



UNIVERSITY OF KALYANI  
KALYANI, NADIA-741235

## SELF STUDY REPORT

SUBMITTED TO  
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL







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**Professor Dr. Malayendu Saha**  
Vice-Chancellor



**University of Kalyani**

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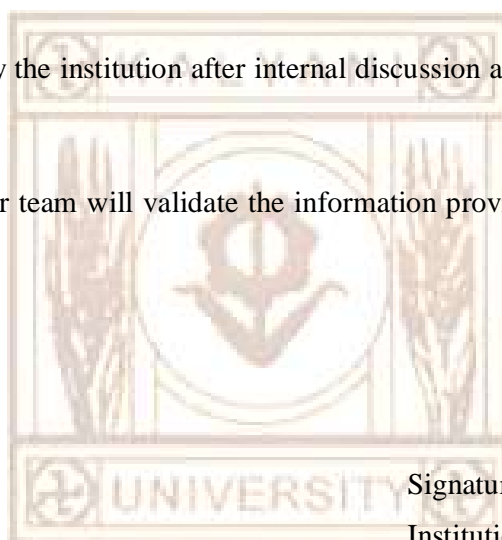
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## Declaration by the Head of the Institution

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussion and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the Peer team visit.



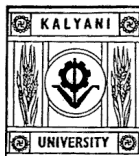
Signature of the Head of the  
Institution with seal:

Place:

Date:



**Professor Dr. Malayendu Saha**  
Vice-Chancellor



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No. VC/F-4/DP/DP-1624/2015

31.12.2015

**The Director,  
National Assessment and Accreditation Council,  
P.O. Box No. 1075, Nagarbhavi,  
Bangalore- 560071  
Karnataka,**

Dear Sir,

It is our pleasure to submit the Self-Study Report (SSR) of the University of Kalyani for the third cycle of re-accreditation by the National Assessment and Accreditation Council (NAAC). Our university performed creditably in two earlier cycles of accreditation, earning “Three Star” status in 2001 and “Grade B” (CGPA 2.67 on a 4-point scale) in 2008. Preparation for assessment and accreditation by the NAAC is an exercise which encourages us to examine our strengths and assess our weaknesses. Such an exercise helps us to identify the areas where more improvements are needed. The NAAC Peer Team recommendations helped us, on two earlier occasions, to look at ourselves with a degree of dispassionate objectivity which motivated us to move forward.

This SSR has various parts, as per the NAAC guidelines. The first part consists of the University Profile which reflects the overview of the university and its activities, focusing on post accreditation. The second part of the SSR presents criteria wise inputs. In the third section activities of the departments under all faculties, centers and extension activities are compiled. Required documents are included in section four. The University has taken major steps to improve its infrastructure and academic ambience during the period.

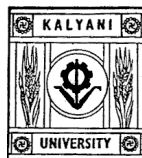
The undersigned would like to thank each one of the university community for their sincere efforts in preparing this SSR. Our efforts would prove to be fruitful if you would kindly find it suitable and appropriate for evaluations.

**Professor Dr. Malayendu Saha**





**Professor Dr. Malayendu Saha**  
Vice-Chancellor



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No. VC/F-4/DP/DP-1620/2015

30.12.2015

## **Statement of Compliance**

(Central and State University)

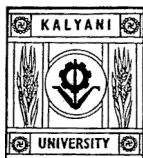
This is to certify that University of Kalyani has complied with all the provisions of the following regulations governing it:

- UGC Regulations on minimum Qualifications for Appointment of Teachers and other Academic staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education 2010 and further amendments, if any, notified by the UGC.
- UGC Regulation on Minimum Standards and Procedure for the Awards of M. Phil, Ph. D. Degree, Regulations 2009 and further amendments, if any notified by UGC.
- UGC (Affiliation of Colleges by University) Regulations 2012 and further amendments, if any, notified by the UGC.

Any false or misleading information provided by the institution, will be viewed seriously by NAAC and the accreditation given is liable to be withdrawn.

**Professor Dr. Malayendu Saha**





**University of Kalyani**  
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### ***The Historical Background***

In the early 1950s, the township of Kalyani was developed as the brainchild of Dr. Bidhan Chandra Roy, the then Chief Minister of West Bengal. Kalyani was planned to grow as a satellite town in the long-term perspective plan of the Calcutta Urban Agglomeration. For planned development of the town, the need for emphasising education and health infrastructure was duly emphasised in the master plan and the University of Kalyani was established in November 1960, as a unitary university with the faculties of Arts, Science, Education, and Agriculture.

Since inception, the University marked its progress and attracted students of the region as well as many eminent scholars of the country. However, in its early stage of growth, the University was bifurcated in the year 1975 when its Faculty of Agriculture evolved into a full-fledged agricultural university, named as Bidhan Chandra Krishi Viswavidyalaya, which was established in the Mohanpur campus.

Just after the bifurcation the University of Kalyani was left with 12 teaching departments under the faculties of Arts and Science only. It started reorganising its activities and by the end of 1970s, the University could introduce four more departments, namely History, Political Science, and Commerce under the Faculty of Arts, which was converted to Faculty of Arts and Commerce, and Bio-chemistry & Bio-physics under the Faculty of Science. Since then, the University has been continuously expanding its area of studies. In the 1980s, the Department of Environmental Science (under Faculty of Science), and the Department of Modern Languages (under Faculty of Arts & Commerce) were started. In the decade of 1990s, three more departments were started, namely, Folklore, Library Information Science (Faculty of Arts & Commerce) and Computer Science (Faculty of Science).

Till 1998, the University was a unitary university offering also undergraduate teaching. In 1998 it became an affiliating university with its territorial jurisdiction extended to the districts of Nadia and Murshidabad, and it affiliated 37 colleges, earlier under Calcutta University. Since then the undergraduate teaching programmes at the University were discontinued and were left to its affiliated colleges.

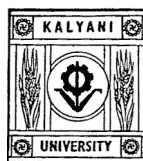
In the early part of the first decade of this century, the University introduced 6 new departments, namely, Business Administration, Microbiology, Geography, Molecular Biology & Bio-Technology, Physiology, and Rural Development & Management. It has also introduced the Faculty of Engineering, Technology, and Management, with the departments of Business Administration, Computer Science & Engineering, and Rural Administration & Management.

During the last five years, a new Faculty of Music and Fine Arts consisting of the Department of Visual Arts, one new Department in the Faculty of Engineering viz Department of Engineering and Technology Studies, one in the Faculty of Science (Department of Environment and Ecology), and four in the Faculty of Arts and Commerce (Departments of Hindi, Philosophy, Sanskrit, Rural Development Studies) have been established. In addition research centres such as, Envis, Centre for Bengali Diaspora, Centre for Woman Studies, Rabindra Adhyan Centre, Centre for Cultural Studies etc have also been introduced during the last five years. Besides, two of the earlier existing centre have been upgraded into two departments viz. the Department of Adult, Continuing Education and Extension Studies and the Department of Engineering and Technological Studies. Both of these are providing excellent student support in addition to its commendable works. One more faculty, namely Law, is in the process of crystallization.

Besides the teaching and research departments, the University has also affiliated several institutes which are providing extension related services through several certificate courses and diplomas.

To mark the stages of growth of the University a list of the departments and their years of establishment under the four faculties are given below.

Arts & Commerce			Science		
1	English	1961	1	Physics	1961
2	Economics	1961	2	Chemistry	1961
3	Sociology	1964	3	Zoology	1961
4	Bengali	1971	4	Botany	1961
5	History	1978	5	Mathematics	1966
6	Political Science	1978	6	Statistics	1973
7	Commerce	1978	7	Biochemistry & Biophysics	1979
8	Modern Languages	1980	8	Environmental Science	1985
9	Folklore	1990	9	Microbiology	2001
10	Library Information Science	1991	10	Geography	2003
11	Rural Development Studies	2003	11	Molecular Biology & Bio-Technology	2003
12	Philosophy	2010	12	Physiology	2005
13	Sanskrit	2011	13	Environment and Ecology	2010
14	Hindi	2015			
Engineering, Technology & Management			Education		
1	Computer Science	1992	1	Education	1961
2	Business Administration	2001	2	Physical Education	1963
3.	Engineering & Technology	2010			
	Fine Arts and Music Department of Visual Arts	2010			



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### *The Location and the Local Context*

#### **Location**

The University is situated in the municipal area of Kalyani, a sub-divisional town in Nadia district of the state of West Bengal. Located in the eastern side of the state, the district is in the border of Bangladesh and the border is about 40 kilometres from the town. Kalyani is well connected by railway and roadway and is about 60 kilometres by road from Kolkata. There is also a railway station (Kalyani Ghoshpara) adjacent to the University Campus for the local trains plying in Kalyani town from the Kalyani Main railway station. On the western side of Kalyani flows the river Ganges and on the eastern side is the National Highway 34, which connects the State from the south to north. There is also a state expressway connecting Kalyani with Barrackpore, the district town of the adjacent district of North 24 Parganas.

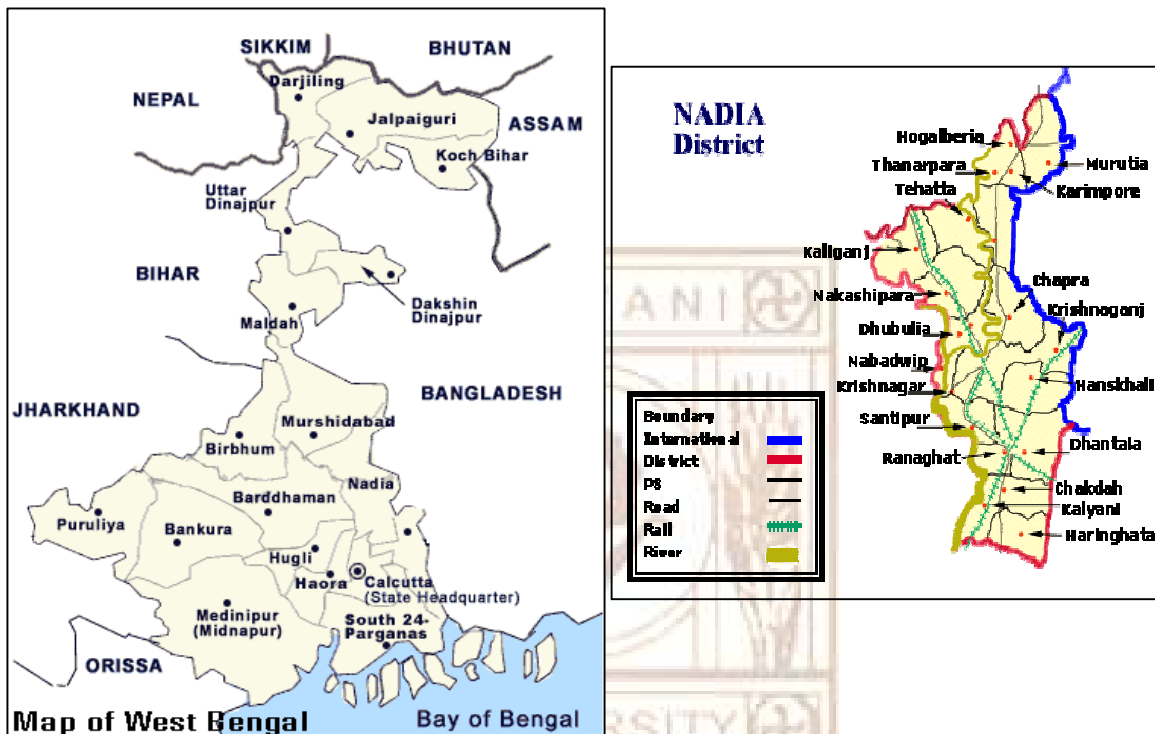
Kalyani, is a relatively young town. During the Second World War, Kalyani was the site of a military airbase. Hangars and other reminders of the air-field are still visible in the 'A' Block and in some areas around the University. In 1950 this town was built in a short time in order to host the Indian National Congress meeting. This planned town owes its existence and development to the then Chief Minister of West Bengal, Dr. Bidhan Chandra Roy. Kalyani is often referred to as his daughter. Kalyani is a planned town and an important centre of education. It can be considered a 'university town' with two universities – Kalyani University, and Bidhan Chandra University of Agriculture, and many colleges. It is also the proposed site for West Bengal University of Technology (WBUT), and Indian Institute of Science Education and Research (IISER). The Netaji Subhas Open University is also building its campus in Kalyani. The recently established S.K. Acharya Institute of Law has begun functioning in the campus of Kalyani University. This town has several good schools. Among Bengali medium schools are Kalyani University Experimental High School, Pannalal Institution and Bidhan Memorial Girls High School. Kalyani Central Model School, Springdales School and Julien Day School are the best known among the English medium ones.

Kalyani, with its underground drainage systems, well built tree lined avenues and lush green parks, certainly emerges as a clean and green town. It has a big stadium conducting both football and cricket matches. The serene beauty of Kalyani simply enthralles the mind and soul. Far from the hustle and bustle of big cities and yet providing all the amenities of life, Kalyani has very quickly registered itself as a self-sufficient township. Its gradual development continued as a notified area. After 1996 it was upgraded to a municipality. It is now a subdivisional town in the district of Nadia. The population of Kalyani notified area is above eighty thousand. The residents are a varied lot. Doctors, teachers, education, management and engineering professionals are all represented in large numbers. Government officers, Army personnel and other service professionals find Kalyani an attractive town to make their homes.

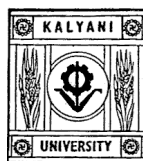
#### **Local Context**

Though located in the urban municipal area of Kalyani, the rural context of the University cannot be overlooked. The University operates in a rural backdrop with its principal area of catchments lying in the vast rural areas of Nadia and Murshidabad. The rural population in Nadia is 77.36 percent and the same is 87.84 percent in Murshidabad. Both Nadia and Murshidabad are situated in the border of

Bangladesh. As per the list of educationally backward districts of the Planning Commission, Murshidabad, with literacy rate 55.05 percent, is an educationally backward district. It may also be mentioned that a sizeable percentage of population of these two districts belongs to SC and other backward and socio-economically weaker communities. The percentage of SC is 29.01 and ST is 2.40 percent in Nadia. The same values for Murshidabad are 13.52 and 1.75 percents respectively. The majority of the population (over 64 percent) of Mursidabad belongs to the minority sections. The University operates in a context of urban-rural divide, and caters to a large number of students coming from rural areas. Thus, maintaining a balance between the two is a big challenge for the University. The University is also providing access to higher education to many first generation learners among its students.







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### ***The Mission Statement***

Pursuant to the legislative mandates of 1960, 1981 and 2012 of the State Assembly of West Bengal, the University of Kalyani is committed to achieving excellence as a state university with the following mission –

#### **The Mission**

The mission of the University of Kalyani is to contribute to society through the pursuit of education, learning, and research ensuring quality, excellence and access.

#### **The Core Values and Statement of Principles**

The University has set its principles in terms of the following core values —

- Access and Entitlement
- Equity, Justice and Freedom from Discrimination
- Freedom of Thought and Expression

#### **Institutional Aims and Objectives**

The institutional aims and objectives within the set of core values as the guiding principles are to –

- contribute to society through the pursuit, dissemination, and application of knowledge
- provide an wide range of academic subjects in major disciplines
- establish close inter-relationship between teaching, scholarship, and research
- provide education that enhances the learning ability of students throughout the life
- encourage the quest for knowledge
- harmonize broader academic activity and local community
- create avenues for innovative partnerships with business, and voluntary social organisations
- create awareness for sustainability and the relationship with the environment
- create consciousness of basic human rights and entitlements
- create opportunities for broadening the experience of students and staff through participation in sports, music, drama, the visual arts, and other cultural activities
- focus on the importance of rural economy and the need and aspirations of the youth in the region,
- evolve into a centre of excellence and expanding its area of studies.
- provide academic guidance and leadership to its affiliated degree colleges
- serve to the special need of the region
- focus on uplifting the socio-economic condition of the people and rising aspiration for upward social mobility among the youth.

- keep abreast with the development in various subjects and disciplines
- establish connectivity between natural and social sciences
- promote inter-disciplinary research and to set a balance between basic and applied research portfolios
- extend its reach and ensure access
- proceed towards quality education and excellence



**STRENGTH, WEAKNESS, OPPORTUNITY AND CHALLENGE (SWOC) ANALYSIS****Strength:**

- (1) Encouraging and responsive administration which is largely decentralized.
- (2) Total transparency in Admission, Evaluation and Appointments.
- (3) Dedicated Teaching and non-teaching staff.
- (4) Excellent work culture: Everything starts and finishes in time. Academic calendar is strictly followed. All lectures/labs/tutorials are held. Results are declared in time following academic calendar.
- (5) A beautiful and clean and green campus isolated from local din and bustle ideal for learning.
- (6) Very good ambience for teaching, research and extension activities. Excellent Teacher-Student-Employee relationship.
- (7) Very good library and computing facilities
- (8) Very good laboratory and instrumental facilities
- (9) Excellent extension activity based on the needs of the local people
- (10) Excellent students' support, sports and cultural facilities.
- (11) An 'Equal Opportunity' Institution where justice is neither denied nor delayed to any single stakeholder.
- (12) ICT-enabled teaching learning process.

**Weakness:**

- (1) Lack of enriched campus life; the major reason being its closeness to Calcutta.
- (2) Lack of good Industrial collaboration.
- (3) Lack of financial solidarity- like any other academic institution which prefers to walk straight.
- (4) Lack of good number of courses on non-conventional subjects.
- (5) Lack of good connectivity to illustrious alumni.

**Opportunity:**

- (1) Vast campus with possibilities for future expansion.
- (2) Brilliant academic surrounding studded by National institutions like IISER Kolkata, IIT, IGMB, Medical College, Agricultural University and closeness to premier research institutions and Universities of the country eg. IICB, IACS, Bose Institute, Indian Statistical Institute, Saha Institute, Asiatic Society, Calcutta University, Jadavpur University etc for potential academic collaboration.
- (3) High population density in the region supporting excellent human resource.
- (4) Strong connectivity to the local community for extending our reach and ensuring access as well as concentrating our attention to local economy.
- (5) Resourceful Alumni.
- (6) Proximity to a metropolitan city Kolkata.

**Challenge:**

- (1) To expand the Gross Enrollment Ratio (GER) by the year 2020 particularly through student enrollment from weaker sections of the society beyond the reservation limit.

- (2) To significantly increase job-oriented diploma/certificate courses for the local population.
- (3) To introduce PG courses and research in cutting edge areas of humanities, science and technology as well as cultivation of greener technology.
- (4) To provoke self-sustenance through proper utilization of resource.
- (5) To foster global competency and life-long learning to our students.
- (6) To strengthen the involvement of our alumni.
- (7) To increase job counseling for students.
- (8) To increase the parental involvement in career building.



## Recommendations for Quality Enhancement of the Institution and Actions taken

1. The University may think of introducing more twinning and dual degree programmes with overseas universities.

**Action taken:** The University's efforts in this regard are yet to materialize.

2. The University may take initiative for forming grievance redressal cell. The career guidance and counseling as well as the placement cell need to be strengthened.

**Action taken:** A grievance redressal cell is in place and functioning effectively. The career guidance and counseling cell has been providing excellent support to our students. The placement cell is now strengthened and it organizes various placement related programmes throughout the year.

3. The University may take initiative for establishing an Educational Multimedia Research centre, FM radio for student participation and community orientation, printing and publications division to release research journals.

**Action taken:** Educational Multimedia Research Centre is yet to be established in the newly created E-technology centre. Initiatives for creating such a laboratory have progressed significantly. In addition, some research on multimedia (Audio and Video both) is being pursued by some researchers.

Regarding FM radio station, our appeal to the Ministry for its approval is awaited.

**Printing and publication** department has been revitalized through purchase and installation of Modern Offset printing with digital pre-press and one journal related job is printed in the press.

4. There is a need to provide virtual class room facilities in DODL and Create e-learning resources in almost all subjects.

**Action taken:** These facilities are now provided in token form in DODL. However, these will be further strengthened once the building for DODL is completed. Soft Copies of most of the study materials are now supplied to the students

5. The university need to switch over entirely the semester system and adopt choice based credit system in due course of time.

**Action taken:** The University has switched to semester system in all its post-graduate departments and CBCS is in place in few departments.

6. Initiate to offer bridge courses for educationally disadvantaged student and make special provision for slow and advance learners.

**Action taken:** Bridge courses are in place in few departments, in particular in DODL.

7. The University may introduce special health packages for teachers and students.

**Action taken:** The University could not implement this because of financial constraints. However, the Health centre facilities have been extended significantly including purchasing a modern ambulance to carry quickly its patients to nearby sophisticated hospitals. Moreover, the University is an institutional member of the Students' Health Home in Kolkata

8. Need to improve collection of feedback from teachers, students, parents and alumni.

**Action taken:** Feed backs are collected from various stake holders and processed by IQAC.

9. The University should take initiatives for establishing advanced courses through ODL mode.

**Action taken:** This again is halted for space constraints. It will be immediately effected after the construction of the building.

10. Consider establishing Centre for Women's studies, Centre for Epoch making social thinkers. Centre for Studies on social inclusion and exclusion policies, Centre for South Asian studies and Plant Clinic.

**Action taken:** Women's study centre is working effectively. In addition, Centre for cultural studies, centre for Bengali Diaspora, Rabindra Study Centre are contributing well to our department. The activities of these centers are compiled separately.

11. Courses like Applied Botany, Seed Science and technology, Food science and Nutrition, Food Technology, Electronic media, Geo-informatics, Social Work, Music and Drama may be started under the current plan period.

**Action taken:** Diploma in Seed and Nursery Management, Diploma in Soil and Plant Health Management, Diploma in Plant Protection, Diploma in Financing and Agree Business management, Diploma in Ceramic Design, Diploma in Multimedia Animation, Diploma in Fine Arts and Printing, are introduced in an affiliated Centre in Kalyani In addition, few new degree courses included are: M. A. in Sanskrit, Philosophy, Hindi, M.A. in visual Arts, M.A. in Adult Education and Extension, M. Phil in Women Studies, Five year integrated M.Sc. course in Statistics, Five year Integrated course in M.LISc,

12. The University may think of further strengthening by adding a few courses in Engineering and Technology and management faculties by establishing Institute of Engineering and Technology Institute of Management study with more PG diplomas and electives for getting jobs in different streams.

**Action taken:** Few new courses introduced are: M. Tech in Communication engineering, M. Tech in Environmental management;

13. More endowment chairs shall be created through cultural exchange.

**Action taken:** The efforts in this regard unfortunately did not materialize due to lack of sponsorship.

14. The facilities of the Guest House shall be enhanced to meet the basic amenities of examiners and resource persons coming to the university.

**Action taken:** The facilities in the guest house have been thoroughly extended. In addition, building of a new guest house of International standard (15000 Sq Ft) is in progress and expected to be completed soon.

15. The surveillance system shall be improved with modern equipment and monitoring unit.

**Action taken:** The surveillance system, both internal and external, is now outsourced to Ex-Military organization which monitors the security system through CCTV, Petrol Car etc.

16. Interdisciplinary subjects require satellite images, CDROM databases, Audio-Video capturing equipment, display and public address systems shall be procured and distributed.

**Action taken:** Some of these are now being done effectively through the introduction of Smart Class rooms in several departments. In the Departments of Computer Science, Engineering and Technological Studies, and Business Administration these are rigorously followed.

17. Streamlining the MoUs for their real application to the growth of the University.

**Action taken:** We have been able to effectively convert the MoUs into actual participation of our researchers and students. Some of the participating organizations are included below.

KTH, Royal Institute of Technology, Sweden (Coordinating Institute ), Ghent University, Belgium , Institute of Chemical Technology, Prague, Czech Republic, Karlsruhe University of Applied Sciences, Karlsruhe, Germany, Katholieke Universiteit Leuven, Belgium (sub Coordinator), Politecnico di Torino, Italy (sub Coordinator), TU Delft, The Netherlands, University de Girona, Spain, Universitat Gottingen, Germany

Some of the national institutions include: Anna University (sub Coordinator): Indian Institute of Technology, Guwahati ; Indian Institute of Technology, Roorkee; National Law School of Indian University ,Bangalore.; Tamil Nadu Agricultural University, University of Pune.

The activities are detailed separately.



18. The finance department of the University may fully be computerized its processes and avoid the duplication of works.

**Action taken:** The Finance Department is now 75% computerized and the rest is expected to be done shortly.

19. More budget allocation is needed for the library and the staff required to maintain the library, a higher level be recruited.

**Action taken:** There has been 85% increase in the library budget.

20. The OPAC may be made fully operational with bar codes and bar code readers for transactions. The students shall be permitted to have open access to the stack.

**Action taken:** OPAC has been introduced and it is operational with bar code readers. The students are allowed access to open stacks, as well as computer searching.

21. The library shall be kept open between 8AM and 8PM during working days, 8AM and 10PM before/during examinations and at least 8 hours during holidays.

**Action taken:** The library is open 9 A.M.-8 P. M. (Monday-Friday), 10 A.M-5 P.M.( Saturday), 9 A.M.-8 P. M (during Exam time)

22. Charges for Internet usage at the information centre may have to be reduced to provide more equity and access.

**Action taken:** This is now completely free. Moreover, the research scholars' hostels and students' hostels are given free access 24x7 through Wi-Fi connectivity.

23. All hostel need complete modernization in terms of electrical and sanitation facilities.

**Action taken:** In all hostels modular kitchen system, tiled dining and kitchen, water purification cum cooler, modern kitchen facilities, inter- and intra-hostel sports and cultural activities have significantly improved. However, more remains to be done.

24. Students at PG level require well-furnished accommodation with all basic amenities.

**Action taken:** Students at PG level and Research Scholars are now provided with better accommodation facilities such as better kitchen-dining facilities, internet connectivity in every room, telephone facility, improved library facility, sports facility etc.

25. Teachers should be encouraged to participate in national and International Conferences and to publish articles in peer reviewed journals.

**Action taken:** Teachers, students and researchers are encouraged to take part in National and International Symposia through unassigned grant. In addition a significant number of participation is sponsored through DST-PURSE programme for the last three years.

26. Competitive examination coaching center and remedial classes with spoken English coaching may be started.

**Action taken:** The University has established an IAS training centre in the campus in association with the Nadia Civil Service Academy, Communicative English teaching Center, Coaching Center for SC-ST students; and one E-tech center for developing soft skill in ICT in our students

27. Statutes and ordinances may be revised to keep pace with current academic scenario.

**Action taken:** The University Act has been revised through legislation in the year 2012. A revised Statute has been submitted to the Government for approval. Most of the relevant ordinances have been revised thoroughly keeping in view the current academic scenario.

28. IQAC may be revitalized and activated as per NAAC guidelines.

**Action taken:** It has been revitalized and activated as per NAAC guidelines. Annual IQAC reports are being regularly published and their recommendations considered.

**Section B****1. Profile of the University****1. Name and Address of the University**

Name :	<b>UNIVERSITY OF KALYANI KALYANI, NADIA, WEST BENGAL</b>	
Address :		
City : <b>KALYANI</b>	Pin : 741235	State : WEST BENGAL
Website:	<b>http://www.klyuniv.ac.in</b>	

**2. For communication :**

Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Vice-Chancellor	Professor Malayendu Saha	O: 033-25828690 R: 033-25828340	9830281897	033-25828282	m_saha2@rediffmail.com
Pro Vice-Chancellor 9s0	---	O: R:	---	---	---
Registrar	Dr. Malay Kumar Samanta	O: 03325822505 R: 033-25025762	8670222270	033-25822505	registrar@kluniv.ac.in
Steering Committee/IQAC Co-ordinator	Professor Jyotsna Kumar Mandal	O:033-25809617 R: 033-25736302	9434352214	033-25828282	jkm.cse@gmail.com

**3. Status of the University:**

State University

State Private University

Central University

University under Section 3 of UGC (Deemed University)

Institution of National Importance

Any other (Please specify)

✓

**4. Type of University :**

Unitary

Affiliating

✓

**5. Source of funding:**

Central Government

State Government

Self-financing

Any other (Please specify) :

**DST, Govt. of India**

✓
✓
✓

**6. a. Date of establishment of the university : 01.11.1960.**

b. Prior to the establishment of the university, was it a /an

i. PG Centre Yes ☐ No ☐ii. Affiliated College Yes ☐ No ☐iii. Constituent College Yes ☐ No ☐
☐

- iv. Autonomous College Yes ☐ No ☐
- v. Any other (Please specify) .....  
if yes, give the date of establishment.....(dd/mm/yy)

\* Not applicable

**7. Date of recognition as a university by UGC or any other national agency:**

Under Section	dd	mm	yyyy	Remarks
i. 2f of UGC*	25	03	1965	Recognised by UGC as established prior to 1972
ii. 12B of UGC*	25	03	1965	Recognised by UGC as established prior to 1972
iii. 3 of UGC #				
iv. Any other ^ (Specify)				

\* Enclose certificate of recognition : **Enclosed**

# Enclose notification of MHRD and UGC for all courses / programmes / campus / campuses.

^ Enclose certificate of recognition by any other national agency / agencies, if any.

**8. Has the university been recognized**

- a. By UGC as a University with Potential for Excellence?

Yes ☐ No ☒

if yes, date of recognition : .....(dd/mm/yyyy)

- b. For its performance by any other governmental agency?

Yes ☐ No ☒

if yes, Name the agency.....and  
date of recognition.....(dd/mm/yyyy)

**9. Does the university have off-campus centres?**

Yes ☐ No ☒

if yes, date of establishment : .....(dd/mm/yyyy)

date of recognition : ..... (dd/mm/yyyy)

**10. Does the university have off-shore campuses?**

Yes ☐ No ☒

if yes, date of establishment : .....(dd/mm/yyyy)

date of recognition : ..... (dd/mm/yyyy)

**11. Location of the campus and areas:**

	Location*	Campus area in acres	Built up ar in sq.mts
i. Main campus area	Urban	346.47	
ii. Other campuses in the country		---	
iii. campuses abroad		---	

\* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify)

If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

**12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.**

- ☒ Auditorium/seminar complex with infrastructural facilities

Name	capacity	facilities	area
A.P.C Hall	150	AC, Audio, Video	800 sqft
Vidyasagar Sabhagriha	275	AC, Audio, Video	2000 sqft
Jagadish Bose Hall	100	AC, Audio, Video	600 sqft
CSE Seminar	100	AC, Audio, Video	500 sqft
MBA	80	AC, Audio, Video	400 sqft
Library	150	AC, Audio, Video	700 sqft
Adult Education Deptt.	20	AC, Audio, Video	300 sqft
Chemistry Deptt.	100	Audio, Video	450 sqft
Physics Deptt.	100	Audio, Video	470 sqft
Zoology Deptt.	75	Audio, Video	510 sqft

- ☒ Sports facilities

\* Playground  
Eleven Playgrounds are available

- ☐ Swimming pool

\* Nil

- ☒ Gymnasium

\* **One**

Any other (Please specify)

- ☒ Hostel

\* Boys' hostel  
Number of hostels : **Six**

- ☒ Number of inmates

**560**

- ☒ Facilities :

**Modular kitchen, Modern Common Room with LED TV  
Wi-Fi facility Play ground Library Leisure activities**

- ☒ Girls' Hostel

- Number of hostels : **Four**
- Number of inmates : **421**
- Facilities Modular kitchen, Modern Common Room with LED TV  
Wi-Fi facility, Library, Leisure activities

Name of the Hostel	Total Number of Rooms	Total Intake Capacity	Per Room Occupation
Dwijendralal Bhawan (PG-I)	64	85	2 Bed/Room 1 Bed/Room
Vivekananda Bhawan (PG-II)	64	85	2 Bed/Room 1 Bed/Room

Name of the Hostel	Total Number of Rooms	Total Intake Capacity	Per Room Occupation
Meghnad Saha Bhawan (PG-III)	64	85	2 Bed/Room 1 Bed/Room
Jagadish Ch. Bhawan (Banyan)	120	140	2 Bed/Room 1 Bed/Room
Radhakrishnan Bhawan (BT Mens')	34	100	3 Bed/Room
Satyendra Nath Bhawan (RS Mens')	60	65	1 Bed/Room
Matangini Bhawan (LH-I)	64	134	2 Bed/Room 3 Bed/Room
Nivedita Bhawan (LH-II)	72	152	2 Bed/Room 4 Bed/Room
Lilabati Bhawan (RS Womens')	40	35	1 Bed/Room
Terresa Bhawan (extension of LH-II)	60	100	1/2 Bed/Room

\* **Working Womens' hostel**

i. Number of hostels : **NIL**

ii. Number of inmates

iii. Facilities

☐ Residential facilities for faculty and non-teaching: limited quarter facilities are available

☐ Cafeteria Four cafeteria are running in the campus

☒ **Health centre** - Nature of facilities available - inpatient, outpatient, ambulance, emergency care facility, etc.

Three doctors, two compounders, outdoor facility, four support staff, one ambulance, available.

Few other facilities are :

**Free Medicine Distribution:** Some cheaper medicines are served free of cost to the beneficiaries, subject to availability.

**SFDU :** It runs 'Self-Financed Diagnostic Unit', comprising of X-ray Unit & Pathology Unit.

- 'Self-Financed X-ray Unit': Runs approximately on 'no Profit, No Loss' basis, A 65mA X-ray Unit catered service to 74 patients with total 89 exposures @ 70/film.

- 'Self-Financed Pathology Unit' : Total of 30 basic pathological investigations are done approximately at 'No Profit. No Loss' basis. Reports are usually served on the same day. Total No. of Investigations done in the FY 201314 are :

☐ Facilities like banking, post office, book shops, etc.

One Branch of Bank of India, Two ATM machines, one post office is available.

☐ Transport facilities to cater to the needs of the students and staff

Two University owned buses, two hired buses are used for the transportation

☐ Facilities for persons with disabilities

Lift and ramp facilities in the Administrative building and in few other buildings.

☒ Animal house

One Animal House and two green houses are available.

- ☒ Incinerator for laboratories: Not available  
☒ Power house: Three sub-stations of 500 KV, 300 KV and 100 KV  
☒ Waste management facility: Biodegradation of medical waste is done

**13. Number of institutions affiliated to the university**

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce	50	48	02
Law	04		04
Medicine			
Engineering			
Education	71	02	69
Management			
Others (Specify and provide details)	5	1 (Ceciculture)	4 (paramedical, Rural development, Animation studies Mass communication)

**14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University**

Yes ☐ No ☒ Number

**15. Furnish the following information:**

Particulars	Number	Number of Students
a. University Departments Under Graduate Post Graduate Research Centres on the campus		
b. Constituent colleges		
c. Affiliated colleges	116	79580
d. Colleges under 2 (f)	02	1114
e. Colleges under 2 9f) and 12B	38	66517
f. NAAC accredited colleges	21	
g. Colleges with Potential for Excellence (UGC)	01	791
h. Autonomous colleges	Nil	
i. Colleges with Postgraduate Departments	07	630
j. Colleges with Research Departments	05	35
k. University recognized Research Institutes/Centres	01	40

**16. Does the university confirm to the specification of Degrees as enlisted by the UGC?**

Yes ☒ No ☐

If the university uses any other nomenclatures, please specify.

**17. Academic programmes offered by the university departments at present, under the following categories:**

List attached

Programmes	Number
UG	05

Programmes	Number
PG	33
Integrated Masters	02
M.Phil.	07
Ph.D	30
Integrated Ph.D	0
Certificate	44
Diploma	18
PG Diploma	03
Any other (please specify)	
<b>Total-</b>	<b>142</b>

18. Number of working days during the last academic year:

221

19. Number of teaching days during the past four academic years.

181

180

183

181

('Teaching days' means days on which classes were engaged. Examination days are not to be included)

20. Does the university have a department of Teacher Education?

Yes

☒

No

☐

If yes,

a. Year of establishment 1963.

b. NCTE recognition details (if applicable) Notification

**No. : ERC/NCTE/APE00236/M.Ed/Revised**

**Order/2015/32550**

**Date: 30-05-2015**

c. Is the department opting for assessment and accreditation separately?

Yes

☐

No

☒

21. Does the university have a teaching department of Physical Education?

Yes

☒

No

☐

If yes,

a. Year of establishment : 1963

b. NCTE recognition details (if applicable) Notification

**No.: ERC/NCTE/APE00282/BPEd/Revised**

**Order/2015/32477**

**Date: 30-5-2015**

c. Is the department opting for assessment and accreditation separately?

Yes

☐

No

☒

**22. In the case of Private and Deemed Universities, please indicate whether professional programmes are being offered?**

Yes ☐ No ☐ Not available

If yes, please enclose approval/recognition details issued by the statutory body governing the programme.

Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken there upon. No

**23. Number of positions in the university**

Positions	Teaching faculty			Non-teaching staff	Technical staff
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC/University/State Government	90	76	145	642	99
Recruited	83	53	58	344	47
Yet to recruit	07	23	87	298	52
Number of persons working on contract basis	--	--	10	138	22

**24. Qualifications of the teaching staff**

Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
Permanent teachers							
D.SC./D.Litt.	05	00	00	01	00	00	06
Ph.D	69	17	22	08	47	16	179
M.Phil.	00	00	00	00	00	00	00
PG	00	00	02	01	05	01	09
Temporary teachers							
Ph.D.							
M.Phil.							
PG							
Part-time teachers							
Ph.D/	60	12	18	07	24	16	137
M.Phil.							
PG							

**25. Emeritus, Adjunct and Visiting Professors.**

	Emeritus	Adjunct	Visiting
Number	07	02	106

**26. Chairs instituted by the university:**

	Chairs
School/Department	Nil



**27. Students enrolled in the university departments during the current academic year, with the following details :**

Students	UG	PG	Integrated Masters	M.Phil.	Ph.D.	Integrated Ph.D.	D.Litt./D.Sc.	Certificate	Diploma	P.G. Diploma
	*M	*M	*M *F	*M	*M	*M *F	*M *F	*M *F	*M *F	*M *F
From the state where the university is located	148 102	1151 924	23 13	27 22	155 80		03 0	554 245	01 0	05 01
From other states of India	22 6									
NRI students		3								
Foreign students					13					
<b>Total</b>	<b>278</b>	<b>2078</b>	<b>36</b>	<b>49</b>	<b>248</b>	<b>--</b>	<b>03</b>	<b>799</b>	<b>01</b>	<b>06</b>

\* M - Male \*F - Female

**28. 'Unit cost' of education :**

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

- (a) including the salary component = **Rs. 1.31 lakh**  
 (b) excluding the salary component = **Rs. 0.32 lakh**

**29. Academic Staff College : Not available**

- ☐ Year of establishment .....
- ☐ Number of programmes conducted (with duration)
- ★ UGC Orientation
- ★ UGC Refresher
- ★ University's own programmes

**30. Does the university offer Distance Education Programmes (DEP)?**

Yes ☒ No ☐

If yes, indicate the number of programmes offered: **Six**

Are they recognized by the Distance Education Council?

Yes

**31. Does the university have a provision for external registration of students?**

Yes ☐ No ☒

If yes how many students avail of this provision annually?

**32. Is the university applying for Accreditation or Re-Assessment? If Accreditation, name the cycle.**

Accreditation : Cycle 1 ☐ Cycle 2 ☐ Cycle 3 ☒ Cycle 4 ☐

Re-Assessment: ☐

**33. Date of accreditation\* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)**

Cycle 1: **1: 06-2001**. Accreditation outcome/Result **III Star**

Cycle 2: **16-09-2008**. Accreditation outcome/Result **B-Grade** (CGPA 2.67)

Cycle 3: ..... (dd/mm/yyyy), Accreditation outcome/Result.....\*

Cycle 4: ..... (dd/mm/yyyy), Accreditation outcome/Result.....\*

Kindly enclose copy of accreditation certificate(s) and peer team report(s) : **Attached**

**34. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated/constituent/autonomous colleges under the university.**

Yes

**35. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).**

IQAC :

- |       |                    |
|-------|--------------------|
|       | <b>05.06.2009.</b> |
| (i)   | <b>02.07.2014.</b> |
| (ii)  | <b>03.09.2015.</b> |
| (iii) | <b>04.07.2009.</b> |
| (iv)  | ..... (dd/mm/yyyy) |

**36. Any other relevant data, the university would like to include :**

The University has been able to achieve significant developments in the areas of infrastructure, human resources, scientific equipment and research facilities, outreach and extension activities, research output, environmental concerns, financial management, linkage with established institute of learning, administrative reforms and others. These are briefly mentioned below:

**Outline of major changes occurred during the evaluation period:**

**Teaching & Learning:**

1. Shifting from Annual to Semester system and continuous evaluation in all PG programmes.
2. Coursework, CBCS and Credit transfer system introduced in all Ph.D. programmes.
3. Compulsory project work in all PG programmes.
4. New PG courses in Sanskrit, Philosophy, Hindi.
5. Faculty of Fine Arts started with new Department of Visual Arts.
6. M.Tech in Communication Engineering introduced.
7. Integrated Masters Course in Statistics, Library Science (MLISc) introduced.
8. Ph.D. in Communication Engineering, Visual Arts, Adult Education and M.Phil in Women Studies introduced.
9. Conversion of two centres to two departments (Department of Engineering and Technological Studies; Department of Adult, Continuing Education and Extension)
10. Opened four new centres : Women Studies, Bengali Diaspora, Cultural Studies, Rabindra Studies.
11. Eight Smart Class rooms introduced so far and the rest is ongoing.
12. Student exchange through various MoUs introduced

**Research:**

1. Construction of a Central Instrumentation Centre (1950 sq ft) for housing sophisticated equipments.
2. Construction of an Animal House (1800 sq ft)
3. Construction of two Green Houses
4. Purchase of scientific equipment for nearly ten crores
5. Introduction of Distinguished Lecture series by academic leaders of the country
6. Recognition of quality research by giving awards to our researchers.
7. Increased mobility of our researchers through Erasmus Mundus programme
8. Substantial increase in number and quantum of support for sponsored research work (more than 20 crores as against eight crores in 2008)
9. Increased access to e-journals (more than 18000)
10. Free internet (Wi-Fi) connectivity in each room of the Research Scholars' Halls of residences
11. Substantial increase in publication output (3934 against 1729 in last report)
12. Substantial increase in Institutional H-index: 44 against 21 in 2008
13. Recognition of research output by the DST, Govt of India through PURSE grant.

**Infrastructure:**

1. Construction of a composite building for the Department of Molecular Biology & Biotechnology, and Department of Microbiology (4250 sq ft)
2. Construction of a composite building for the Department of Physiology, and Department of Geography (9010 sq ft)
3. Construction of a building for the Department of Management & Business Administration (3250 sq ft)
4. Construction of a building for the Department of Engineering and Technological Studies (5550 sq ft)
5. Construction of a building as E-technology Centre (4250 sq ft)
6. Construction of a building as Finishing School for the Department of Computer Science (2250 sq ft)
7. Construction of an Annexed building for the Department of Zoology (1200 sq ft)
8. Construction of two Ladies Hostels
9. Modular Kitchen, Water purifier system, Wi-Fi connectivity in all halls of residences
10. Construction of a building as Student Facility Centre (3500 sq ft)
11. Construction of an Amphitheatre.
12. Construction of a building for DODL (38500 sq ft; ongoing)
13. Construction of a common Lecture Complex (14600 sq ft; ongoing)
14. Construction of an Auditorium of 800 seat capacity (15000 sq ft; ongoing)
15. Construction of an International Guest House (15000 sq ft; ongoing)
16. Thorough renovation of three existing auditoriums
17. Thorough renovation of the Administrative building providing ramp, lift, AC and a corporate look in all sections

18. Modernization of the University Press (Offset printing facility)
19. Modernization of the Health Centre
20. Purchase of new buses, Ambulance and a car (for VIP transportation).

### **Administrative Reforms:**

1. Revision of Act , Statute and Regulations (2012)
2. 100% online admission; strict adherence to reservation policies of the Govt of India and Govt. of West Bengal
3. Changes in Admission policies to all PG [(a) shift from a student ratio of 95:5 (home: external) to 60:40 (home: external); Admission test (OMR-based) for external students] and Ph.D. [through Admission test known as KURAT] programmes.
4. Establishment of Cell for Complaints against Sexual Harassment (CASH)
5. Establishment of Placement Cell
6. Establishment of IAS training centre in collaboration with Nadia District Administration
7. Establishment of Academic Excellence Committee for maintenance of quality
8. Filling up of 64 vacant faculty positions, another 99 in progress
9. Establishment of a Central Purchase Committee
10. Compulsory e-tendering for purchase over Rupees five lakhs
11. Near abolition of advance payment system.
12. Payment through A/c payee cheques/NEFT
13. Establishment of Green Audit and Energy Audit of the campus
14. Extensive beautification of the campus.

### **Extension and Outreach activities:**

1. Creation of NCC-nagar (a permanent place for NCC camps).
  2. Introduction of thirty one new certificate courses for *earning-and-learning* of local people (nearly 800 in every term)
  3. Establishment of IAS training centre
  4. Continuing Library facilities to neo-literates for the sustenance of literacy.
  5. Organization of Blood Donation camps, Plantation programme etc
  6. Camps for free health check-up of needy people of the locality
  7. Different awareness programmes for local women.
- Establishment of a Cricket Coaching Centre in collaboration with Cricket Association of Bengal.

## Executive Summary

Established in the year 1960 as a state university through an Act of the West Bengal Assembly, (replaced in 1981, and subsequently in 2011), the University of Kalyani has progressively evolved into centre of learning in higher education. The Mission Statement of the University spells out the objective as “to contribute to society through the pursuit of education, learning, and research ensuring quality, excellence and access”. Operating in the border district Nadia with a rural backdrop and catering to the need and aspirations of the students for higher education of two educationally backward districts of West Bengal, the University rightly emphasises *Access and Entitlement, Equity, Justice and Freedom from Discrimination, and Freedom of Thought and Expression*, as its Core Values in the Mission Statement. The University has the mission of evolving into a centre of excellence and expanding its area of studies, while focussing on the importance of rural economy and the need and aspirations of the youth in the region, serving to the special need of the region, and uplifting the socio-economic condition of the people and rising aspiration for upward social mobility among the youth. As an affiliating university, the University also emphasises on providing academic guidance and leadership to its affiliated degree colleges

The University now offers postgraduate courses and research programmes under the five faculties, namely, Arts & Commerce, Science, Education, Engineering Technology & Management, and Fine Arts & Music. The affiliated institutions of the University also offer Para-Medical, Engineering, Education, Rural Development and Management courses. In its affiliating function, the University has affiliated 130 institutions across 2 districts of the state.

The University has a well-developed campus of 346.47 acres, located in urban area at the outskirts of the town of Kalyani. The distance of the University from Kolkata is about 60 Km, and it is well-connected by road and railway. There is also a railway station adjacent to the University campus for the local trains plying inside the town.

The University has at present 33 departments offering 142 teaching, research, extension and outreach programmes under the five faculties. Of these 72 are postgraduate teaching and research programmes, and five are at the undergraduate level. In addition, the University has an established Directorate of Open and Distance Learning that offers six postgraduate programmes in distance mode. Further, an affiliated college can choose for undergraduate teaching from among 20 honours and 20 general subjects offered by the University under Science, Arts and Commerce faculties.

There are total 194 permanent teachers on the roll, out of which 179 have doctorate degrees. All teachers are qualified as per the UGC norm. Among the 194 teachers 41 are women. The number of administrative and technical staff is 551. The teacher-staff ratio works out to be 1:2.84, which is quite satisfactory in terms of the norm of teacher-staff ratio.

A sizeable number of the students come from the rural areas of the state. There are also a large number of women students. During the current academic year there are 2392 students pursuing the postgraduate courses of which 71 percent are from rural areas, and 46 percent are women students. The numbers of M.Phil and Ph.D. students in the current year are 49 and 248 respectively. There are also 796 students in diploma and certificate courses.

The University was earlier assessed, and accreditation was obtained from the NAAC in 2001 and rated as three star. Subsequently, in the 2<sup>nd</sup> cycle in 2008 we were rated as B with CGPA 2.67. In the following years, we have made significant developments both along the line of recommendations as well as per the vision of the leadership at this end. These efforts are collected in sections 1-4 of the profile.

The criterion-wise Executive Summary is now given below.

### Criterion I. Curricular Aspects

The University has five faculties, namely faculties of Science, Arts & Commerce, Education, Engineering, Technology & Management, and Music & Fine Arts. Five undergraduate and 35 postgraduate programmes (including two integrated masters) under 33 departments are at present running at the University. The other academic options available at the university departments are 7

M.Phil, and 30 Ph.D. programmes. Besides these, there are 37 certificate course, 2 Postgraduate diploma courses, and a diploma course in Physical Education. There are also some courses running on partially self-financing basis. Out of the total 2687 students, there are 327 students under such self-financing courses. The University is also having agreement with several reputed foreign universities for joint supervision of research degrees on several subjects.

The University also offers 5-year integrated postgraduate programmes in two departments. A Directorate of Distance Education is also being run offering six postgraduate, 7 undergraduate, one postgraduate diploma, and one certificate level courses including various study centers (18). Under the distance education mode, the university is imparting education to nearly 25000 students.

The University had formally published the vision, mission and quality policy and these are reviewed periodically for their continued suitability and effectiveness. All the programs offered by the University reflect this vision and mission. A three stage systematic process has been adopted for design and development of the curriculum. Employability is ensured through the demand based curriculum and need based training. Researchers are provided financial support to present their research work in seminars. The University uses the curriculum developed by UGC, AICTE and other similar bodies for developing and /or restructuring of its curricula. University encourages additional skill oriented programmes. Some programs offered by the University are self financing programs and policies regarding admission are identical, fee structure is enhanced, teacher qualifications are as per UGC regulations. The distance education programmes offered in the University are aimed at working professionals and curricula and syllabi are framed accordingly. In consonance with the peer committees' recommendations, the University has introduced Choice Based Credit System (CBCS) in all the PG programmes. The University introduced some of the unique interdisciplinary programmes. The curricular and syllabi are framed by pooling in the academic / R & D / industry experts from different disciplines. The University revises the regulations, scheme of examinations, curricula and syllabi once in 4 years. University introduced courses on soft-skills, spoken English and communication skills, computer skills and Entrepreneur development with a view to developing skills and offer career training. University encourages the participation of all the stakeholders in planning, implementation and evaluating the academic programmes by collecting the feedback from them.

## **Criterion II. Teaching-learning and Evaluation**

Proper selection of students for admission into various courses, fair recruitment of scholarly and dedicated teachers, and effective teaching-learning process with regular and fair evaluation ensuring transparency are the building blocks of the success of an educational institution. The University selects the students on the basis of previous academic records and entrance tests entirely on online and equal opportunity basis providing due care to the reservation norms of the state and central governments. This is a desirable system to ensure selection of good quality students with genuine interest and aptitude.

The University has completely moved to Semester system from Annual system in the year 2011 in all its post graduate departments barring Engineering faculty departments wherein the semester system is running from the inception of the concerned departments. Moreover, Choice Based Credit System (CBCS) is presently in place in almost all the departments in M.Phil and Ph.D. programmes.

The University prepares a uniform Academic Calendar for each year before commencement of classes and strictly adheres to it. The evaluation scheme for each PG programme is Continuous in nature and comprises of two components viz., Term-end evaluation and In- Semester Assessment. The results are declared within 40-45 days in almost all the departments. Offering remedial courses on regular basis is proving to be useful for the slow learners. A significant increase in the number of M. Phil and Ph. D. Students strongly testifies our growth. This growth is also reflected in the increase of number of publications in reputed journals. University have started arrangement of **Distinguished Lecture Series** which are varied multi-disciplinary lectures by eminent scholars belonging to different faculties. Most of the departments have at least one SMART classroom which helps students to gain knowledge through digital and online media. Some departments are fully equipped with SMART classroom. All hostels are equipped with Wi-Fi connection. Different practical assignments (Project work, Dissertation, Field studies, Term paper preparation) are given to the students in such a manner so that



they have to study and learn beyond class hours. International Mobility programs availed by our Faculty and Students is significant in number.

The numbers of working days and teaching days maintained by the University are satisfactory and loss of man-days is minimum. In carrying out the teaching programmes effectively, preparation of the teaching plans at the beginning of every session by the faculties, and monitoring its progress as per the schedule by the Head of the Department through monthly departmental review are conducted. A component of co-curricular activity, general education and training, and value education are included in the curricula, which help overall personality development and general proficiency.

### **Criterion III. Research, Consultancy and Extension**

Research constitutes a vital element in the functioning of any university. Almost all the departments of the University are found to have research programmes leading to M.Phil and Ph.D. degrees. Most of the teachers are also supervising the research work of the Ph.D./M.Phil. students. Besides, sponsored research through funding from outside agencies is also carried out. At present there are 82 ongoing research projects funded by various national agencies like the UGC, DBT, DST, CSIR, with a total outlay of Rs. 26.58 crores. An increase of 350% from the last evaluation is quite satisfactory.

The University strongly encourages research and consultancy and promotes the same since its inception. A statutory committee (Board of Research Studies) monitors and addresses issues related to the research on a regular basis. It is composed of members as Hon. Vice Chancellor as the Chairperson. Deans of the faculties and faculty members (relevant for the research issue discussed in the meeting) are the members of the Board of Studies. The board regularly meets to look into and resolve the research related issues.

The teachers have a large number of research publications to their credit, which is quite impressive. The list of research publications during the last 4 years includes more than three thousand research publications (detailed in an annexure), 72 monographs, 287 book chapters, 14 edited books, and 27 books with ISBN/ISSN. There were also 2 inventions patented, and 24 awards or recognition for research work. The Department of Science and Technology has recognised our university for the award of a grant of 9 crores under DST-PURSE programme in the year 2010. The number of Ph. D. awarded during the period is 610 which is 150% more than the number recorded in the last assessment.

Several conferences/ workshops are organized and collaborative programs go on regular basis. Recently a number of MOU are signed which indicates that inter-University/ institute collaborations are being encouraged. Departments received UGC SAP and DST FIST supports which have strongly enhanced our research activities.

While the research output in terms of publication and Ph.D. supervision by the faculty is impressive, taking up more sponsored research projects may be emphasised. Moreover, consultancy service needs to be given priority by the University. The details of expertise available with the University need to be properly publicized. The University may also concentrate on providing consultancy services matching the need of the local industries and rural sector. The amount of consultancy work taken by the University at present is far from satisfactory.

### **Criterion IV. Infrastructure and Learning Resources**

Within the campus the University has central facilities such as central library, computer centre, health centre, sports facilities and play grounds, gymnasium, boys and girls hostels, guest house, faculty house, cafeteria, students' centre, central Instrument laboratory etc.

The classrooms are spacious, and the laboratories are fairly well equipped. The University has a well-organised Central Library. There is an Advisory Committee for the library. The lending and book bank functions, and the inventory of the library is computerised and OPAC enabled. It also provides reprographic facility and audio & video cassettes and CDs, along with Internet facility. The library subscribes to print versions of 111 national and 25 international journals, e-journal database of 6000 journals, seven bibliographic databases, 169576 books in its stock. Annual addition of books during the

last two years has been 3200 and 9098 respectively. The library is open from 9 A. M. To 8 P.M. during week days and examination period.

The University has a Central Instrumentation Centre equipped with major equipments such as SEM, NMR, HRMS, Vector Network Analyzer, Powder X-ray diffractometer, AAS and several medium range scientific equipments to provide necessary facilities to all the departments. There is also a central high performance computer facility along with high speed fibre optics and wireless connectivity available in the University Computer Centre. The Centre works from 9 a.m. to 5 p.m. on all working days. There are 125 computers at the Centre. An e-technology centre has recently been established providing computer related and Multimedia research facilities. The Internet facility is also available at the library and the University departments. The University Health Centre is well organised with qualified Medical Officers and trained staff. A range of facilities is available at the Centre.

The University offers excellent facilities for games and sports, which include athletics track, football and volley ball fields, basket ball, squash and tennis courts, etc. The students of the University have excelled at both the national and international levels.

There is hostel facility for the residential students with 846 accommodations of which 560 are for boys in 5 hostels and 421 are for girls in another 4 hostels. The hostels are well maintained and equipped with some of the necessary modern facilities such as modular kitchen, Wi-Fi, purified drinking water, recreational facilities, LED TVs etc.

### **Criterion V. Student Support and Progression**

The overall environment of support available to the students in an institution has a direct impact on the motivating the students in the right directions of learning. This is also reflected on the progression of the students to higher levels of academic pursuits and employment. The performance of the students of the University in the university examinations is highly satisfactory. There are negligible dropouts at the PG level. Progression to higher studies and employment is also satisfactory. Various alumni of the University hold prominent positions in many spheres of activities. Maintaining the complete record of its alumni and formation of the Alumni Association are now being taken up. The University regularly publishes and updates its Prospectus. The course structure and the curricula of the various programmes offered with the number of seats available are also stated in the Prospectus.

Financial assistance and scholarships from the Central and the State Govt. as well as from the University are made available to the students. During the last two years the number of scholarships awarded (545 and 492 respectively), including Merit Scholarship and Merit-cum-Means Scholarships, Indira Gandhi single girl child fellowship, Rajib Gandhi fellowship, DST-INSPIRE fellowship, GATE scholarship, Maulana Ajad fellowship is also satisfactory. The University has an employment and placement officer. A students' counselling cell is also in place. The recreational facilities that are made available to the students are fairly satisfactory.

### **Criterion VI. Governance and Leadership**

The University, established under the State Act as a state university, follows the usual structure of governance of the Indian universities, with the Court, Executive Council, Academic Council, and Faculties. There are also the Finance Committee, Board of Studies and the Departmental Committees at various levels of authority.

Most of the courses run by the University receive the government aid. There are also a number of courses run on partial self-finance. In the overall accounting the University keeps separate accounts for these two groups of courses. Effective steps are being taken to achieve a fully computerised system of accounts and administration. The structure of tuition fees and other fees of these courses are revised from time to time in relation to break even the cost of education.

The University charges nominal fees and has marginally raised a few of other fees in the year 2014. The University has a system of exercising budgetary control through annual budget. The negligible variations in the actual against the budget indicate strict adherence to budget. It shows efficient financial management of the universities. The Distance Education programmes of the University generate a sizeable amount of fund.



Several innovative measures have been introduced during the last few years to make the financial management transparent. These are : (i) Purchase through a central purchase committee; (ii) e-tendering; (iii) Payment to vendors through account payee cheques and NFTE; (iv) All audited statements of accounts are uploaded in the website for inspection; (v) procurement of works related items through tender and purchase committees etc. The University financial management has been recently appreciated by AG Bengal authority.

### **Criterion VII. Innovative Practices**

The University has a commendable record of many healthy traditions and practices in the course of its history of more than 50 years. The peer group was last time impressed with the fact that there are no symptoms of any unrest among the academic communities of the University. A discernible pervasive sense of discipline is noted in the overall climate. Some of the practices worth mentioning are given below:

- A responsive administration which is largely decentralized
- Secured and well-maintained campus with modern security measures such as video camera, petrol van etc.
- Beautification of the campus is a holy exercise.
- Conscious efforts are made for raising environmental considerations such as prohibition of felling of trees, plastic free campus, ban on smoking and selling of tobacco related products, restrictions on vehicles within the campus etc.
- Transparency in admission, examination and finance related matters are secured through the introduction of on-line admission, e-tender, central purchase committee, spot evaluation, and reevaluation of examination script on demand.
- Choice based credit transfer in many departments has increased student access.
- Immediate consideration of complaints through Grievance Redressal Cell is taken up.
- Healthy student's life with vibrant cultural activities and active celebration of all the religious and social festivals with an objective to focus and nurture India's composite cultural heritage.
- Zero tolerance to ragging is ensured throughout the campus.
- Equal opportunities are extended to the boys and girls, without any discrimination, and the reservation of SC/ST/OBC/PH are followed in admission of students as positive discrimination as per the rules.
- Inculcation of civic responsibilities among the students through various extension activities on community development programmes through the NSS, Department of Adult, Continuing Education and Extension department is well practiced. A large number of youths belonging to disadvantaged class are provided skill development training for income generation. Establishment of community learning centres for the tribal and disadvantaged groups, post-literacy programmes for the neo-literates and computer literacy for school children are some of our notable activities.
- National and International linkages established with other institutions in collaborative research.
- Encouragement and facilities provided to students for games and sports.
- Training programmes for Computer Literacy of the administrative staff.



# CRITERIA - WISE INPUTS





## CRITERION I: CURRICULAR ASPECTS

### 1.1 Curriculum Design and Development

1.1.1 How is the institutional vision and mission reflected in the academic programmes of the university?

The University had published the vision, mission and quality policy and these are reviewed periodically for their continued suitability and effectiveness. All the programs offered by the University reflect this vision and mission. Some of the salient features conforming vision, mission and quality policy are:-

- Offering courses in all the core and allied fields including Arts, Science, Social Sciences, Education, Engineering and Management
- Imparting compulsory laboratory training and project experience as part of the curriculum
- Inviting eminent faculty from abroad for providing special training/lecture
- Allowing student and staff exchange with foreign universities as part of the academic program
- Ensuring participation of students in research and consultancy projects.
- Encouraging and rewarding the faculty members for their refereed publications and achievements.
- Framing syllabus with inputs from faculty from Research and Development (R&D) Organizations, Industry, Academia.
- Promoting research activity through collaborative research projects with industry, national and international laboratories and foreign universities providing researchers free access to internet for browsing journals and other e-resources in the department as well as hostels
- Strictly adhering to the reservation policy of the Governments (both State and Central) in admissions and appointments
- Designing of curricula to equip the students with necessary skills to enhance their carrier opportunities at national and international levels.

1.1.2 Does the university follow a systematic process in the design and development of the curriculum? If yes, give details of the process (need assessment, feedback, etc.).

Yes.

The University, in general, follows a three stage approach:

#### **First Stage: Current Status, Feedback and Review**

The following data are collected and reviewed:

- Feedback from appropriate stakeholders
- Curriculum/Syllabus of reputed institutions
- Curriculum model of AICTE, UGC and other national bodies
- Assessment of regional needs
- Inputs from syllabus sub-committee
- Conducting Workshops/Seminars on curriculum development involving all the stake holders, especially the industries, academic experts, students and industries.

#### **Second Stage: Development of Curricula and Syllabi**

- Consideration of possible projections in the subject areas over next five years – Trend analysis.
- Evaluation of availability of experts, expertise, training, tools and techniques

- Review on affordability and utility feasibility of a particular course
- Preparation of draft curriculum and other regulations by the faculty and syllabus sub committee

### **Third Stage: Approval and Implementation**

- Approval of curriculum by the Departmental Committee (DC) and Board of Studies (BOS) of different Faculties of studies, Faculty council and then by Executive council (EC)
- Publicity of approved syllabus through circulars and notifications
- Implementation from next academic year.
- Periodic review – annually at the meetings of BOS
- Total review/revision of syllabus once in four years.

1.1.3 How are the following aspects ensured through curriculum design and development?

### **Employability:**

#### **Employability is ensured through the following aspects:**

- Demand based curriculum
- Need based training
- Presentation of technical papers at seminars and conferences
- Participation at in-house and national level competitions
- To improve communication skill, seminar lectures are incorporated in the syllabus
- Forming of Industry-Institute partnership cell

### **Innovation:**

#### **Innovation is encouraged through the following aspects:**

- Value added courses and training to the students through finishing school
- Project grant for UG and PG students to work on innovative projects
- Encouragement and recognition of innovative works

### **Research:**

#### **The research ability of the students is brought out through the following aspects:**

- Enrichment of library and other e-resources by creating improved facilities and ensuring equitable access
- Providing access to all the research infrastructure for students to carry out project work
- Recognition of research activities
- Financial support to present the research work in seminars
- Providing one University Research Scholar (URS) to each and every faculty members for the entire career duration

1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?

The University follows the guidelines developed by UGC, AICTE and other similar bodies for developing and /or restructuring of curricula. Members of the regulatory bodies are invited and their suggestions are considered. The University has several non-conventional courses in the field of Arts, Sciences, Social sciences, Engineering, Technology and allied subjects and becomes instrumental in

leading curricular reforms which may create a national impact.

1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?

During the revision of curricula inputs from eminent people working in different industry, research body and civil society are included wherever possible. Technical seminars on the subject concerned are organized with industry participation. Soft skill development workshops are organized with professionals. Some of these inputs have made impact on the outcome of the revised syllabus.

1.1.6 Give details of how the university facilitates the introduction of new programmes of studies in its affiliated colleges.

The University facilitates the introduction of new programmes in the affiliated colleges by extending the expertise available in the University bodies such as syllabus sub-committee, BOS and Faculty Council. Affiliated colleges are encouraged to introduce new, need-based courses with the approval of the University along with the concurrence from the state Government.

1.1.7 Does the university encourage its colleges to provide additional skill-oriented programmes relevant to regional needs? Cite instances (not applicable for unitary universities).

University encourages additional skill oriented programmes offered by colleges. Some of them include the following:

- Soft-skill development programmes
- Training on Networking
- Applied software training
- Training on personal computer (PC) Maintenance

## 1.2 Academic Flexibility

1.2.1 Furnish the inventory for the following:

### Programmes taught on campus

#### Degree, Diploma and Certificate Programs offered on Campus:

UG (Professional Courses): 05, UG: 38, PG: 35, Integrated PG: 02, Ph D: 30, M. Phil. = 7, PG Diploma, Diploma and Certificate course: 65

#### Details of UG (Professional) Programmes offered (05):

B. Ed., B.PEd, BLI Sc., B. Tech. (Information Technology), B. Tech. (Electronics & Instrumentation Engineering)

#### Details of UG Programmes offered (32):

Arabic (H&G), Bengali (H&G), Botany (H&G), Chemistry (H&G), Commerce (H&G), Computer Science (H&G), Computer Application (Major), Communicative English (Major), Defense Studies (H&G), Economics (H&G), Education (H&G), English (H&G), Environmental Science (H), Environmental Studies (compulsory), Film Studies (G), Food and Nutrition (H), Geography (H&G), Hindi (H&G), History (H&G), Islamic History (H&G), Law (BA, LLB), Mathematics (H&G), Media Studies (H&G), Microbiology (H), Molecular biology & Biotechnology (H&G), Philosophy (H&G), Physical Education (B.P.Ed.), Physiology (H&G), Physics (H&G), Political Science (H&G), Sanskrit (H&G), Sericulture (Major), Sociology (H&G), Statistics (H&G), Tourism & Travel Management (Major), Urdu (H&G), Zoology (H&G)

#### Details of PG Courses offered (38):

Faculty of Arts and Commerce (14): (Bengali, Commerce, Economics, English, Folklore, Hindi, History, Library & Information Sciences, Philosophy, Political Science, Sanskrit, Sociology, Rural Development Studies), Adult and Continuing Education and Extension

Faculty of Science : (14) Biochemistry & Biophysics, Botany, Chemistry, Environmental Science, Geography, Mathematics, Microbiology, Molecular Biology & Biotechnology, Physics, Physiology, Statistics, Zoology, Environment and Ecological Studies, Sericulture

Faculty of Engineering, Technology and Management (FETM) (04): M. Tech. (Computer Science & Engineering), M. Tech. (Communication Engineering), MCA, MBA (Technology Management),

Faculty of Education (03): Education, M. Ed, M. P. Ed.

Faculty of Fine Arts & Music (01): Fine Arts

### **Integrated Master Degree (02)**

Statistics, M.L.I.S.C.

### **Details of Research Degrees offered:**

**M. Phil.:** (7) (Bengali, Economics, Women Studies, Commerce, Education, Folklore, History)

**Ph.D. (30) Faculty of Engineering, Technology and Management (3):** Business Administration, Computer Science & Engineering, Engineering & Technological Studies: **Faculty of Arts (12):** Bengali, Commerce, Economics, English, Folklore, History, Library & Information Sciences, Philosophy, Political Science, Sanskrit, Sociology, Rural Development Studies: **Faculty of Science (13):** Biochemistry & Biophysics, Botany, Chemistry, Environmental Science, Geography, Mathematics, Microbiology, Molecular Biology & Biotechnology, Physics, Physiology, Statistics, Zoology, Environment and Ecological Studies: **Faculty of Education (02):** Education, Physical Education

### **Details of PG Diploma, Diploma & Certificate Courses offered (67)**

#### **P.G. Diploma (3):**

Russian Language, Library & Information Sciences, Health Care and Hospital Management

#### **Diploma (16):**

Animation Film Making, Ceramic Design, Multimedia, Animation, Fine Arts(Painting), Defence Studies, Seed & Nursery, Soil & Plant Health Management, Plant Protection, Finance & Agri-Business Management, Medical Laboratory Technique, Medical Radiology, Physiotherapy Technique, Encephalography Technique, Contact Lens Practice, Optical Science

#### **Certificate (48)**

Training on Networking, Applied soft-ware training, Training on PC Maintenance, Fishery Management cum Fish Breeding, Ornamental Fish Culture, Primary Health Care & Social Service, Vermicompost Production, Mushroom Cultivation, Agril Horticulture, Environment Quality Assessment & Monitoring, Mushroom Spawn Production & Cultivation, Computer Typing & Internet Operation, MS-Office & Internet, Desk Top Publishing, Computer Fundamental with Internet & Foxpro, Fundamentals of Programming with C++ Language & Visual Basic, Computer Fundamentals, Programming in C & Visual Foxpro, Motor & Small Rating Transformer Winding & Servicing, Computer Hardware & Networking, Basic Electronics, Fitting, Machining, Welding, Sheetmetal Forging & Foundry Practices, Wood Work and Modern Designing, Two-Wheeler Repairing & Maintenance, Four-Wheeler Repairing & Maintenance, Refrigerator & Air-conditioner Repair & Maintenance, MIG Welding, Core & Advanced Java Programming, Database Management System & Oracle, Plumbing, Electrical Wiring, Manager ship of Civil Constructions, Wet Cell Battery & Inverter Making & Maintenance, Communicative English, Gardening, Food Processing, Azolla cultivation, Motrilting Repairing, Dental Technique, Optical Technique, Basic Nursing Practice, Community Helth Service, Sanitary Inspection, ECG & PET, Optometric Assistant

\* Overseas programmes offered on campus



NAM RTF-DCS Programme, ERASMUS Programme. Details are provided in section 2.4.11

**PG Programmes available for colleges (07):** Hindi (Krishnanagar College), Bengali (Krishnanagar College, Ranaghat College, Nabadwip College, Baharampur Girls College, Sripatsingh College, Krishnanagar College), Geography (Krishnanagar College), Philosophy (Krishnanagar College), Sanskrit (Krishnanagar College), Zoology (Krishnanagar College).

1.2.2 Give details on the following provisions with reference to academic flexibility

**a. Core / Elective options**

Common and core subjects are given from Semester I to Semester III. Nearly 30% of the subjects are given as electives for U.G students. Elective papers in each core optional subject are offered in the last two semester of the course. In all PG courses provision for both specializations and electives exists.

**b. Enrichment courses**

Advanced and enrichment courses are offered in Electives during the final semester of PG courses. Courses in humanities and social sciences are incorporated in Engineering, Technology & Management discipline to develop appreciation of the impact of science and technology on society. Some of these courses are Environmental studies, Communication Skills, Organizational Behaviour, Human Values, Ethics and IPR. These are aimed at promoting value education and citizenship roles.

**c. Courses offered in modular form**

Several courses in many PG disciplines are offered in modular forms as introductory and advance level subject. Certain need based programmes are offered as modular form of certificate courses.

**d. Credit accumulation and transfer facility**

Each course is normally assigned certain number of credits with one credit per lecture period per week, one credit per tutorial period per week, 1 credit for 2 periods of laboratory or practical or seminar or project work per week (2 credits for 3 or 4 periods of practical) and 1 or 2 credits for 4 weeks of industrial training. In each semester, the curriculum shall normally has a blend of lecture courses not exceeding 6 and practical courses not exceeding 4. For the award of the degree, a student has to earn a certain minimum total number of credits specified in the curriculum of the relevant branch of study. Credit point for UG branches ranges between 185 and 230 credit point and the same for PG branches ranges from 64 and 100 respectively.

**e. Lateral and vertical mobility within and across programmes, courses and disciplines**

The curriculum allows lateral and vertical mobility within courses across departments. In case of UG courses (non-Professional), change of course/group/ second language is permitted within eight weeks after the date of admission. In case of UG courses (BE and BTech), change of branch is permitted before the admission into second year. Regarding credit accumulation, a student must study all the courses given in the scheme and meet the credit requirements as approved by the Executive Council (EC). A student will be allowed to continue in the program of his study only if he/she secures a minimum CGPA or earns a minimum of some percentage of the total number of credits offered in the approved scheme of courses. Only credits of those courses are considered as earned credits in which the student has earned A or B or C or D grade. A student who fails to satisfy these conditions is required to repeat the semester. No credit transfer is possible if the student comes from a different institution for UG or PG courses but credit transfer is possible if the student comes for the Ph. D. degree from other institutions

1.2.3 Does the university have an explicit policy and strategy for attracting international students?

Yes, the University has a policy of accommodating international students through exchange program like NAM RTF-DCS program, Erasmus program and various cultural exchange program.

1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.

The curriculum is prepared to attract the international students also which is globally inclusive

1.2.5 Does the university facilitate dual degree and twinning programmes? If yes, give details.

No

1.2.6 Does the university offer self-financing programmes? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programmes?

Some programs offered by the University are self financing programs and policies regarding admission are identical, fee structure is enhanced, teacher qualification are as per UGC regulations and salary are as per State Government Order. Fees structures are given in annexure. Courses are:

Master of Computer Applications

M. Tech (CSE), M. Sc. Biotechnology, MA Rural Development Studies, M. Sc. in Environmental and Ecological Studies, M. Sc. In Molecular Biology & Biotechnology, M. Sc. In Microbiology, M. A. in Fine Arts, Master in Business Administration (M.B.A).

1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of

The distance education programmes offered in the University are aimed at working professionals. Curricula and syllabi are framed accordingly. Hence face-to-face mode and distance education mode are dealt separately.

1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programmes? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?

Yes

In consonance with the peer committees' recommendations, the University has introduced Choice Based Credit System (CBCS) in all Ph. D. Programmes of the University.

1.2.9 What percentage of programmes offered by the university follow:

- \* Annual system: All UG Programmes
- \* Semester system: All PG Programmes
- \* Trimester system: No Programme

1.2.10 How does the university promote inter- disciplinary programmes? Name a few programmes and comment on their outcome.

The University introduced some of the unique interdisciplinary programmes. The curricular and syllabi are framed by pooling in the academic / R & D / industry experts from different disciplines. Some of the inter-disciplinary UG / PG programmes offered in the University are listed below.

Folklore, Library & Information Science, Rural Development & Management, Biochemistry & Biophysics, Environmental Sciences, Microbiology, Molecular Biology & Biotechnology, Business Administration, Master in Library and Information Sciences, Master of Technology in Computer Science & engineering, Master in Computer Application, Environmental Management,

### 1.3 Curriculum Enrichment

1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented /knowledge intensive and meeting the emerging needs of students and other stakeholders?

In order to keep the students abreast with the latest trends in the emerging areas and also to keep pace with the industrial needs and global competition, the curricula and syllabi are revised and enriched once in four years. However as and when the need arises there is a provision to upgrade the curricula and syllabi.

1.3.2 During the last four years, how many new programmes at UG and PG levels were introduced? Give details.

NEW Courses	Interdisciplinary	Programmes in emerginig areas	
		Diploma/Add- On Courses	Certificates Courses
Masters Degree in Hindi, Sanskrit, Fine Arts and Philosophy. Integrated Master Degree Statistics, M. Phil in Womens's Studies, Master Degree in Adult Education & extension, M. Tech in Communication Engineering.	Master Degree courses- Library and Information Science.	PG Diploma in M Lisc; Animation Film making; Ceramic Design; Multimedia; Animation; Fine Arts (Painting); Defense Studies; Seed and Nursery Management; Soil and Plant Helth Management; Plant Protection; Finance and Agri Business Management; Medical Lab Tech; Medical Radiology; Physitheraphy Teaching; Encephalography Technique; Contact Lens Practice; Optpmetric Science; Managerial Economics; Accountancy; Communicative English, Health Care and Hospital Management.	Computer Hardware & Networking, Basic Electronics, Fitting, Machining, Welding, Sheetmetal Forging & Foundry Practices, Wood Work and Mordern Designing, Two Wheeler Repairing & Maintenance, Four Wheeler Repairing & Maintenance, Refrigerator & Air Conditioner Repair & Maintenance, MIG Welding, Core & Advanced Java Programming, Database Management System & Oracle, Plumbing, Azolla Cultivation, Motriliting Repairing; Dental Technique, Optical Technique, Basic Nursing Practice, Community Health Service, Sanitary Inspection.

In addition India Administrative Service (IAS) Training centre has also been initiated by the University.

1.3.3 What are the strategies adopted for the revision of the existing programmes? What percentage of courses underwent a syllabus revision?

The University revises the regulations of examinations, curricula and syllabi once in four years keeping in view of the following.

- Feedback from stakeholders.
- Instruction from the regulatory bodies such as AICTE and UGC.
- Assessment of regional needs & trend Analysis.
- Evaluation of availability of experts, expertise, training, tools and techniques.
- Review on affordability and utility as well as feasibility.
- Feedback from Alumni

1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?

- University introduced courses on soft-skills, spoken English and communication skills, computer skills and Entrepreneur development with a view to developing skills and offer career training.
- As part of their curriculum, all B Ed colleges conducts surveys and field trips to facilitate the student community in experiencing the community related aspects.

**1.3.5** Has the university introduced any higher order skill development programmes in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?

The following skill development programmes are introduced by the University,

Fishery Management cum Fish Breeding, Ornamental Fish Culture, Primary Health Care & Social Service, Vermicompost Production, Mushroom Cultivation, Agril Horticulture, Environment Quality Assessment & Monitoring, Mushroom Spawn Production & Cultivation Computer Typing & Internet Operation, MS-Office & Internet, Desk Top Publishing, Computer Fundamental with Internet & Foxpro, Fundamentals of Programming with C++ Language & Visual Basic, Computer Fundamentals, Programming in C & Visual Foxpro, Motor & Small Rating Transformer Winding & Servicing, Computer Hardware & Networking, Basic Electronics, Fitting, Machining, Welding, Sheetmetal Forging & Foundry Practices, Wood Work and Modern Designing, Two-Wheeler Repairing & Maintenance, Four-Wheeler Repairing & Maintenance, Refrigerator & Air-conditioner Repair & Maintenance, MIG Welding, Core & Advanced Java Programming, Database Management System & Oracle, Plumbing, Electrical Wiring, Managership of Civil Constructions, Wet Cell Battery & Inverter Making & Maintenance, Communicative English, Gardening, Food Processing.

## **1.4 Feedback System**

**1.4.1** Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes, the University reaches all the stakeholders through its web-site wherein the details of all its academic programmes are displayed. University encourages the participation of all the stakeholders in planning, implementation and evaluating the academic programmes by collecting the feedback from them. Feedback from students on the ongoing academic activities is collected through the feedback forms. Feedback is also obtained through personal interaction with students during the meetings with student counsellors and mentors. At end of each course feedbacks are taken and the same is discussed in the respective DC of each department for improvement. Some departments take Feedback through website like Computer Science & Engineering.

**1.4.2** Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

The University has entered into Memorandum of Understanding (MoU) with several national and international Universities. One of the objectives of MoU is to facilitate faculty exchange programme. The faculty members visiting from other Universities give feedback on the curricula and syllabi. Online discussions are also held by the faculty members to upgrade the curricula to meet the global challenges. Details of MoU is given as annexure.

**1.4.3** Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

The senior faculty members from affiliated colleges form a part of the syllabus subcommittee, Board of Studies and Faculty Council. They are also member in UG Council where regular meetings are conducted. The feedback of affiliated institutions are obtained through them and discussed in all the above forums for possible incorporation. Moreover, subject specific workshops are also conducted where majority participants are from affiliated colleges.

**1.4.4** What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?

Introduction of new UG and PG programmes and novel/job oriented programmes:

Consultation of model curriculum developed by UGC/AICTE/NCTE; Revision of contents of UG and PG programme on regular basis to meet the ever changing requirements of the industry/job market/needs of society; Evaluation and awarding credits for student seminars; Option for Project Work in the final semester for all PG programmes to strengthen research; Supply of course material to the

students pursuing interdisciplinary programmes; Adoption of Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA) on the performance of a student; Availability of handouts of lectures and Power Point presentations of crucial lectures; Seminars/tutorials/field work in the curriculum to focus on multi skill development; Usage of ICT in teaching-learning process by making it a part of the curriculum; Offering value addition courses; Provision of smart class rooms.

***Any other information regarding Curricular Aspects which the university would like to include.***

- Courses on communication skills / Professional ethics / Environmental awareness.
- Tutorials for weaker students.
- Library hour / Association Activity hour in the time table.
- **Self-Access Interactive Learning**
- Self-Learning Mode curriculum was developed in selected faculty programs in addition to regular mode of Teaching-Learning.
- Strict Adherence to academic calendar.
- SC-ST coaching centre.





## CRITERION II: TEACHING-LEARNING AND EVALUATION

### 2.1 Student Enrolment and Profile

#### 2.1.1 How does the university ensure publicity and transparency in the admission process?

University ensures publicity and transparency in the admission process by adopting the following steps:-

- The University advertises its notifications for admission to various courses through national and local newspapers, as well as, by uploading the information on the website of the University.
- Only online submission of applications is allowed. In the advertisement, eligibility criteria for each course, category wise seat distribution of each course, date of publications of merit list, date of counselling-cum-admission, course fees etc. are given. Wherever necessary, subsequent counselling-cum-admission is done. This is also notified through website mentioning the vacancy and dates of admission.

#### 2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).

As per West Bengal Govt. rules, there is a reservation of 60% seats in each course for candidates who have Graduation with Honours in the respective subject from home university (Kalyani University) 40% Seats are unreserved for candidates from other universities, as well as, candidates from home university (who do not figure in the 60% merit list) on competitive basis.

**(i) Merit:** Merit List for 60% category (home University) is based on marks obtained in the Honours subject (Part 1+Part 2+Part 3) only. In case of a tie, aggregate marks of best of five subjects. (Excluding Environmental Studies) obtained in Higher Secondary Examination, are taken into consideration.

**(ii) Merit with Entrance Test:** Merit List for 40% is based on 50% marks obtained in the Honours subject (Part 1+Part 2+Part 3) + 50% marks obtained in the Admission Test. Conducted for this purpose in case of a tie, aggregate marks of best of five subjects (excluding Environmental Studies) obtained in Higher Secondary Examination, are taken into consideration.

**(iii) Merit, Entrance and Interview:** The University follows the following criteria for admission to M.Phil & Ph.D. programmes:

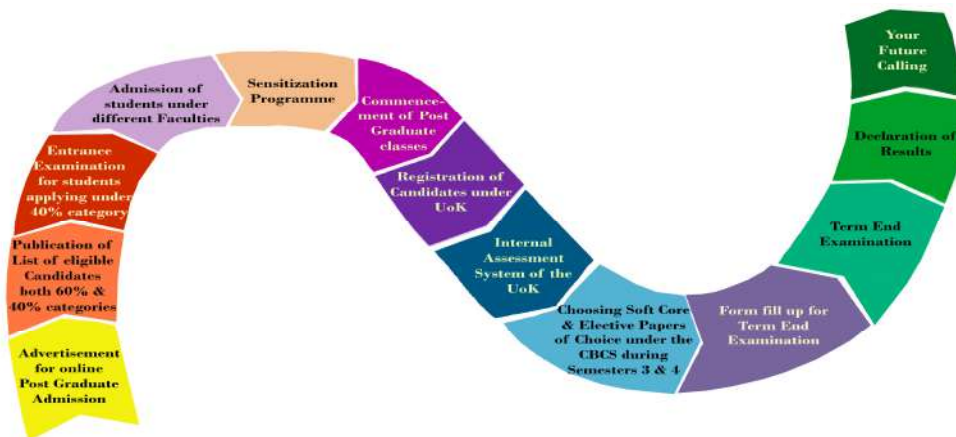
- Kalyani University Research Admission Test (KURAT): Written test of 60 marks as Entrance Test.
- Interview: After passing the KURAT exam, candidates (including exempted candidates such as NET, GATE, SET etc qualifies) have to face an interview of 40 marks. Final Merit list is prepared with due weightage of marks of interview and academic achievement.

**(iv) Common entrance test conducted by state agencies and national agencies:** No such practice is presently applicable.

**(v) Other criteria followed by the university (please specify):**

- **MCA:** Admission through JECA conducted by Government of West Bengal. Criteria - first class/division in each stage of 10<sup>th</sup> standard 1+2 level and graduation
- **MBA:** Admission through all India entrance examinations and viva voce at university level
- **B.Tech.** Admission through WBJEE conducted by Government of West Bengal
- **M.Tech:** Admission through open admission test conducted by the University (70% from test and 30 % from GATE score)





### 2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.

**UG:** Stand alone online admission as per notification of Government of West Bengal.

**B.Ed.:** Stand alone on line admission is followed in Govt. & Govt. aided B.Ed. colleges as per Govt. rules. Central counselling is done for all self financed B.Ed. colleges as per Govt. rules under the supervision of the University of Kalyani in its own campus.

### 2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?

The University authorities (Faculty Council & Central Admission Committee) review the admission process annually for modifying/rectifying the admission eligibility criteria and also reservation policy as per Govt. norms, if any. Complaints / R.T.I., if any, is taken care of during monitoring. Each department of the University maintains the student profiles. Moreover, Admission section of the University scrutinizes and maintains records of the student profiles centrally.

### 2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:

- \* SC/ST
- \* OBC
- \* Women
- \* Persons with varied disabilities
- \* Economically weaker sections
- \* Outstanding achievers in sports and other extracurricular activities

The University adopts the following strategies to increase/ improve access for students belonging to the following categories:

- **SC/ST:** The reservation in seats for SC/ST candidates in all P.G., M.Phil. and Ph.D. programmes is guided by the W.B. Govt. rules. The reservation of seats for SC is 22% and for ST is 6% of total seats of any programme.
- **OBC (OBC-A & OBC-B):** The reservation in seats in all P.G., M.Phil. and Ph.D. programmes is guided by the W.B. Govt. rules. The reservation of seats for OBC-A is 10% and for OBC-B is also 10% of total seats (not curtailing the number of seats of unreserved category) of any programme.
- **Women:** No such reservation policy presently exists.
- **Person with varied disabilities:** The reservation in seats in all P.G., M.Phil. and Ph.D. programmes is guided by the W.B. Govt. rules. The reservation of seats for this category is 3% of total seats of any programme.



- **Economically weaker sections:** There is a provision of half-free/full free of course fees for the students of this section.
- **Outstanding achievers in sports and other extracurricular activities:** Maximum one seat in each course is reserved for outstanding achievers in sports (as sports quota).

Moreover, University has a special fund to provide financial assistance to financially weaker section of different categories.

#### 2.1.6 Number of students admitted in university departments in the last four academic years:

Categories	2011-12		2012-13		2013-14		2014-15	
	Male	Female	Male	Female	Male	Female	Male	Female
SC	322	184	272	152	252	172	280	198
ST	24	13	32	17	31	19	28	15
OBC	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	81	60
General	549	521	547	618	520	524	466	476
Others (PH & Minorities)	117	78	118	61	135	58	98	33

**2.1.7 Has the university conducted any analysis of demand ratio for the various programmes of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease. The demand ratio of various University departments are as follows:**

Programmes		Number of applications	Number of students admitted	Demand Ratio
UG		Not Available	155	Not Available
PG		9721	1739	5.59
Integrated Masters		117	47	2.49
M. Phil.		N.A.	49	10.20
Ph.D.		2000	235	8.51
Integrated Ph.D.		N.A.	N.A.	NA
Certificate		N.A.	00	NA
Diploma		10	04	2.5
PG Diploma		N.A.	00	NA
Any other	B. Ed.	N.A.	50	NA
	B.P. Ed.		50	
	B.Tech.		30	
	B.Tech.		25	

**2.1.8 Were any programmes discontinued / staggered by the university in the last four years? If yes, please specify the reasons.**

B.L.I.Sc. course is discontinued as an integrated M.L. I. Sc. is introduced.

**2.2 Catering to Student Diversity**

**2.2.1 Does the university organize orientation / induction programme for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.**

Yes, the University organizes centrally and faculty wise 'Freshers' Welcome/Induction programmes' within the first week of actual commencement of P.G. courses. Moreover, in each department separate induction programme for freshes is organized by the Head of the Department and faculty members. Faculty members explain the details of the programme, code of conduct and facilities available in the department. Anti-raging policies of the University are made aware to the freshers. The University has a zero tolerance to ragging.

**2.2.2 Does the university have a mechanism through which the "differential requirements of the student population" are analysed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?**

Entrance test helps to assess the levels of knowledge, skill etc. During counselling and freshers' welcome programmes faculty members try to identify the needs of the students.

**2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?**

Each department organizes remedial classes through tutorial classes. Tutorial classes are accommodated in the time table. There is a provision of add-on courses as per University's Choice based Credit system. In the Department of Adult and Continuing Education, there are different soft skill development programmes.

**2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?**

As most of the students are from rural background, the main factors which inhibit the academic growth of students are lack of economic support, lack of communication skills, low levels of aspiration, and lack of careerist attitude. The University tries to help them in following ways:

- Waiving of course fees
- Flexibility in payment of course fees
- Organizing tutorial classes for slow learners
- Providing different types of Scholarships (including Govt. sponsored)
- Organizing NET/SET guidance programme for SC/ST students

**2.2.5 How does the university identify and respond to the learning needs of advanced learners?**

Advanced learners are identified by different types of tests (Mid-term, Assignment and Term end examinations) and also through classroom interaction. They are given the following provisions for their further development:

- Encouraging them to take part in seminar, workshop etc.
- Motivating them to qualify in NET/SET/GATE etc.
- Participating in Peer-learning and collaborative learning.
- Organizing Civil service coaching centre.
- Providing programme for developing soft skills in ICT.
- Encourage to work in collaboration with national and International organization.

- Advanced graduate and postgraduate students are allowed to do summer and winter training courses/workshops in leading institution.
- Advanced learners of MCA programme are allowed to do project work at leading IT organization for six months.
- Advanced learners are allowed to do scientific project works in leading institutions and organization like ISI, NIC, TCS.

## 2.3 Teaching-Learning Process

### 2.3.1 How does the university plan and organise the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

The University plans and organise these in the following ways:

**Academic Calendar:** The University prepares a uniform (except different teacher training programme, and regulations) Academic Calendar for each year before commencement of classes. The date of commencement of classes is announced at the time of Admission notification at university website. Each student gets 'Prospectus' before admission. This prospectus is published by the University every year and contains necessary information regarding each of the academic department including names of the faculty members, courses offered by the department, facilities available in the department etc.

**Teaching Plan:** Each department prepares the Time table/Routine considering the Academic Calendar of the University. Each course is divided into a number of units/modules mentioning the appropriate learning experiences/class hours for each unit/module, as per regulations. The some of the faculty members upload their teaching plan and course material in the website. DODL provides a CD containing study materials to its students.

**Evaluation Blue Print:** The evaluation scheme for each course contains two parts:

- (a) Term-end evaluation and
- (b) In- Semester Assessment

The weightage given to Term-end evaluation and the In-Semester assessment is 60:40 and is highlighted in the Course/Syllabus outline of each Department. Each Department formulates its own method of In-Semester Assessment, which is communicated to the students at the beginning of the Course. Departments follows AICTE regulation have different ratios of the two parameters.

Duration of examination of theoretical courses up to 50 marks/points is two hours, up to 60 marks/points two and half hours, up to 75 marks/points three hours and up to 100 marks/points four hours. The same for the practical courses up to 50 marks/points is four hours and up to 100 marks/points six to eight hours generally.

In order to qualify in a semester examination, a student has to get minimum aggregate 40% marks / 40 points (D and above on grade point scale) in each course.

To ensure transparency of the evaluation process, the In-Semester assessment grade awarded to the students in each course in a semester is published and put up on the notice board of the Department, at least one week before the commencement of Term-end examinations. Evaluation scripts are also show to the students.

### 2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

In the very beginning of each course teachers provide the outline and detailed syllabus of each course. Most of the syllabi of P.G. courses are available in University's website also. Head of the department puts up the time table on the notice board before commencement of the programmes. This practice helps teacher and students to monitor their progress in academic activities.

**2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.**

Generally the curriculum of different departments goes as per academic calendar except the loss of working days due to natural calamities. The University/Department takes some measures to overcome the challenges, like:

- Taking extra classes on Saturdays
- Organizing extra teaching hours during normal working days
- Hiring guest faculties for specific need

**2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.**

The University emphasises student centric learning by adopting different **soft core courses and optional courses** to fulfil the learners' need. The following lists the different participatory learning activities adopted by the faculty that contributes to holistic development and improved student learning, besides life-long learning and knowledge management:

- Interactive classroom session with the use of ICT blended learning
- Free access to internet in students hostels
- Written assignment, term paper for self study
- Problem solving exercises, like field studies, project work, dissertation etc.
- Seminar presentation
- Laboratory assignments
- Continuous feedback through CCA (Comprehensive & Continuous Evaluation)

**2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?**

- University provides fund annually and encourages all faculty members to organize national/international seminars, workshops, and conferences etc. which facilitates to invite experts, eminent persons from National and International level to deliver and share their experiences.
- University also encourages regular arrangement of **Distinguished Lecture Series** which are varied multi-disciplinary lectures by eminent scholars belonging to different faculties.
- Experts are also invited in different departments to deliver lectures under Endowment Lecture Scheme.
- University permits eminent Guest lecturers visiting faculty in various departments.
- Many departmental Alumni Associations invite distinguished alumni to share their experiences.

**2.3.6 Does the university formally encourage blended learning by using e-learning resources?**

University encourages blended learning by adopting the following measures:

- Several of the departments have at least one SMART classroom which helps students to gain knowledge through digital and online media. Some departments are fully equipped with SMART classroom.
- University offers free access to internet to each department.
- Central Library and the Centre for Information and Resource Management (CIRM) offers free access to all communities to enhance e-learning.

- All hostels are equipped with Wifi connection.

### **2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?**

Faculty members use the following technologies and facilities for effective teaching in the classroom:

- University provides open access to internet facilities to all faculty members.
- Nearly 18,000 e-journals are available for teachers, scholars and students of each department.
- University Central Library is well equipped with different e-resources, through UGC-INFLIBNET and UGC-Info NET.
- University provides Desktop & Laptop to each faculty member for effective teaching.
- Administrative building is fully equipped with Wifi connectivity.

### **2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?**

Faculty members of each department regularly update their syllabus incorporating and integrating the recent developments in the respective course curriculum and syllabi accessing different open source.

Teachers provide materials to students from different open source, like soft copy of lectures, power point etc. Students are also encouraged by teachers to use these open sources by providing them authentic web addresses.

### **2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?**

University takes the following steps to orient traditional classroom into 24x7 learning places:

- Different practical assignments (Project work, Dissertation, Field studies, Term paper preparation) are given to the students in such a manner so that they have to study and learn beyond class hours.
- Library services with free use of internet are open 24x7 to all even after normal working hours.
- Laboratory facilities are open 24x7 to research scholars.
- All hostels are equipped with free access of internet services and Wifi connectivity which helps them to learn 24x7.

### **2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

Dean of Students' Welfare, Committee Against Sexual Harassment and Medical Unit of the University provide personal, medical and psychosocial guidance to students. Each faculty member helps to solve different academic, personal and psychosocial problems faced by students. Moreover the UGC sponsored centre of NET/SET guidance for SC/ST students is also providing academic guidance. The University established the Nadia Civil Service Academy in April, 2015 after signing a MOU with Nadia District Administration. The objective of the academy is to introduce tutorials and coaching for aspirants of civil service examinations like WBCS, UPSC, IAS etc. A central placement cell looks after various training and placement related issues including campus interview.

### **2.3.11 Were any innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

The following innovative teaching approaches/methods/practices adopted/put to use by the faculty during the last four years:

- Several departments have at least one SMART classroom which helps students to gain knowledge through digital and online media. Some of the departments are fully equipped with SMART classrooms.
- Most of the teachers use LCD/LED projector during their presentations which enhances classroom interaction.
- Teachers provide the soft (in pen-drive or through email) and hard copies of the material to students. Some also provide these on through the university website.
- Most of the teachers try to apply constructivism principle in the classroom.
- CBCS is used in construction and transaction of curriculum.

These practices enable students in better understanding of the subject. Moreover, CBCS helps students to score high in their academic achievement.

### 2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?

University tries to create an environment of instilling and nurturing creativity and scientific temper among the learners in the following ways:

- Students are given freedom to express and think in the classroom.
- Self-initiated learning and critical thinking are encouraged by the teachers.
- Teachers assign thought provoking and challenging tasks during In-Term Assessment.
- Project work, dissertation, field studies enhance divergent thinking (key factor of creativity) of students.
- Group discussion/grand VIVA also promotes creativity among the learner.
- Students are encouraged to participate in paper presentation, poster presentation in different seminars, symposiums, conferences, workshops which help to foster creative thinking.
- Interacting with experts in seminars etc. are also very helpful in this regard.

### 2.3.13 Does the university consider student projects mandatory in the learning programme? If yes, for how many programmes have they been (percentage of total) made mandatory?

\* Number of projects executed within the university

\* Names of external institutions associated with the University for Student Project Work

\* Role of faculty in facilitating such projects

University considers student project mandatory in the following way:

Sl. No.	Faculty	Total No. of Dept.	No. of Dept. exist Project/Dissertation	%
1	Arts & Commerce	14	11	78
2	Science	13	13	100
3	Engineering, Management & Technology	3	3	100
4	Education	2	2	100
5	Music & Fine Arts	1	1	100

**External Institutions associated with the project:** ISI, Kolkata, IISER Kolkata, NIC, Govt. of India, Regional Institute of Remote Sensing & Service Center, Govt. of India, Different IT organizations such as TCS, CMC, ERICKSON, Cognizant etc.



Teachers act as facilitators throughout the project. Sometimes they go to field studies with the students to collect data.

**2.3.14 Does the university have a well qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

University appoints specialized teachers to address the requirements of different curriculum. Sometimes guest faculties are invited to meet some special needs of the learners. Moreover, resource persons from other departments are utilized to support the interdisciplinary nature of some specific subjects, especially in Ph.D. coursework classes.

**2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?**

University provides Desktop & Laptop facilities to faculty members and also free internet connection to each faculty member. This helps teachers to prepare computer aided teaching-learning materials. Most of the department have at least one SMART classroom facility where LCD/LED Projectors are available. The IQAC organized “ Microsoft’s Teacher Empowerment programme (SAKSHAM)” to enable the faculty members to learn more about latest teachings.

**2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?**

University has introduced a mechanism for the evaluation of teachers by the students. Students are asked to evaluate their teachers in terms of different aspects of teaching through a semi structured questionnaire. DC and IQAC analyse the data and identify their strengths and weaknesses in teaching and its subsequent improvement.

## **2.4 Teacher Quality**

**2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?**

University plans and manages its human resources to meet changing requirements of the curriculum in the following way:

- As per UGC guidelines, teachers go to orientation and refresher courses at regular intervals.
- University permits teacher to participate in seminars, conferences, workshops etc. at National and International levels.
- Organizing seminar/symposium on current trend.
- Encourages teachers to attend advanced pedagogical courses related to curriculum.

**2.4.2 Furnish details of the faculty**

<i>Highest Qualification</i>	<i>Professors</i>		<i>Associate Professors</i>		<i>Assistant Professors</i>		<i>Total</i>
	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	<i>M</i>	<i>F</i>	
<i>Permanent Teachers</i>							
D.Sc.	02	00	00	00	00	00	2
D.Litt.	03	00	00	01	00	00	4
Ph.D.	69	17	22	08	47	16	163
M. Phil.	00	00	00	00	00	00	0
PG	03	00	07	03	10	02	25

**2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise).**

The University has a uniform policy of appointing the best available candidate through open advertisement the recorded diversity of the following departments is given below.

<i>Department/ School</i>	<i>% of faculty from the Same University</i>	<i>% of faculty from the Other University within the state + % of faculty from the Universities outside the state</i>	<i>% of faculty from the Other Countries</i>
Zoology	50 %	50%	nil
Bengali	44.4 %	46.6%	nil
English	10 %	90%	nil
Economics	20 %	80%	nil
Education	9 %	91%	nil
Commerce	62.5 %	37.5%	nil
Folklore	80 %	20%	nil
Env. Sc.	25 %	75%	nil
Env. Manage.	100%	Nil	nil
Microbiology	33.3 %	66.7%	nil
Molecular Biology & Bio-technology	25 %	75%	nil
Mathematics	18.1 %	81.9%	nil
Physics	7.1 %	92.9%	nil
Chemistry	31.5 %	68.5%	nil
Botany	35.7 %	64.3%	nil
Sociology	40 %	60%	nil
Physical Education	75 %	25%	nil
Adult Continuing Education	50 %	50%	nil

**2.4.4 How does the university ensure that qualified faculty are appointed for new programmes / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programmes during the last four years?**

Vacancies are advertised in leading newspapers and University's website mentioning the requisite specialization and reservation policies for the post. After a thorough scrutiny, Board of selection, comprising of different subject experts from other universities, selects the teachers for the mentioned subjects.

**2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?**

In year 2015-2016:

Emeritus Professor: 07, Adjunct Faculty: 00, Visiting Professor: 11.



**2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/seminars, in-service training, organizing national/international conferences etc.)?**

University encourages teachers to recharge and rejuvenate academically by adopting the following measures:

- Providing individual research grant and research fellow to all the teachers on continuous basis.
- Encourages to submit leave, Travel assistance and research proposal to UGC, DST, DBT, ICSSR etc.
- Provides permission to attend seminars, symposiums, conferences, workshops
- Provides fund for organizing seminars, workshops etc.
- Grants study leave for pursuing research and subject specific pedagogical courses
- Encourages participation in different Orientation, Refresher and faculty development programmes.

**2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?**

- State level: 08
- National level: 08
- International level: 08

**2.4.8 How many faculty underwent staff development programmes during the last four years (add any other programme if necessary)?**

Staff development programmes in last 2 years:

Academic Staff Development Programme	No. of Faculty
Refresher Course	13
HRD Programme	0
Orientation Programme	11
Staff Training conducted by the University	2
Staff Training conducted by other Universities	3
Summer/Winter Schools, workshops etc.	8

**2.4.9 What percentage of the faculty have**

- \* been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies?

25%

- \* participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies?

60%

- \* presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies?

40%

- \* teaching experience in other universities / national institutions and other institutions?

15%

\* industrial engagement?

4%

\* international experience in teaching?

2%

[Details provided in departmental profile]

**2.4.10 How often does the university organize academic development programmes (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

Members (internal & external experts) of Board of Studies of each department meet regularly and discuss the matter of modification and rectification of curriculum. Development of curriculum and related matters to enrich the teaching learning process usually take place once in 4 years on an average.

**2.4.11 Does the university have a mechanism to encourage**

\* Mobility of faculty between universities for teaching?

\* Faculty exchange programmes with national and international bodies?

\* If yes, how have these schemes helped in enriching the quality of the faculty?

University permits faculty members to deliver lectures or take classes in other universities and research institutes. Guest faculty of other universities also take classes in the University. The university sanctions paid leave for such kind of activity wherever necessary.

International Mobility programs that Faculty and Students of our University have participated in during 2011-2015.

**1. Erasmus Mundus External Cooperation Window for India (EMECWI), Action II Programme, Lot 13, EURINDIA Mobilization Programme,**

**Till –Aug 2013**

***Participating Universities of EU***

- KTH, Royal Institute of Technology, Sweden (Coordinating Institute )
- Ghent University, Belgium
- Institute of Chemical Technology, Prague, Czech Republic
- Karlsruhe University of Applied Sciences, Karlsruhe, Germany
- Katholieke Universiteit Leuven, Belgium (sub Coordinator)
- Politecnico di Torino, Italy (sub Coordinator)
- TU Delft, The Netherlands
- University de Girona, Spain
- Universitat Gottingen, Germany

***Participating Universities of India***

- Anna University (sub Coordinator)
- Indian Institute of Technology, Guwahati
- Indian Institute of Technology, Roorkee
- National Law School of Indian University ,Bangalore.
- Tamil Nadu Agricultural University

- **University of Kalyani (sub coordinator)**

- University of Pune

## 2. DAAD Fellowship

- Dr. Anirban Mukhopadhyay, Department of Computer Science & Engineering visited the Georg-August University of Göttingen, Germany in 2013.

## 3. ICTP Italy, Visiting Scientist

Prof. Arunava Chakranorti, Dept. of Physics in 2013

## 4. International Bilateral Exchange Programme

- Dr. Samares Pal, Department of Mathematics, KU at National Centre for Theoretical Sciences (NCTS), National TsingHua University, Taiwan in 2014
- Dr. Byasdeb Dasgupta, Department of Economics, KU visited Foundation Maison des Sciences la' Hommes (FMSH), Paris through Indo-French Bilateral Social Scientist Exchange Programme
- Dr. Soma Mukherjee, Department of Environmental Science, KU visited Institute of Chemistry, Laboratory of Organic Chemistry, University of Neuchatel, Switzerland through Indo-Swiss Joint Utilization of Advance Facility (JUAF) supported jointly by DST, New Delhi and EPFL, Lausanne, Switzerland in 2011 for one month as Visiting Scientist.
- Dr. Soma Mukherjee, Department of Environmental Science, KU visited Institute of Chemistry, Laboratory of Organic Chemistry, University of Neuchatel, Switzerland through Short Research Fellowship from the University of Neuchatel, Switzerland during 11<sup>th</sup> May- 26<sup>th</sup> May, 2013 as Visiting Scientist.

## 5. Visiting Faculty

- Prof. Goutam Paul, Dept. of Physiology, K.U. to Birmingham University, United Kingdom in 2013.
- Prof. Goutam Paul, Dept. of Physiology, K.U. to National University of Singapore, in 2014.
- Prof. Samir Mukherjee, Dept. of Microbiology, K. U. to Nagoya University, Japan in 2014.
- Prof. Samir Mukherjee, Dept. of Microbiology, K. U. to Kyushu Okinawa Agriculture Research Station, Japan in 2014.

## 6. Visiting / Guest Research Scientist

- Dr. Angshuman Bagchi, Biochemistry-Biophysics Department, KU at Department of Computer Science, Hong Kong Baptist University, Hong Kong during 02.01.2014 to 12.05.2014
- Dr. Subhas Chandra Debnath, Department of Chemistry, KU at Leibniz Institute of Polymer Research Dresden, Hohe Strasse 6, 01069 Dresden, Germany during 01-02-2012 to 31-01-2013.

## 7. Collaborative International Research Projects of our Faculty members

### (i) Prof. Debasis Chatterjee, Department of Chemistry, K.U.

Partner Institute abroad	Operational Mode
KTH, Stockholm, Sweden.	Joint Research Programme funded by SIDA and RGDWM, Govt. of India.
Swiss Federal Institute for Environmental Science and Technology, SANDEC, Dübendorf, Switzerland.	<b>Field Study – 2</b> (Funded by EAWAG).
Grenoble University, France.	Joint Research Programme funded by Indo - French Research Council.
University of Manchester, U.K.	Joint Field Study for 4 British Ph.D Students (Funded by NERC ,UKIERI ).

Partner Institute abroad	Operational Mode
Karlsruhe University, Germany	Joint Research Programme funded by DFG-BMZ ). DAAD Scholarship awarded for KU Ph.D student to work in Germany – 2.
Institute fur Technology and Science, Karlsruhe University, Germany.	Visit of Two German Student under EURINDIA EMECW Action II programme.
Kansas state University, USA	Joint field study under IUSSTF-RISE programme.
Public Health Department, University of Michigan, USA	Joint Research Programme under US Trehan funding).
Lund University, Sweden.	Collaborative field study and visit of 2 Swedish students for Joint Master dissertation – 2 ( funded by SIDA).

**(ii) Prof. Swati De, Department of Chemistry, K. U.**

Partner Institute abroad	Operational Mode
Lund University, Sweden.	Indo-Swedish collaborative SIDA project funded by Swedish Research Council, Stockholm during 2009-2012.

**(iii) International Centre For Ecological Engineering**

Partner Institutes abroad	Operational Mode
Solar Spring, Germany Technical University of Catalonia, Barcelona, Spain AUTARCON, Germany HTW-Dresden, Germany	DST sponsored Indo-EU collaborative project on Safeguarding Water Resources in India using Green and Sustainable Technologies (SWINGS).

**(iv) Prof. A. R. Khuda Baksh (now retired), Dept. of Zoology**

Partner Institutes abroad	Operational Mode
Boiron Laboratory, France	Boiron sponsored collaborative project on during 2009-2013.

## 2.5 Evaluation Process and Reforms

### 2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?

University provides 'Prospectus' to students for every year before commencement of classes where academic calendar shows the date of evaluation for each semester. Academic calendar is also uploaded in the website of the University. The Controller of Examinations uploads the dates of Examination in University's website as and when necessary. Moreover, HODs of respective departments display the dates of Examination in the notice board of their respective departments. University uploads the PG regulations in the website where all the stakeholders can find the details of Evaluation system.

### 2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

**Evaluations:** The main features of evaluation reforms are mentioned below:

Semester system and credit based system have been introduced, from the year 2009 in all the PG courses.

1. The evaluation scheme for each course shall contain two parts:

- (a) Term-end evaluation and
- (b) In-Semester Assessment

The weightage given to Term-end evaluation and the In-Semester assessment is 60:40 and is highlighted in the Course/Syllabus outline of each Department. Each Department formulates its own method of In-Semester Assessment, which is communicated to the students at the beginning of the course.

2. In order to qualify in a semester examination, a student has to get minimum aggregate 40% marks / 40 points (D and above on grade point scale) in each course.
3. To ensure transparency of the evaluation process, the In-Semester assessment grade awarded to the students in each course in a semester is published and put up on the notice board of the Department, at least one week before the commencement of Term-end examination.
4. Grading system: For Course & Credit System, the semester end and final grade sheets and transcripts shall have points (scores on 100%), grades and grade point average.

QUALIFICATION	GRADE	SCORE ON 100% POINTS	POINTS
Outstanding	O	90 & above up to 100	10
Excellent	E	80 & above up to 89	9
Very Good	A	70 & above up to 79	8
Good	B	60 & above up to 69	7
Fair	C	50 & above up to 59	6
Pass	D	40 & above up to 49	5
Fail	F	Below 40	

$$\text{SGPA} = \frac{\text{Sum of [Credits X Grade Point]}}{\text{Sum of credits of all papers in that Semester}} \text{ calculated for each Semester}$$

To satisfactorily complete the M.Sc. Course & qualify for the degree, a student must obtain a minimum CGPA of 5.

CGPA of 8 & above up to 10.0 = 1st Class with Distinction

CGPA of 6.5 & above up to 7.9 = 1st Class

CGPA of 5.5 & above up to 6.4 = 2nd Class

CGPA of 6 = 2nd Class with 55%

CGPA of 5 & above up to 5.4 = 3rd Class

**Entrance test of PG admission:** University has introduced OMR based answer sheets from the year 2015 to avoid subjective scoring and to ensure objectivity in scoring answer scripts. University has completed the admission process successfully.

**Ph.D. coursework:** Some of the departments introduced **open book examination** in the Term-end examination of Ph.D. coursework of one semester duration.

**2.5.3 What is the average time taken by the university for declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the university for the publication of examination results (e.g. website, SMS, email, etc.).**

**PG level:** Result is published within 45 days of completion of Term-end examination. However, marks of In-term Assessment are displayed in departmental notice board before commencement of Term-end examination. Results of all the Examinations are uploaded in University's website.

**UG level:** Result is published within 60 days of completion of final examination. The same is publicized in the leading newspaper as well as in the website.

**2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?**

**University ensures transparency by the following ways:**

**PG entrance test:** University has introduced OMR based answer sheets from the year 2015 to avoid subjective scoring and to ensure the transparency in scoring answer scripts.

**PG level:** The answer scripts of In-term Assessment are shown to the students to ensure transparency in evaluation process. Moreover, the In-Semester assessment grade awarded to the students in each course in a semester is published and put up on the notice board of the Department, at least one week before the commencement of Term-end examination. University permits students to re-evaluate (review) of the answer scripts of Term-End examination. Moreover, any examinee can look into the evaluated answer scripts on payment basis.

**Ph.D. Coursework:** All assignment during the semester are shown to scholars after scoring.

**UG level:** UG boards comprise of members from colleges as well as university. The board of moderators comprises of both external members and internal members.

The following measures are taken for the evaluation of answer scripts.

- (i) Examined by approved panel of examiners, both internal and external.
- (ii) Scrutiny of answer scripts.
- (iii) Marks posted by data entry operators and checked by tabulators.
- (iv) Spot evaluation of the answer scripts.
- (v) Review and preview of evaluation answer scripts on payment basis.

**University ensures confidentiality by adopting the following measures:**

Coding (dummy number) in answer scripts is used before distributing them to examiners for evaluating. Question paper dispatched by the paper setters is opened in the confidential room of the controller of examination department, during moderation. Multiple set of question papers are prepared.

#### **2.5.5 Does the university have an integrated examination platform for the following processes?**

- \* **Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.**
- \* **Examination process – Examination material management, logistics, etc.**
- \* **Post-examination process – Attendance capture, OMR-based exam result, auto processing, generic result processing, certification, etc.**

**Pre-Examination Process:** Board of Studies/Departmental committee prepares the list of eligible students to appear in the examinations considering their attendance. Then Controller Department prepares the admit cards, roll list, attendance sheet and sends them to the respective department. Departmental Head then prepares the Invigilation duty list.

At UG level subject specific BOS prepares all the examination related matters. It is thereby informed to the controller department and controller of examinations who finalize the date of examination. Then Controller department prepares the admit cards, roll list, attendance sheet and sends them to respective colleges. University does not allow home centre at UG level. Then Principal/ TIC prepares the further arrangements for conducting the examination.

**Examination Process:** At PG level all the examinations are held at the respective department. All the logistics and materials related to examination are provided centrally by the Controller Department of the University maintaining full confidentiality.

**Post-Examination process:** The attendance of all the examinees are collected and processed. The answer scripts are sealed in enveloped in the safe custody of the examination in-charge and dispatched to the CE. In the controller's department, all answer scripts are encoded randomly before sending to evaluators. After evaluating the answer scripts the award lists are sent to the controller department. Then the answer scripts are scrutinized and head examined. The marks are tabulated and final marks sheet are prepared through computer software. The results are published in University's website.



University introduces OMR based answer sheet at PG entrance test.

#### **2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?**

University follows all the evaluation processes as mentioned in the new UGC Ph.D. regulations 2009, eg, entrance test followed by interview for selection of scholars, Ph.D. coursework and its evaluation, pre-submission lectures and open viva credit transfer for course work is also permitted both Inter- and intra.

However, some of the departments introduce **open book examination** in their Ph.D. Coursework Examinations.

#### **2.5.7 Has the university created any provision for including the name of the college in the degree certificate?**

This system is yet to be introduced.

#### **2.5.8 What is the mechanism for redressal of grievances with reference to examinations?**

Any grievances regarding examination related matter is addressed to the Controller of Examinations of the University through Head of the Department or Principal/TIC of colleges. University provides opportunities to the student to apply for review, post publication scrutiny, preview of answer scripts on payment basis.

#### **2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.**

To streamline the operations at the Office of the Controller of Examinations the following efforts are taken to improve the process and function of the Examination:

- All types of work related to examination and evaluation are computerized.
- Some govt. affiliated colleges are now considered for distribution of question paper and receiving the answer scripts. Answer scripts are given to examiners from these decentralized specific centers and examiners have to return the answer scripts to the controller sections.

### **2.6. Student Performance and Learning Outcomes**

#### **2.6.1 Has the university articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?**

University articulates the graduate attributes by building the self confidence, sincerity among the students. The University enforces these qualities through classroom teaching and the activities outside the classroom. NSS and NCC also try to fulfill the mentioned objectives by developing social role and responsibilities. University introduces some facilities for improving the soft skills of students and research scholars for their job opportunities. The Dean of Student's Welfare organizes every year a number of such programmes.

#### **2.6.2 Does the university have clearly stated learning outcomes for its academic programmes? If yes, give details on how the students and staff are made aware of these?**

Courses of any academic programme clearly state the objectives in behavioral terms which indicate the expected learning outcome of the student. These behavioral objectives act as guideposts of the courses.

Moreover, the Mission and Vision of the University which are clearly written in its website make students and staffs aware about the University's objectives.

#### **2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

The following strategies of the University help to facilitate the achievement of the intended outcomes:

- Introduction of modern and pertinent syllabus.

- Modular assembly of syllabus for gradual student progression.
- Introduction of CBCS.
- Introduction of credit based.
- Providing equal access to all resources.
- Introduction of SMART classroom emphasizing interactive classroom.
- Provision of Tutorial classes.
- Introduction of Continuous Evaluation strategy by adopting In-term assessment and Term-end Evaluation.
- Constructive criticism by giving and showing feedback in In-term Assessment.
- Uniform credit structure and other regulation.

#### **2.6.4 How does the university collect and analyse data on student learning outcomes and use it to overcome the barriers to learning?**

Alumni associations of different departments provide appropriate feedback regarding the effectiveness of the teaching-learning process and outcome. Faculty members are evaluated by the students of respective department in every semester by a questionnaire developed by the IQAC of the University. IQAC and DC collect and analyze the information for improvement.

#### **2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?**

University deploys the following strategies in enhancing learning and evaluation:

- Introduction of modern scientific and technology oriented programmes.
- Introduction of CBCS.
- Introduction of credit system in evaluation.
- Introduction of SMART classroom at PG level.
- Free internet services throughout the campus and halls of residence.
- Providing computers to each faculty member and free internet services.
- Sufficient hostel accommodations for the students to enhance the available time of learning.
- Improved infrastructural facilities such as modern scientific instruments, well-equipped central computing facility, animal house, e-enabled library, access to use then 18,000 e-journals and database, increased library hours, improved residential facilities, improved transportation facilities, improved health service. The university continues to develop its repertoire to meet future.



## CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

### 3.1 Promotion of Research

**3.1.1. Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Yes. The statutory committee (board of research studies) monitors and addresses issues related to the research on a regular basis. It is composed of members as Hon. Vice Chancellor as the Chairperson. Deans of the faculties and faculty members (relevant for the research issue discussed in the meeting) are the members of the board of research studies. The board regularly meets to look into and resolve the research related issues.

**3.1.2. What is the policy of the university to promote research in its affiliated / constituent colleges?**

University encourages research in its affiliated/ constituent colleges. Teachers from the affiliated/ constituent colleges carry out research independently as well as in collaboration with University (present and as well as other University) as a part of career advancement and for the growth and development of the respective subject/ department and as a whole for the University. A major policy decision is taken that the permission given to college teachers to supervise Ph.D. students as independent supervisors/guides.

**3.1.3. What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?**

**Advancing funds for sanctioned projects, providing seed money, simplification of procedures related to sanctions / purchases to be made by the investigators, autonomy to the principal investigator/coordinator for utilizing overhead charges, timely release of grants, timely auditing, submission of utilization certificate to the funding authorities**

University provides research support in form of providing research scholar to the faculties along with financial aids, reimbursement of research expenditure to its faculties and students on a regular basis. University has a central purchase committee and purchase subcommittees to monitor and provide expertise in the purchase related matters to the investigators. The auditing and utilization certificates are monitored on a timely basis. Funds from DST PURSE program, UGC SAP program are provided to encourage research among faculties on a regular basis.

**3.1.4. How is interdisciplinary research promoted?**

**between/among different departments /schools of the university and collaboration with national/international institutes / industries.**

University encourages interdisciplinary research between different departments of the university and collaborates with national and international institutes. Faculties from different departments collaborate and publish joint papers on a regular basis and also publish with national and international collaborators. Moreover, joint research projects are also submitted to different agencies for funding and the funded projects are accordingly implemented.

**3.1.5 Give details of workshops/ training programmes/ sensitization programmes conducted by the university to promote a research culture on campus.**

Various departments and centres of the University organize workshops/ seminars/ conferences (both national and international level) on a regular basis. University also provides financial support as much as possible in such workshops/ seminars/ conferences. Details are provided in the individual departmental profiles.

**3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?**

Although there is no Adjunct Professor position, several researchers of eminence visit campus regularly for short and long stay as reflected in the details provided in the individual departmental profiles. A part of the UGC unassigned grant is used for the purpose. Moreover, the University has introduced distinguished lecture series where eminent researchers come and motivate our researchers.

**3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization.**

Year	2011-12	2012-13	2013-14	2014-15
PRG	9.97	12.99	11.41	11.88
URG	3.26	3.34	4.5	4.06
URS	94.78	100.42	137.38	144.54
Journal subscription	53.65	55.25	53.26	56.6
Travel fund (from unassigned grant)	10.3	11.23	8.48	11.6
Total	171.96	183.23	215.03	228.68
Percentage of total budget	11.5%	14.4%	15.71%	16.71%

**3.1.8 In its budget, does the university earmark funds for promoting research in its affiliated colleges? If yes, provide details.**

No

**3.1.9 Does the university encourage research by awarding Post Doctoral Fellowships/Research Associate ships? If yes, provide details like number of students registered, funding by the university and other sources.**

Although there is no award of postdoctoral scholarship by the University, there are a number of post doctoral scholars in various departments supported by different funding agencies such as UGC, DST, CSIR etc. at different points of time. Details are provided in the individual departmental profiles. During the last three years, ten research associates were employed through DST PURSE programme to work in various departments.

**3.1.10 What percentage of faculty has utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?**

Several faculty members go abroad for short and long stay. However, there is no sabbatical leave rule for all faculties. Details are provided in the individual departmental profiles. The University provides a maximum of two years of study leave for this purpose.

**3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.**

Total number of conferences/Seminars/Workshops organized in last four years are as follows.

Year	2011-12	2012-13	2013-14	2014-15
Number	17	35	58	44

Further details of the natures of conferences such as international, national, regional or state for recent conferences organized by various departments are as follows.

Year	Numbers of various types			
	International	National	Regional/State	Total
<b>2013-2014</b>	08	18	32	58
<b>2014-2015</b>	03	11	30	44

*Distinguished Lectures delivered by Eminent Academicians:*

1. First Distinguished Lecture entitled “*Dream to Bring Science to Society*” delivered by Professor Asis Datta, F.N.A. and Professor of Distinguished Scientist at National Institute of Plant Genome Research, New Delhi on 31<sup>st</sup> March, 2014.
2. Second Distinguished Lecture entitled “*Lion’s Share : What is Behind China’s Economic Slowdown*” delivered by Professor Guilhem Fabre, University of Le Havre, France on 23<sup>rd</sup> April, 2014.
3. Third Distinguished Lecture entitled “*The Changing Portrait of DNA Structure and Genetic Material*” delivered by Professor K. Muniyappa, Chairman of the Department of Biochemistry, Indian Institute of Science, Bangalore on 22<sup>nd</sup> October, 2014.
4. Fourth Distinguished Lecture entitled “*Combating Disabling Diseases by Food : From Embryo to Old Life*” delivered by Professor Asim K. Duttaroy, Faculty of Medicine, University of Oslo, Norway on 14<sup>th</sup> January, 2015.
5. Fifth Distinguished Lecture entitled “*Origin of Life*” delivered by Professor Sankar Chatterjee, Paul Whitfield Horn Professor of Geosciences, Museum of Texas Tech University, U.S.A. on 13<sup>th</sup> April, 2015.
6. Sixth Distinguished Lecture entitled “*Modalities of Indian Urbanism*” delivered by Professor Swati Chattopadhyay, Professor, History of Art and Architecture, University of California, Santa Barbara, U.S.A. on 20<sup>th</sup> August, 2015.

*Special Lectures delivered by Eminent Academicians:*

1. Special Lecture entitled “*Innovation in Life Science : Opportunities to Collaborate and Grow Together*” delivered by Dr. Santanu Dasgupta, Vice President, Head of Biology, Reliance Technology Group, Reliance Industries Limited on 30<sup>th</sup> January, 2015.
2. Special Lecture entitled “*Calcium Phosphate based Inorganic material in Bone Tissue Engineering and Drug Delivery*” delivered by Professor Susmita Bose, Chair Professor, Washington State University, Pullman, U.S. A. on 6<sup>th</sup> January, 2016.
3. Special Lecture entitled “*Additive Manufacturing of Hard Materials*” delivered by Professor Amit Bandhyopadhyay, Chair Professor, Washington State University, Pullman, U.S. A. on 6<sup>th</sup> January, 2016.

A list of noted educationists/scientists/academicians/professional experts who came for special lectures at various departments and/or centers are provided below

Prof. Sanghamitra Bandopadhyay, MIU, ISI, Kolkata; Prof. Chilikuru Mohan, Syracuse University, USA; Prof. Sukumar Nanidi, IIT Guhawati; Prof. Ujjwal Maulik, Jadavpur University; Prof. Subir Sarkar, Jadavpur University; Prof. P. K. Roy, Emiratus Scientist, APIIT; Dr. Debasish Jana, TEOCO Software, Kolkata; Prof. Paramartha Dutta, Viswa-bharati University; Prof. B. B. Chowdhury, ISI, Kolkata; Prof. Rajkumar Buyya, Melbourne University, Australia; Prof. A. K. Pujari, Hyderabad Central University; Dr. Vikrant Bhateja, Shri Ramswaroop Memorial Group of Professional Colleges; Prof. Binay Bhattacharya, Simon Fraser University, British Columbia, Canada; Prof. Sanghamitra Bandopadhyay, Machine Intelligence Unit, Indian Statistical Institute, Kolkata; Prof. Ujjwal Maulik, Deptment of CSE, Jadavpur University; Prof. A. K. Roy, Director, IEST, Shibpur, Kolkata; Prof. M. Mitra, Deptment of Mathematics, IEST, Shibpur; Dr. Ansuman Banerjee, Advanced Computing and

Microelectronics Unit, Indian Statistical Institute, Kolkata; Dr. Sasthi Charan Ghosh, Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata; Dr. Partha Bhowmick, Department of Computer Science & Engineering, IIT Kharagpur, India; Prof. S. Satapathy, ANITS, Andhra Pradesh, India.; Dr. V. Bhateja, Shri Ramswaroop Memorial Group of Professional Colleges; Prof. C.K. Rosen, University of Derby; Prof. H. Lali, University of Derby, Prof. A. Chandra, IIT-Kanpur, Prof. S. Bhattacharyya, JU, Kolkata; Prof. K. Bhattacharyya, IACS, Kolkata and many others.

A list of conferences organized in various departments during 2014-2015 is given as follows.

Name of Department	International	National	Regional/State	Total
Adult, Continuing Education & Extension		01		01
Bengali		02		02
Economics		01		01
English		01	07	08
Folklore		01	10	11
History	01			01
Library & Information Science		01		01
Political Science			02	02
Botany		02		02
Environmental Science			01	02
Geography			01	02
Molecular Biology & Biotechnology			04	04
Physiology			02	02
Statistics			01	01
Zoology		01		01
Computer Science & Engineering	01			01
Environmental Management	01			01
Visual Arts		01	02	03

### 3.2. Resource Mobilization for Research

#### 3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?

Several departments provide support from available departmental funding for carrying out master's level project as well as advanced projects. The University has budgetary provisions of supporting the student's research through project work, attending seminars and presenting papers.

#### 3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Yes, the University encourages the faculties to file patents. Details of patents are provided in the individual departmental profiles.

#### 3.2.3. Provide the following details of ongoing research projects of faculty:

Sl. No.	Funding Agency	Name of the Supervisor (s)/ Deptt.	Title of the Project	Amount Sanctioned	Tenure
1	Govt. of India	Prof. S.C. Santra, Dept. of Env. Science	ENVIS Centre	1049000.00	3 yrs
2	ICSSR	Dr. Byasdeb Dasgupta, Dept. of Economics	Labour Security in - Informal Economy	779375	3 yrs
3	DAE	Dr. Tapati Chakraborti, Dept. of Biochemistry	“Studies on naturally occurring serine protease inhibitor(s) from <i>Coccinia grandis</i> (L) Voigt in the modulation of host cell signaling and cellular invasion by <i>Leishmania donovani</i> ”	24,07,250	3yrs (W.e.f. 3.5.2013)
4	ICSSR	Dr. Byasdeb Dasgupta, Dept. of Economics	A multi Dimensional study ---- globalization	1428330	2 yrs

Sl. No.	Funding Agency	Name of the Supervisor (s)/ Deptt.	Title of the Project	Amount Sanctioned	Tenure
5	DAE	Dr. Tapas Kumar Bandyopadhyay, Dept. of Biotechnology	“Development of vernalization insensitive mutants of limonium sinensis through in vitro induced mutagenesis and molecular studies of the mutants”	24,28,000	3 yrs (W.e.f. 12.8.2013)
6	SERB	Dr. Neera Sen Sarkar, Dept. of Botany	Study on - Indian Sundarbans	2,390,000.00	3 yrs
7	Govt. of West Bengal	Prof. S.C. Santra, Dept. of Env. Science	An investigation on - arsenic areas of West Bengal	1331400	3 yrs
8	DST	Dr. Kumaresh Ghosh, Dept. of Chemistry	Design and - Substrates	4590000	3yrs
9	DST	Prof. B.B. Jana and Dr. Susmita Lahiri, Dept. of Env. Management	SWINGS Project	50,52,000	3 yrs
10	DST	Prof. Shital Kr. Chattopadhyay, Dept. of Chemistry	“ Diversity oriented synthesis of some naturally occurring alkaloids and analogues thereof	51,88,000	3 yrs (W.e.f. 4.6.2013)
11	DST	Prof. Dilip Mukherjee, Dept. of Zoology	Cloning of development expression of cytochrome P450 aromatase gene (CYP19) in a major carp Labeo rohita”	3,270,000.00	3 yrs (W.e.f. 13.9.2013)
12	DST	Dr. Manirul Islam, Dept. of Chemistry	“Development of some new immobilized recyclable chiral catalysts: Applications, Kinetics & mechanistic studies”	2,800,000.00	3 yrs (W.e.f. 23.8.2013)
13	DST	Prof. Nilashis Nandi, Dept. of Chemistry	“Computational study of the structure and dynamics of aminoacyl-tRNA synthetases”	50,90,000	3 yrs (W.e.f. 14.11.2013)
14	DBT	Dr. Samir Kumar Mukherjee, Dept. of Microbiology	“Study of Arsenic resistant rhizobacterial diversity. having plant growth promoting activities”	39,00,000	3 yrs (W.e.f. 8.11.2015)
15	DBT	Dr. Utpal Ghosh, Dept. of Biochemistry	“Regulation of biogenesis of telomeric RNA (TERRA) and its role in telomere length maintenance”	4431600	3 yrs (till 31.5.2016)
16	DRDO	Dr. Partha Pratim Sarkar, Dept. of DETS	Design and analysis - a give Randome Model	500000	3 yrs
17	ICSSR	Dr. Byasdeb Dasgupta, Dept. of Econimics	“Class and Caste: In Need of a Theoretical and Empirical Re-Examination”	1000000	2 yrs (W.e.f. 10.3.2014)
18	ICAR	Prof. Animesh Kumar Datta, Dept. of Botany	Identification and -- in jute	470000	3 yrs
19	ICMR	Dr. Tapati Chakraborti, Dept. of Biochemistry	Biochemical --- Stimulation	1302655	2 yrs
20	Govt. of India	Prof. Samita Manna, Dept. of Sociology	Ministry of Tribal --- of Girl Childred	250000	3 yrs
21	CSIR	Dr. Manindra Nath Bera, Dept. of Chemistry	“New Dinuclear 3d Transition Metal Complexes of Carboxylate Rich Ligands: Synthesis, Characterization and Catalytic Activity towardsthe Glycoside Hydrolysis and Aldose-Ketose Interconversion Reactions”	19,00,000	3 yrs (From 1.5.13)
22	CSIR	Dr. Tapati Chakraborti, Dept. of Biochemistry	Stuides on leishain Lishmaniasis	1742000	3 yrs



Sl. No.	Funding Agency	Name of the Supervisor (s)/ Deptt.	Title of the Project	Amount Sanctioned	Tenure
23	CSIR	Dr. Sajal Chakraborti, Dept. of Biochemistry	Studies on Cell Membrane	2192000	3 yrs
24	CSIR	Dr. Kakali Bhadra, Dept. of Zoology	Therapeutic Biological Perspectives	2692000	3 yrs
25	CSIR	Dr. Manirul Islam, Dept. of Chemistry	Development of Reaction	2092000	3yrs
26	UGC	Dr. Sanjib Mridha	SC/ST Coaching Class.....	230929.00	Contd...
27	UGC	Dr. Goutam Paul, Dept. of Physiology	Effect of bisphonal.. Physiological Study	745300	3 yrs
28	UGC	Dr. Soma Mukherjee, Dept. of Env. Sc.	Structural and .... Application	881800	3 yrs
29	UGC	Head Dept. of Chemistry	Basic Scientific Research	4000000	3yrs
30	UGC	Prof. Samita Manna, Dept. of Sociology	Decline child sex... Nadia Dist.	802100	2 yrs
31	UGC	Dr. Tarakdas Basu, Dept. of Biochemistry	Role of Chaperone protein Extremes DNA	13,55,800	3 yrs
32	CSIR Sponsored Project	Dr. Tripti De, (CSIR Emeritus Scientist) Department of Biochemistry & Biophysics	“Activation of TLR-pathway by galactosylated flavonoids and terpenoids for immunotherapy for drug refractory and susceptible Leishmania donovani infection”	426000	3Years (1.1.2014)
33	UGC-DAE CSR, KC Collaborative Research scheme	Dr. Keka Sarkar (PI), Deptt. of Microbiology and Dr. Manirul Islam(Co-PI), Deptt. of Chemistry	“Evaluation of potential of metal nanoparticles as possible modulators of radiation induced cell effect”	900000	3Years (1.1.2014)
34	UGC-DAE CSR, KC Collaborative Research scheme	Prof. Swati De, Dept. of Chemistry	“Synthesis of Novel TiO <sub>2</sub> Nanomaterials and Nanocomposites Employing $\gamma$ -irradiation and other Techniques”	100000	1 year (W.e.f. 1.1.14)
35	Indian Council of Social Science & Research (ICSSR)	Prof. Samita Manna, Department of Sociology	“ Nachni-An Endangered Marginalized Second Sex: Identity Crisis and Strategies for Survival”	1,300,000	3 years (7.7.2014)
36	CSIR Sponsored Project	Dr. Abhijit Banerjee, Dept of Mathematics	“ Some investigations on the uniqueness properties of entire and meromorphic function and related topics	207000	3 years (1.10.2014)
37	DST-SERB	Dr. Samares Pal, Department of Mathematics	“Effects of Herb-toxin and Insecticide Runoff on Coralreef Ecosystem”	1102080	3 years (4.9.2014)
38	DST	Prof. Sujata Choudhuri, Dept.. of Botany	FIST Programme	85,50,000	5 Yrs.
39	ICSSR	Prof. Samita Manna, Dept. of Sociology	Nachri - an Endangered --- for survival	13,00,000	2 Yrs
40	DST-SERB	Prof. A.P. Chattopadhyay (Co-PI) and Dr. Samir Kumar Mondal (PI), Dept. of Chemistry	Strategies for ---- analogues	23,10,000	3 Yrs
41	DST-SERB	Dr. Samares Pal, Dept. of Mathematics	Effects of ---- Ecosystem	11.02.080	3 Yrs.
42	ICHR	Prof. Rattan Lal Hangloo, Vice-Chancellor	Trade & Politics on 19th Centuries	1,70,000	2 Yrs

Sl. No.	Funding Agency	Name of the Supervisor (s)/ Deptt.	Title of the Project	Amount Sanctioned	Tenure
43	DST-SERB	Prof. Tapati Chakraborti, Dept. of Biochemistry	Role of naturally ---- donavoni	42,67,200	3 yrs
44	DST-West Bengal	Dr. Kumaresh Ghosh, Chemistry	Design and Synthesis ----- onion recognition	13,98,000	3 yrs
45	DST-West Bengal	Prof. S.C. Debnath, Dept. of Chemistry	Effect of Nano --- Synthetic Rubber	11,93,000	3 yrs
46	AIDS-West Bengal	Dr. Sukhen Biswas, Coordinator, NSS	Red Ribban Club activities - NSS 2014-2015	1,20,000	1 yr
47	DAE	Dr. Priya Ranjan Sinha, Computer Science	Variation of enclosing ---- objects	9,95,000	3 yrs
48	NABARD	Dr. Sujata Sen, Dept. of Sociology	Status of Rural ---- districts of West Bengal	4,00,000	07 months
49	NASI	Dr. Sankar Narayan Sinha, Dept. of Botany	Screening of Antibacterial ---- women diseases	325600.00	1 yr
50	NASI	Dr. Tanima Saha, Dept. of Molecular Biology	Isolation characterzition ---- cultivating Zones of Nadia	325600.00	1 yr
51	NASI	Dr. Soma Mukherjee, Dept. of Env. Science	Development of chemasensors - --- toxic ions	325600	1 yr
52	CSIR	Dr. Subhratanu Bhattacharyya, Dept. Of Physics	Studies of ... Ionic Fluids	1692000	3 yrs
53	CSIR	Dr. Abhijit Banerjee, Dept. of Mathematics	Some Investigation... Related Topic	207000	3 yrs
54	CSIR	Dr. Shital Chatterjee, Dept. of Chemistry	Diversity oriented... Biological Relevance	2142000	3yrs
55	UGC	Dr. Ekramul Islam, Dept. of Microbiology	BSR Start up Grant	600000	1 yr
56	UGC	Dr. Arabinda Karmakar, Physics	BSR Start up Grant	600000	1 yr
57	DST	Prof. Swati Dey, Dept. of Chemistry	*Metal-based Fluorescent Nanoparticles in Bio-mimicking and Biologically Relevant assemblies- Synthesis, Characterization and Possible Applications	5488000	3 yrs
58	KIIT	Prof. Debashis Chatterjee, Dept. of Chemistry	Assessing the ..... Strategy in West Bengal		
59	DBT	Dr. Zahed Hossain, Dept. of Botany	Antioxidate .. Arsenic Exposure		
60	DBT	Dr. Angshuman Bagchi, Dept. of Biochemistry	Insight into ..... propagation		
61	DST	Dr. Subhratanu Bhattacharyya, Dept. Of Physics	Study of Machanical ..... Lithium ion batteries	3874080	3 yrs.
62	DST	Dept. of Biochemistry & Biophysics	FIST Programme	9950000	5 yrs.
63	DST	Dr. Tapas Majumder, Dept. of Chemistry	Development of ..... Computational Chemistry	3155967	3 yrs.
64	IUAC	Dr. Utpal Ghosh, Dept. of Biochemistry	Investigation of DNA ..... cultured Human Cells		3 yrs.
65	UGC	Prof. Samaresh Pal - Coordinator, Dept. of Mathematics	DRS SAP - II		5 yrs.
66	UGC	Dr. Manirul Islam, Dept. of Chemistry	A Novel ..... Pathray	1463600	3 yrs.
67	UGC	Dr. Samares Pal, Dept. of Mathematics	Role of nutrient ..... Mathematical observation	1062500	3 yrs.

Sl. No.	Funding Agency	Name of the Supervisor (s)/ Deptt.	Title of the Project	Amount Sanctioned	Tenure
68	UGC	Prof. Sarbani Chaudhury, Dept. of English	Shakespeare criticism ..... Interrogation	1149600	3 yrs.

Data of ongoing and few completed departmental projects such as DST PURSE, DST FIST, UGC SAP and similar programs are provided separately in item 3.2.5.

**3.2.4. Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.**

Funding Agency	Name of the Supervisor(s)/Deptt.	Title of Project	Amount Sanctioned
EURINDIA	Prof. Debashis Chatterjee, Dept. of Chemistry	Eurindia networking Programme	67895.00
London school of Hygiene and Tropical Medicine	Prof. Debashis Chatterjee, Dept. of Chemistry	Assessing the effectiveness...Arsenic migration in West Bengal	30,08,250
USA	Prof. Debashis Chatterjee, Dept. of Chemistry	Project from USA	19,65,127
Logitech India Pvt Ltd, Chennai	Prof. J.K. Mandal, Dept. of Computer Science and Engineering	Extending infrastructure for research collaboration leading to Ph.D.	Infrastructural grant

**3.2.5. How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

**Ongoing and completed departmental projects**

Sl. No.	Funding Agency	Name of the Supervisor(s)/Deptt.	Title of Project	Amount Sanctioned	Status
1.	Govt. of India	Prof. S.C. Santra, Dept. of Env. Science	ENVIS Centre	1049000.00	Ongoing
2.	DST	Dept. of Chemistry	PURSE Programme	90000000	Ongoing
3.	DST	Dr. Tarakdas Basu, Dept. of Biochemistry Biophysics	FIST Programme	1,10,00,000	Ongoing
4.	DST	Prof. S. Chattopadhyay	FIST Programme	2,39,00,000	Ongoing
5.	DST	HOD, Dept. of Zoology	FIST Programme	5800000	Ongoing
6.	DST	Prof. S.C. Santra, Dept. of Env. Science	FIST Programme	10000000	Ongoing
7.	DST	Prof. Arunava Chakraborty, Dept. of Physics	FIST Programme	2,69,00,000	Ongoing
8.	UGC	Head, Dept. of Zoology	DRS-SAP	2350000	Ongoing
9.	UGC	Head, Dept. of Mathematics	DRS-SAP	1704064	Ongoing
10.	UGC	Head, Dept. of Bio-Chemistry and Biophysics	DRS-SAP-I	4000000	Ongoing
11.	UGC	Prof. N. Nandi, Prof. K. Ghosh, Dept. of Chemistry	DRS-SAP-II	70,00,000	Ongoing
12.	DST-Govt. of W.B	Dept of Chemistry	DST-Govt. of W.B	16,00,000	Ongoing
13.	DST-Govt. of W.B	Dept of Physiology	DST-Govt. of W.B	15,00,000	Ongoing



Sl. No.	Funding Agency	Name of the Supervisor(s)/Deptt.	Title of Project	Amount Sanctioned	Status
14.	DST-Govt. of W.B	Dept of Microbiology	DST-Govt. of W.B	14,00,000	Ongoing
15.	DST-Govt. of W.B	Dept of Molecular Biology	DST-Govt. of W.B	16,00,000	Ongoing
16.	UGC	Dept. of Economics	UGC SAP		Completed (2007-2012)

### 3.2.6. List details of Research projects completed and grants received during the last four years (funded by National/International agencies).

#### Inter-institutional collaborative projects and grants received

#### All India collaboration

#### International

Number of Research Projects sanctioned and funded by the different agencies such as DST, ICSSR, UGC, CSIR, ICHR, NASI, DAE, NABARD etc. Data are as follows. Details of ongoing projects are provided in other relevant item.

Sl. No.	Funding Agency	Name of the Supervisor(s)/Deptt.	Title of Project	Amount Sanctioned	Tenure
1	Govt. of West Bengal funded project (Under the West Bengal Biodiversity Board, Department of Environment)	Dr. A.K. Panigrahi Dept. of Zoology,	“Study on the fish faunal biodiversity with ecological status of water bodies of Nadia & North 24 Parganas districts of West Bengal”	Rs.5,91,000=00	3Years
2	DST Sponsored Research Project	Dr. Sudipta Pal Deptt. Of Physics	“Synthesis characterization and magnetoelectric study of some new oxide composites in search of multiferroic property”	Rs. 6,74,936=00	3Years
3	DST Sponsored Research Project(SERB)	Dr. Swarup Kumar Chattopadhyay Dept. of Chemistry	“The Chemistry of Dirhenium Incorporating the Guanidinate Ligands: From Organometallic to Supramolecular Chemistry and Possible Applications”.	Rs.3,00,000=00	3Years
4	DST (Govt. of India)	Dr. Utpal Ghosh Dept. of Biochemistry & Biophysics	“Functional characterization of interaction of poly (ADP-ribose) polymerase - 1(PARA-1) with telomere-binding proteins”	Rs. 27,03,600=00	3Years,
5	CSIR sponsored Research Project	Prof. Tapati Chakraborti, Deptt. of Biochemistry & Biophysics	“Studies on Leishmania donovani secretory serine protease in host-parasite interaction and immune modulation of visceral leishmaniasis”		
6	UGC(Major Research Pro.)	Dr. Sudha Gupta Deptt. of Botany	Establishment of natural fern spore banks at lowe	Rs.12,82,300=00	3Years

Sl. No.	Funding Agency	Name of the Supervisor(s)/Deptt.	Title of Project	Amount Sanctioned	Tenure
			gangetic plain of West Bengal: A potential source for conservation and regeneration		
7	UGC(Major Research Pro.)	Dr. Keka Sarkar Deptt. of Microbiology	Methods for extractionsand purifcation of environmental DNA from soil approaching...and contruction of metagenomic library	Rs.11, 51,800=00	3Years
8	UGC(Major Research Pro.)	Dr. P. K. Bandyopadhyay Deptt. of Zoology	Diagnostic studies on the occurrence of some protozoan,bacterial, and fungal disease of common edible fishes of West Bengal..availble plant bio-molecules for improvement fish health	Rs.11,15,800=00	3Years
9	DAE	Prof. Sajal Chakraborty, Dept. of Biochemistry	Studies on the ---- music cells	2172750	3 yrs
10	ICSSR	Dr. Madhusudan Dutta, Dept. of Econimics	Final Demand.. Economics	526750	3yrs
11	Govt. of West Bengal	Prof. S.C. Santra, Dept. of Env. Science	An investigation on ---- arsenic areas of West Bengal	1331400	3 yrs
12	DST	Prof. S.C. Santra, Dept. of Env. Science	FIST Programme	10000000	5 yrs
13	DST	Dr. Surojit Chatterjee, Dept. of Chemistry	DST- Design & Synt. Cytotoxic Praperties	2000000	3 yrs
14	DST	Dr. Keka Sarkar, Dept. of Microbiology	Development of ---- of Couces	3268600	3 yrs
15	DST	Dr. Brindaban Ray, Dept. of Chemistry	Palladium Catalyzed --- Melated alkaloids	2000000	3 yrs
16	DBT	Prof. Alpna Seal, Dept. of Biochemistry and Biophysics	Bioinformation of BITS Net	563410.00	3 yrs
17	DBT	Dr. Utpal Basu, Dept. of Mol. Biology	Identification and ---- entry site	3830000	3 yrs
18	W.B. DST	Dr. Niladri Biswas, Dept. of Adult Education	Training Programme --- Low Cost Eco-Technology	500000	1yr
19	ICAR	Prof. Animesh Kumar Datta, Dept. of Botany	Identification and ---- in jute	470000	3yrs
20	ICMR	Dr. Tapati Chakraborti, Dept. of Biochemistry	Biochemical --- Stimulation	1302655	2yrs
21	CSIR	Dr. Sajal Chakraborti, Dept. of Biochemistry	Studies on Cell Membrane	2192000	3 yrs
22	CSIR	Dr. Kakali Bhadra,Dept. of Zoology	Therapec Bpeutial Biological Perspectives	2692000	3 yrs
23	CSIR	Dr. Manirul Islam, Dept. of Chemistry	Development of ... Reaction	2092000	3 yrs
24	UGC	Dr. Sanjib Mridha	SC/ST Coaching Class.....	230929.00	3 yrs
25	UGC	Dr. Goutam Paul, Dept. of Physiology	Effect of bisphonal.. Physiological Study	745300	3 yrs

Sl. No.	Funding Agency	Name of the Supervisor(s)/Deptt.	Title of Project	Amount Sanctioned	Tenure
26	UGC	Dr. Soma Mukherjee, Dept. of Env. Sc.	Structural and .... Application	881800	3 yrs
27	UGC	Head Dept. of Chemistry	Basic Scientific Research	4000000	3 yrs
28	UGC	Dept. of Mathematics	DRS-SAP	1704064	5 yrs
29	UGC	Prof. Parthadeb Ghosh, Dept. of Botany	Molecular Character... AFLP Analysisi	765800	3yrs
30	UGC	Dr. Tapati Chakraborti, Dept. of Biochemistry	Inlracellular..leishmanusis	945800	3yrs
31	UGC	Prof. Anilava Kaviraj, Dept. of Zoology	Recovery of in agneculture	963027	3yrs
32	UGC	Dept. of Bio-Chemistry	DRS-SAP-I	4000000	3yrs
33	UGC	Prof. P.K.Bandyopadhyay, Dept. of Zoology	Diagonastic of .. Fish Health	1115800	3yrs
34	UGC	Prof. C.K.Manna, Dept. of Zoology	An Approach to the people of West Bengal	1305800	3yrs
35	UGC	Dr. Abhay Sankar Sahu, Dept. of Geography	BSR-Start up Grant	600000	2yrs
36	UGC	Dr. Tanima Saha, Dept. of Bio-Technology	BSR-Start up Grant	600000	2yrs
37	UGC	Dr. Amalendu Bhunia, Dept. of Commerce	Association among .. Of Indian Sotock Exchange	279000	2yrs
38	UGC	Dr. Lakshmishri Lahiry, Dept. of Physiology	BSR-Start up Grant	600000	2yrs
39	UGC	Dr. Tapas Majumder, Dept. of Chemistry	BSR-Start up Grant	6,00,000	2yrs
40	UGC	Dr. Jishnu Naskar, Dept. of Biochemistry	BSR-Start up Grant	600000	2yrs
41	UGC	Dr. Bijay Shekar Dutta, Dept. of Botany	BSR-Start up Grant	600000	2yrs
42	UGC	Dr. Yatramohan Jana, Dept. of Physics	Synthesis...of Spin.. Magnetic Properties	952500	3yrs
43	UGC SAP DRS I	Department of Chemistry	UGC SAP DRS I program	49,05,974	5 yrs

### 3.3. Research Facilities

#### 3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?

University regularly improves and updates its infrastructure to facilitate research via available funds. University is also aware for the needs of researchers in emerging discipline. Following infrastructures are created: (1) A common instrument centre has been established under the auspices of DST PURSE which houses several modern instruments that cater to the need of research of various departments (ii) Central computing facility (iii) Animal house (iv) Green house.

The list of major equipment purchased (for a cost of 6 crores) from DST PURSE grant are as follows

1.	Microtops II Ozono Meter. <b>Solar Light</b>	13.	Vertical Laminar Flow. <b>ESCO Micro Pte. Ltd. Model- AVC-3D1 .</b>
2.	Gel Doc Chemilumi. <b>BIO-RAD Pacific Limited</b>	14.	UV-VIS Spectrophotometer. <b>Hitachi, (Japan), Model- U-2910</b>
3.	Ultra Centrifuge. <b>Techomp Macao, Model- CS120FNX.</b>	15.	Ultraprobe Sonicator. <b>Takashi, Japan. Model- U-250.</b>
4.	Gel Apparatus with Power Pack. <b>Geno Bioscience Pvt.Ltd.</b>	16.	High Speed Centrifuge. <b>Thermo Electron LED GmbH. Model- Biofuge Stratos.</b>
5.	Cryostat Microtome. <b>Medimeas</b>	17.	Spectrum Analyzer. <b>GW Instek, Model- GPS 810.</b>
6.	Fluorescence Microscope. <b>SPEEDFAIR CO. LTD.</b>	18.	Planetary Mono Ball Mill. <b>Insmart, Model- MBM07.</b>
7.	Real Time PCR . <b>Life Technologies Holdings Pte. Ltd.</b>	19.	Cold Centrifuge. <b>REMI, model- CPR-30 Plus.</b>
8.	Phase Contrast Microscope. <b>Carl Zeiss Microscope, Model- Primo Vert.</b>	20.	Microtome. <b>Medimeas, Model- MRM-AT.</b>
9.	Gas Chromatograph. <b>Thermo Fisher, Model- Trace GC1310.</b>	21.	CO2 Incubator. <b>ESCO Micro Pte. Ltd. Model- CCL-170B-8-UV.</b>
10.	UV-VIS Spectrophotometer. <b>Thermo Fisher, Model- Genesys UV-10S.</b>	22.	Vector Network Analyzer. <b>Rohde &amp; Schwarz</b>
11.	Trinocular Microscope. <b>Labomed, Model- LX300.</b>	23.	HRMS (Waters) <b>Carl Zeiss Microscope</b>
12.	Deep Freezer. <b>ESCO Micro Pte. Ltd. Model- UUS-363A-1-5D.</b>		

### 3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.

Yes. At the CIRM, there are 45 terminals are connected under LAN and the 1GBPS link internet service provided by the BSNL (Bharat Sanchar Nigam Limited) under NMEICT project. The teachers, scholars, students, officers and staffs of the University can access central computing facilities. The Centre remains open from 10:15 a.m. to 6 p.m. on all working days. The CIRM is also providing the Internet facility on round the clock basis to all users in the university including teaching, administrative staff and research scholars, students. The internet facility is being provided through NMEICT. Other details are available in the information about the center. Some of the departments and the entire administrative building is wi-fi enabled. Each and every teacher has a personal computer and halls of residences are given 24 x 7 free internet access.

### 3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?

Yes, the University had a University Science Instrumentation Centre (USIC) until 2010. Later, the center is converted into a department (Department of Engineering & Technological Studies) under the faculty of engineering, where undergraduate, post graduate and doctoral programs are being carried out. Other details are provided in the information about the said department.

### 3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?

Yes, the research scholar's hostels are provided with 24 x 7 internet facilities. Computers are provided to faculties.

**3.3.5 Does the university have a specialized research centre/ workstation on-campus and off-campus to address the special challenges of research programmes?**

No

**3.3.6 Does the university have centres of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

No

### **3.4 Research Publications and Awards**

**3.4.1. Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.**

Yes. Published by the department of Physiology. Details are provided by the department. The editorial board of the journal is as follows

Prof. Gautam Paul is the editor of the Journal of Environmental Physiology.

**3.4.2. Give details of publications by the faculty:**

**\* Number of papers published in peer reviewed journals (national / international)**

**\* Monographs**

**\* Chapters in Books**

**\* Books edited**

**\* Books with ISBN with details of publishers**

The summarized data of the publication of above types are presented below.

**Table.** Number of publications in peer reviewed journals, monographs, chapters in books, edited books, books with ISBN with details of publisher

Year	Peer reviewed journals (national / international)	Monographs/Chapters in books/Books edited/Books with ISBN / ISSN	Total
2011-2012	815	8	823
2012-2013	1010	30	1040
2013-2014	1048	15	1063
2014-2015	999	9	1008
Total	3872	62	3934

**\* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, EBSCO host, etc.)**

Scopus based analysis shows that total 1725 documents entered for the affiliation “University of Kalyani for the period 2011-2015. Year wise data are as follows.

Year	Documents
2011	297
2012	320
2013	357
2014	401
2015	350

## Citation Index – range / average, \* SNIP, SJR, Impact Factor – range / average, h-index

Department	Name of the faculty member	Total publication (SCOPUS)	Total Citation (Scopus)	h index (SCOPUS)
Molecular Biology & Biotechnology	Dr. Utpal Basu	9	49	5
	Dr. Tapas Kumar Bandyopadhyay	2	3	1
	Dr. Tanima Saha	3	11	1
Business Administration	Dr. Isita Lahiri	1		
	Dr. Manas Kumar Sanyal	8		
	Dr. Satyajit Dhar	5	5	2
Computer Science & Engineering	Dr. Anirban Mukhopadhyay	93	712	14
	Dr. Jyostna Kumar Mandal	134	132	6
	Dr. Kalyani Mali	7	64	3
	Dr. Utpal Biswas	32	42	4
	Dr. Priya Ranjan sinha Mahapatra	1		
	Mr. Debabrata Sarddar	14	12	2
	Mr. Malay Bhattacharyya	26	131	7
	Dr. Parthasarathi Mukhopadhyay	3	2	1
Engineering Technologies Studies	Dr. Mallika De	25	69	4
	Dr. Partha Pratim Sarkar	103	125	6
	Dr. Sushanta Biswa	35	62	5
	Dr. Sanjoy Das	9	26	2
	Dr. Debasree Chanda	8	8	2
	Dr. Nabin Ghoshal	24	51	4
Zoology	Dr. Dilip Mukherjee	56	492	13
	Dr. Anilava Kaviraj	54	528	12
	Dr. Prabir Bandyopadhyay	49	118	6
	Dr. Debjani Nath	13	61	6
	Dr. Asish Kumar Panigrahi	2	4	1
	Dr. Kakali Bhadra	27	662	13
	Dr. Chanchal Kumar Manna	17	27	4
	Dr. Anusur Rahaman khudabukshh	159	1789	23
Environmental Management	Dr. Susmita Lahiri	9	3	1

Department	Name of the faculty member	Total publication (SCOPUS)	Total Citation (Scopus)	h index (SCOPUS)
	Dr. Jayanta Kumar Biswas	5	1	1
	Dr. Keka Sarkar	12	65	4
		2	9	1
	Dr. Ekramul Islam	10	66	4
Economics	Dr. Madhusudan Datta	2	2	1
	Dr. Nitish Datta	2		
	Dr. Byasdeb Dasgupta	9	8	3
	Dr. Prasenjit Sarkhel	5	4	1
Mathematics	Dr. Manjusri Basu	26	168	8
	Dr. Bijay Baran Pal	49	351	9
	Dr. Indrajit Lahiri	37	179	6
	Dr. Sanjib Kumar Datta	58	12	1
	Dr. Samares Kumar Pal	27	184	9
	Dr. Dibyendu De	8	23	3
	Dr. Animesh Biswas	21	117	5
	Dr. Abhijit Banerjee	35	84	4
	Dr. Avijit Sarkar	13	28	3
	Dr. Pulak Sahoo	23	30	4
	Mr. Dibakar Ghosh	43	433	12
Physics	Dr. Chirantan Neogy	16	21	2
	Dr. Asit Baran Bhattacharya	51	160	7
	Dr. Amitabha Sinha	6	10	1
	Dr. Bijan Modak	28	160	8
	Dr. Arunava Chakraborti	63	637	13
	Dr. Sudipta Pal	79	867	17
	Dr. Subhratanu Bhattacharya	11	29	4
Botany	Dr. Animesh Datta	48	131	7
	Dr. Chandan Sengupta	14	77	5
	Dr. Malay Kumar Adak	6	27	2
	Dr. Neera Sen Sarkar	4	4	1
	Dr. Padma Chatterjee	11	22	2
	Dr. Parthadeb Ghosh	24	94	6
	Dr. Sankar Narayan Sinha	7	13	2
	Dr. Sobhan Kr. Mukherjee	6	30	3
	Dr. Sudha Gupta	17	55	4
Bio Chemistry & Bio Physics	Dr. Tapati Chakraborti	88	2083	18
	Dr. Utpal Ghosh	48	394	12



Department	Name of the faculty member	Total publication (SCOPUS)	Total Citation (Scopus)	h index (SCOPUS)
	Dr. Sajal Chakraborti	110	2530	21
	Dr. Angshuman Bagchi	57	279	9
	Dr. Alpana Seal	8	35	2
	Dr. Rakhi Dasgupta	26	72	5
	Dr. Rita Ghosh	28	359	9
	Dr. Tapan Kr. Das	119	835	14
	Dr. Tarak Das Basu	25	162	8
Physiology	Dr. Goutam Paul	101	1232	15
	Dr. Subhashish Sahu	25	151	4
Statistics	Dr. Chandranath Pal	5	9	3
	Dr. Rajendranath Panda	3	2	1
	Dr. Sadhan Samar Maiti	3	48	2
	Dr. Premadhis Das	15	29	4
	Dr. Nimai Kumar Chandra	7	75	2
	Dr. Chandranath Pal	5	9	3
Chemistry	Dr. Ashok Prasun Chattopadhyay	35	282	11
	Dr. Tapas Majumder	28	131	7
	Dr. Swati De (Das)	38	1438	17
	Dr. Swarup Kumar Chattopadhyay	37	470	14
	Dr. Surajit Chattopadhyay	58	748	16
	Dr. Subhas Ch. Debnath	47	375	10
	Dr. Sk. Manirul Islam	62	553	13
	Dr. Shital Kumar Chattopadhyay	79	1040	18
	Dr. Nitis Chandra Saha	17	158	6
	Dr. Nilashis Nandi	65	1905	18
	Dr. Manaranjan Jana	40	676	15
	Dr. Mitali Sarkar	48	852	15
	Dr. Monindra Nath Bera	34	233	12
	Dr. Kumaresh Ghosh	108	1579	24
	Dr. Brindaban Roy	59	625	13
	Dr. Bidyut Guha Niyogi	4	10	1
	Dr. Asit Ranjan Sarkar	38	465	12
Enviroemental Science	Dr. Rina Bhattayacharjee	29	66	5
	Dr. Subhas Chandra Santra	69	552	13
	Dr. Soma Mukherjee	22	191	9



**3.4.3 Give details of:**

- \* **Faculty serving on the editorial boards of national and international journals .**
- \* **Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies .**

Prof. Gautam Paul is the editor of the Journal of Environmental Physiology.

Prof. Sajal Chakraborti is the Guest Editor of the Special issue (December-2014) entitled: *Cellular Signalling* of the Indian J Biochemistry and Biophysics.

Prof. Shital K. Chattopadhyay is the member of the editorial board of Signpost Journal of Organic Chemistry.

Prof. J. K. Mondal is the guest editor of Journal of Microsystem Technologies (Springer), SCI; volume editor of Springer, AISC series; volume editor of smart innovative systems and technology, Springer

Prof. S.C. Santra is the editorial board member of World Journal of Biotechnology

Prof. C. Sengupta is the Editor in chief of Frontiers in Environmental Microbiology

Prof. Sankar Narayan Sinha is the Editor in chief of Journal of Applied and Environmental Microbiology

Several faculty members, such as Prof. Sobhan Mukherjee, Prof. B.B.Pal, Prof. Anirban Mukhopadhyay, Prof. Tapas Pal Majumdar are volume editors of reputed publications which are provided in the publication list of the respective departments.

**3.4.4. Provide details of:**

- \* **Research awards received by the faculty and students.**
- \* **National and international recognition received by the faculty from reputed professional bodies and agencies.**

Year wise data are provided as follows.

**2011-2012****(a) Achievements of Students/Scholars**

- i. M.Tech. & MCA final year students presented papers in IEEE International Conference. 37
- ii. A final year student, Sri Hirak Dasgupta was awarded a post graduate scholarship, ERASMUS\_MUNDAS scholarship of URINDIA program of amount 1000 Euro/month.
- iii. All appeared candidates being passed out in Final Examination, the First Class First is awarded with Sri Nirendra Nath Sen Memorial Prize during Convocation Ceremony.
- iv. Dr. Arpan K. Maiti has been awarded US-India Fulbright Fellowship for Post Doctoral research work in USA.
- v. Shri Partha Pratim Nath has been Awarded DST-inspire fellowship for pursuing Ph.D. work in the Department of Physiology, University of Kalyani, under the supervision of Prof. Goutam Paul.
- vi. One student was felicitated by DOSPI, WB for standing First in M. Sc.

**(b) Awards/distinctions Received by the Faculty**

- i. Prof. Surajit Chattopadhyay was elected Fellow of the West Bengal Academy of Science and Technology (FWAS).
- ii. IABMS ( Indian Association of Biomedical Scientist) has conferred an honorary Fellowship title (FABMS) to Dr. Subhashis Sahu , Assistant Professor Department of Physiology on 11.11.2011 for his contribution in Biomedical Sciences.
- iii. Prof. Kumaresh Ghosh, received D. K. Banerjee memorial lecture award from I.I.Sc. in 2011.

**2012-2013****(a) Achievements of Students/Scholars**

- i. Monalisa Mandal, a URS of the department working under the guidance of Dr. Anirban Mukhopadhyay, received the following awards: Special Paper Award in International Conference PDGC-2012, held in Solan, India in December 2012; second Best Paper Award in the International Conference BIC-TA-2013 held at Gwalior, India in December 2012.
- ii. Sri Hirak Dasgupta (EIE) was awarded a post graduate scholarship, ERASMUS\_MUNDAS scholarship of URINDIA program of amount 1000 Euro/month.
- iii. Our university won the One-Act Play Competition at the East Zone Inter-University Youth Festival in December 2012. We also won the First Prize in the One-Act Play category at the National Inter-University Youth Festival, held at our university, in February 2013. In this One-Act Play, a few students of our Department took part, namely Debtanu Guha, S. Chakraborty, Monikinkini Basu and Animesh Biswas.
- iv. Gourab Biswas and Piyali Burman received Rajib Gandhi National Fellowship, UGC.
- v. Students of the department participated in the East Zone Inter-University Youth Festival, All-India Inter University Youth Festival and won prizes.
- vi. All appeared candidates being passed out in Final Examination, the First Class First is awarded with Sri Nirendra Nath Sen Memorial Prize during Convocation Ceremony.
- vii. Three research Scholars of this department have been awarded travel grant (GBP 1000 each) by the International Union of Physiological Sciences (IUPS) for presentation of paper in IUPS Congress 2013 scheduled to be held at Birmingham, UK during July 21 -26, 2013. Name of the Scholars are i) Shri Kaushik Sarkar ii) Smt Panchali Tarafder iii) Smt Mouri Ghosh.
- viii. Shri Subhabata Moitra, Research Scholar of this department had awarded travel grant by European Respiratory Society for presentation of research paper in 22<sup>nd</sup> Annual congress in Vienna, Austria which was held from 1<sup>st</sup> to 5<sup>th</sup> September, 2012.
- ix. Smt. Mukti Mondal was awarded DST-INSPIRE fellowship in 2012-13.
- x. Shri Sontu Dulov has been selected for Rajib Gandhi fellowship in 2012-13.
- xi. Suravi Majumder : Best paper award (medal + cash prize) in International seminar at Visva-Bharati.
- xii. Puja Pal: Gold Medal in International Seminar at Nagpur and Visva Bharati.
- xiii. Asmita Samaddar: Award and cash prize in International seminar at Sweden.
- xiv. Avijit Pal : Award and cash prize in International seminar at Sweden.
- xv. Sremanti Das: Award and cash prize in International seminar at Sweden.
- xvi. Jayeeta Das: Award and cash prize in International seminar at Sweden.

**(b) Awards/distinctions received by the Faculty**

- i. Prof. J. K. Mandal received Bharat Jyoti Award, Best Citizens of India.
- ii. Prof. J. K. Mandal is nominated as fellow of IETE.
- iii. Dr. A.K. Panigrahi was awarded V.R.P. Sinha Medal in 2012 and G K Kulkarni gold medal in 2013 from Zoological Society, Bodh Gaya.

**2013-2014****(a) Achievements of Students/Scholars**

- i. Dipanjan Guha, Research Scholar of Biochemistry & Biophysics Department was rewarded for best presentation in International Conference organized by SFRR, India.

- ii. Smt. Ruchira Chakroborti, Debapriya Dey and Anindita Mitra Research Scholars of Biochemistry & Biophysics Department were awarded DST-INSPIRE fellowships.
- iii. Ms. Madhumita Sengupta, a URS of the Department of Computer Science & Engineering working under the guidance of Prof. J. K. Mandal received the award of most Active Participant Woman Member of CSI 2012-13.
- iv. Three students of the department Department of Computer Science & Engineering won the best three ranks in the programming competition ChoCo 2013 held on April 08, 2013.
- v. One Ph.D. awardee of Department of Microbiology received Fulbright-Nehru Scholarship.
- vi. Three Research Scholars of the Department of Physiology were awarded travel grant (GBP 1000 each) by the International Union of Physiological Sciences (IUPS) for presentation of paper in IUPS Congress 2013 at Birmingham, UK during July 21 -26, 2013. Name of the Scholars i) Shri Kaushik Sarkar, ii) Smt Panchali Tarafder, iii) Smt Mouri Ghosh.
- vii. Smt. Mukti Mondal was awarded DST-INSPIRE fellowship in 2012-13.
- viii. Shri Sontu Dulov was selected for Rajib Gandhi fellowship in 2012-13.
- ix. Smt.Suravi Majumder of the Department of Zoology received the Best paper award (medal + cash prize) in International seminar at Visva-Bharati .
- x. Smt.Puja Pal won the Gold Medal in International Seminar at Nagpur and Visva Bharati.
- xi. Smt.Asmita Samaddar received Award and cash prize in International Seminar at Sweden.
- xii. Sri Avijit Pal received an Award and cash prize in International Seminar at Sweden.
- xiii. Smt.Sremanti Das received an Award and cash prize in International Seminar at Sweden.
- xiv. Smt Jayeeta Das received an Award and cash prize in International seminar at Sweden.
- xv. Ms.Jamini Banik,Research Scholar of the Department of Botany awarded DST-Rajat Jayanti Vigyan Sancharak Fellowship under the Mentorship of Dr.Neera Sen Sarkar.

(b) Awards /distinctions Received by the Faculty

- i. Mr. Malay Bhattacharyya, Assistant Professor, Department of Computer Science & Engineering has received Indian Science Congress Association (ISCA) Young Scientist Award 2013-14 in Information and Communication Science & Technology (including Computer Science) section.
- ii. Dr. Anirban Mukhopadhyay, Associate Professor, Department of Computer Science & Engineering has been selected for Institution of Engineers, India (IEI) Young Engineers Award 2013-14 in Computer Engineering Discipline.
- iii. Dr. Anirban Mukhopadhyay received DAAD scholarship for research stay of 2 months at University of Goettingen, Germany during May-June 2013.

**2014-2015**

(a) Achievements of Students/Scholars

- i. Doctoral/Post doctoral fellows: Swarup Roy awarded prize for best oral presentation in 1st National conference on Advancing Biology through Computation and Technology (ABTC'14) held on 22nd August, 2014 at West Bengal State University & Kingstone Educational Institute, Barasat, West Bengal, India.
- ii. Arnab Bhattacharya MCA 2nd year student of the dept. of Computer Science & Engineering, University of Kalyani has been placed 3rd in 35th Eastern Zone youth festival, Ranchi group song(western).
- iii. Jayita Pramanik, Faruk Mandal, and Ujjal Debnath, Students, Department of Education, Gold Medal was awarded by University.

- iv. Several students, Department of Environmental Management are doing research in different renowned institutes and universities like IITs, ISM, Jadavpur University, etc. Some have joined in environmental consultancy organizations and schools.
- v. Students of the Folklore department participated in the East Zone Inter-University Youth Festival, All-India Inter University Youth Festival and won prizes.
- vi. All appeared candidates of Geography department being passed out in Final Examination, the First Class First is awarded with Sri Nirendra Nath Sen Memorial Prize during Convocation Ceremony of the University.
- vii. Second prize in Poster (at PG LEVEL competition) was won by Bappa Mondal, M.A./M.Sc. Semester-I student of the Department of Geography, K.U. in West Bengal State Student Youth Science Fair 2014 (held on 10th to 12th September, 2014 at Netaji Indoor Stadium, Kolkata).
- viii. Eight M.Sc. students of Microbiology department participated at Inter-varsity Students' Festival at Ranchi and received awards. Two Ph.D. students were invited to participate for delivering their research activities at the Leading Graduate Students' programme of Nagoya University, Japan.
- ix. Mr. Shib Sankar Roy Department of Physiology, MSc 3<sup>rd</sup> Sem Students stood first in State Level Science Project Competition by West Bengal State Council of Science and Technology, Govt of West Bengal in West Bengal State youth Science Fair, 2014.
- x. Ashma Khatun has been awarded DST-INSPIRE fellowship in 2014 for pursuing Ph.D degree.
- xi. Smt Sanghamitra Paul has been awarded DST-INSPIRE fellowship in 2015 for pursuing Ph.D degree.
- xii. Shri Asit Adikari has been selected for Rajib Gandhi National fellowship in 2013 - 14 for pursuing Ph.D. degree.
- xiii. Department of Visual Arts, students have been awarded in the events conducted by the Association of Indian Universities programmes in National Events. A few students have also been awarded in important curated exhibitions organized by different notable art galleries and organizations across the region.
- xiv. The following students of Chemistry received INSPIRE Fellowship from DST, Govt. of India: Sutapa Dutta, Krishna Gopal Ghosh, Md. Emdadul Hoque, Soumya Kanti Dey, Rameez Raja, Sharikul Islam, Muttakin Sarkar.
- xv. University of Kalyani has been placed 3rd in 35th Eastern Zone youth festival, Ranchi group song(western).
- xvi. Gold Medal was awarded by University to the following students-Jayita Pramanik, Faruk Mandal, and Ujjal Debnath of education.
- xvii. PG student of English, Dibyendu Bhattacharya's paper presentations at seminars organized by the University of Burdwan ('The fidelity of Vishal bharadwaj in the Making of the Cultural pratic of Shakespeare in modern India'), Centre for Cultural Studies, Kalyani University ('English-Vinglish and Queen: The Filmic') and by Centre for Romantic Studies ("The sensual and the proud": Coleridge's "Dijection: An Ode) was much appreciated.
- xviii. Molecular Biology & Biotechnology: The students of the Department qualify NET (DBT, CSIR, ICMR), GATE and SLET examination. Moreover our passes out students have proved their efficiency in the field of research through their publications in the high impact factor journals.
- xix. Physiology: Dr. Kaushik Sarkar, Dr. Panchali Tarafder and Mr. Partha Pratim Nath have attended and presented research papers in 1<sup>st</sup> Annual International Conference on Advanced Research: Physiology (ARP2014) held in Singapore from 21<sup>st</sup> to 22 July, 2014.

- xx. Research student, Mrs. Bandana Bhattacharjee has been awarded S.R. Yadav Best Poster Presentation in 24<sup>th</sup> Annual Conference of Indian Association for Angiosperm Taxonomy (IAAT) & International Conference on “Trends in Plant Systematics” on 31<sup>st</sup> October to 2<sup>nd</sup> November, 2014. Organized by Department of Plant Science, Bharathidasan University, Tiruchirappalli – 620 024, Tamil Nadu).

(b) Awards /distinctions Received by the Faculty

- i. Prof. Shital K. Chattopadhyay of the Chemistry department was elected Members of the American Chemical Society for a period of three years during 2014-15.
- ii. Prof. Nilashis Nandi of the Chemistry department was elected Members of the American Chemical Society for a period of three years during 2014-15.
- iii. Dr. Anirban Mukhopadhyay, Computer Science & Engineering, has received Indian National Academy of Engineering (INAE) Young Engineer Award 2014.
- iv. Prof. J. K. Mandal has received Chapter Patron Award 2014 from Computer Society of India (CSI).
- v. Rajiv Gandhi Excellence Award, 2014 to Dr. Md. Ayub Mallick, Political Science.
- vi. Dr. Angshuman Bagchi, Faculty Member of the University of Kalyani has been under NIH fellowship to perform postdoctoral research work in the lab of Prof. Sean D. Mooney, Buck Institute for Age Research, CA, USA.

**3.4.5. Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access?**

Per faculty on an average 1 student is successfully awarded University wide. The University participates in the *Shodhganga* by depositing the Ph.D. theses with INFLIBNET for electronic dissemination through open access. Ph.D. students submit soft copy of the complete thesis as a part of the submission. This data is provided by the central library as well as from Library and information sciences. Agreement between UGC-Inflibnet Centre, Gandhinagar and University of Kalyani regarding uploading of Ph.D / M.Phil Thesis / Dissertation to the Online Repository under the aegis of the SHODHGANGA and SHODHGANGOTRI Projects is mentioned below.

**3.4.6. What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

University is strictly against malpractices and plagiarism in research. Faculty members are aware of plagiarism checking processes and monitor the same. Often the faculties individually purchased licensed software for checking plagiarism. The University has taken action against a very few reported cases. An academic excellence committee headed by Prof. A.K. Dutta, Dept. of Botany monitors the related issues.

**3.4.7. Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?**

Yes. These projects are referred in the departmental profiles.

**3.4.8. Has the university instituted any research awards? If yes, list the awards.**

There are as such no provisions for giving research awards. However, the IQAC monitors the research performances on regular basis.

**3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?**

There is no provision for giving any financial incentive for such kind of activities. However, a token appreciation is given to the achiever.



### 3.5 Consultancy

#### 3.5.1 What is the official policy of the university for structured consultancy? List a few important consultancies undertaken by the university during the last four years.

Approximately, 90% of the consultancy fees go to the University and 10% to the concerned faculty. The structured consultancy is monitored by the respective faculty and data are available in the departmental profile, for example Department of Environmental sciences.

#### 3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?

The University constructed the Industry Institute Partnership Cell under the chairmanship of Prof. J. K. Mandal from the aid of 10 lakhs from AICTE. Relevant infrastructure has been created and various activities are performed such as lectures from experts from industry, technical training session, placement orientation training on regular basis.

#### 3.5.3 What is the mode of publicizing the expertise of the university for consultancy services? Which are the departments from whom consultancy has been sought?

University website, newsletters, annual reports and University published brochures.

#### 3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?

Faculties under various departments are active in consultancy service. This is decentralized and data are provided in the departmental profile, for example Department of Environmental sciences and Department of Chemistry.

#### 3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.

Broad area is Science such as Environmental sciences. Data are available from the departmental information, for example, from Department of Environmental sciences.

### 3.6. Extension Activities and Institutional Social Responsibility (ISR)

#### 3.6.1. How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.

Student outreach program under the auspices of DST inspire program have been carried out. Department of Adult, Continuing Education and Extension conducts a number of outreach programs which are provided in detail in the corresponding departmental profile.

#### 3.6.2. How does the university promote university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development?

Yes. The University encourages university-neighbourhood network and student engagement, contributing to the holistic development of students and sustained community development. Department of Adult, Continuing Education and Extension conducts a number of outreach programs which are provided in detail in the corresponding departmental profile.

#### 3.6.3. How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?

University actively promotes NSS activities. This is discussed under the information for NSS. The University does not have its own NCC program. However, a NCC camp for West Bengal and Sikkim cadres is permanently housed inside the University campus.

**3.6.4. Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

Social science related departments such department of Adult, continuing education & extension, Sociology, Rural development Studies, Folklore are involved in research in social justice and empowerment of the underprivileged and the vulnerable sections of society. Also the center for Women studies cater to these needs.

**3.6.5. Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

Center for Bengali diaspora have similar kind of activities which are enlisted in the respective profile of the center.

**3.6.6. Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.**

The participation of the students in extension activities leads to practical experience which effectively supplements their theoretical knowledge and inculcate awareness of civic responsibility.

**3.6.7. How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.**

These activities are discussed under the information for NSS and department of adult and continuing education & extension. Some notable examples are: (1) Tree plantation programme throughout theyear (2) Blood donation camps organized by the students union, research scholars association, officer's association, staff association, NSS throughout the year (3) organization of events and celebrations such as National Youth day, Republic Day, Martyr Day, International Women Day, World Health Day, World Environment Day, Sadhbavana Day, International Literacy Day, NSS Day, Communal Harmony Day, National Integration Day, World AIDS Day, World Human Right Day, National Youth Week, International Literacy Week etc. (4) The University medical center has conducted free cardiac checkup and general health checkup (5) Organization of SAKSHAM program (6) The University community has donated one day salary for the aid of victims of Ayla.

**3.6.8. Give details of awards received by the institution for extension activities and/contributions to social/community development during the last four years.**

These awards/ recognitions are discussed under the information for NSS and department of adult and continuing education & extension.

### **3.7. Collaboration**

**3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?**

Yes. The University has participated in several collaborations, either by the individual faculty members, collaboratively or via MOU. These collaborations are listed under various departments. These collaborations significantly enriched the academic activities of the University directly or indirectly to benefit financially and academically.

**3.7.2 Mention specific examples of how these linkages promote**

**(i) Curriculum development (ii) Internship (iii) On-the-job training (iv) Faculty exchange and development (v) Research (vi) Publication (vii) Consultancy (viii) Extension (ix) Student placement (x) Any other (please specify)**



The visit of the students to various organizations and Institutions as a part of curriculum, internship and project work provide access to advanced learning.

Faculty exchange is an important aspect and Participation in the Erasmus+ Program 2015-2016 is notable.

The cooperation between University of Lodz, Poland and University of Kalyani, India also includes the Inter-institutional agreement under the umbrella of the KA107 Erasmus+ Mobility Program between EU countries and Partner non-EU countries for 2015-2016.

This selection has entitled us to take part in PhD student exchange with University of Lodz, Poland for 5 months during the summer semester February 2016 to June 2016. The selected Ph. D students will spend a semester at University of Lodz to carry out advanced research in the chosen fields of study. This participation is expected to enhance their knowledge and experience in the specific field of research. The main idea is to augment their existing experience in the specific research domain.

Two (2) PhD students of our University have been selected for this exchange (details given below). The students will be provided scholarship @ 750 Euro for 5 months and air travel grants. They will also be reimbursed Visa fees to the extent of 60 Euro.

Name of the student selected	K.U. department where the student is pursuing Ph.D work	Faculty at University of Lodz where the student will pursue research work for 5 months	Area of research work planned at University of Lodz	Name of the Host Supervisor at University of Lodz	Name of Ph.D Supervisor of the student at K.U.
Manjushree Mandal	Department of Botany	Faculty of Biology and Environmental Protection	Diatom Autecology	Dr. Joanna Zelazna-Wieczorek	Dr. Neera Sen Sarkar
Soumen Atta	Department of Computer Science and Engineering	Faculty of Mathematics and Computer Science	Discrete and Combinatorial Optimization	Professor Stanislaw Goldstein	Dr. Priya Ranjan Sinha Mahapatra

**3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?**

Yes. During 2014-2015, University of Kalyani has signed the following MoU's with various institutions:

(i) July 2014

MoU for Partnership and Co-operation between Noble Institution for Environmental Peace (NIEP), an International Nonprofit Incorporated Institution for Global Benefit based in Toronto, Canada and University of Kalyani, India.

(ii) November 2014

MoU on Founding China-India Cultural Exchange Center between Yunnan Minzu University, China and University of Kalyani, India.

(iii) March 2015

Agreement between UGC-Inflibnet Centre, Gandhinagar and University of Kalyani regarding uploading of Ph.D / M.Phil Thesis / Dissertation to the Online Repository under the aegis of the SHODHGANGA and SHODHGANGOTRI Projects.

(iv) May 2015

Agreement for Cultural, Educational and Research Cooperation between the University of Kansas

Medical Center, Kansas City, U.S.A. and University of Kalyani, India.

(v) August 2015

Agreement for Academic and Research Cooperation between University of Lodz, Poland and University of Kalyani, India.

**3.7.4. Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?**

This is in process.





## CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 Physical Facilities

4.1.1 How does the university plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?

University has functional Building Committee which plans and guides about construction of physical infrastructure and ensures its optimal utilization through space allocation committee.

4.1.2 Does the university have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.

Yes. Recent initiatives are construction of Smart Classroom in all departments. Six Smart classrooms already functional and tender formalities are initiated for another twenty classrooms. During the last four years a physical infrastructure of 1,41,830 sqft has been created for various benefits of our stake holders.

4.1.3 How does the university create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?

University has a fixed budget for construction & renovation of laboratories, computing facilities and allied services. Furthermore project overheads are used to develop these facilities. UGC, DST-FIST funds are used for developing the facilities such as Central Instruments Laboratory, Central Computational Laboratories (e-Technologies)

4.1.4 Has the university provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?

University has provided individual office room to all faculties in general and separate common rooms for boys and girls in most of the departments.

4.1.5 How does the university ensure that the infrastructure facilities are disabled-friendly?

To make the infrastructure facilities disabled friendly, ramp and lifts are being provided in recently constructed buildings. A lift and ramp has been installed in the administrative building.

4.1.6 How does the university cater to the requirements of residential students? Give details of

- ★ Capacity of the hostels and occupancy (to be given separately for men and women)
- ★ Recreational facilities in hostel/s like gymnasium, yoga centre, etc.
- ★ Broadband connectivity / wi-fi facility in hostels.

Name of the Hostel	Total Number of Rooms	Total Intake Capacity	Per Room Occupation
Dwijendralal Bhawan (PG-I) for Men	64	85	2 Bed/Room 1 Bed/Room
Vivekananda Bhawan (PG-II) for Men	64	85	2 Bed/Room 1 Bed/Room
Meghnad Saha Bhawan (PG-III)	64	85	2 Bed/Room 1 Bed/Room
Jagadish Ch. Bhawan (Banyan) for Men	120	140	2 Bed/Room 1 Bed/Room
Radhakrishnan Bhawan for Men	34	100	3 Bed/Room
Satyendra Nath Bhawan for Men	60	65	1 Bed/Room
Matangini Bhawan (LH-I) for Women	64	134	2 Bed/Room 3 Bed/Room
Nivedita Bhawan (LH-II) for Women	72	152	2 Bed/Room 4 Bed/Room
Lilabati Bhawan (RS) for Women	40	35	1 Bed/Room

• **Number of students provided Hostel Accommodation by the University**

Year	2011	2012	2013	2014	2015
Male	450	458	462	459	468
Female	300	306	310	295	339
<b>Total</b>	<b>750</b>	<b>764</b>	<b>772</b>	<b>754</b>	<b>807</b>

• **Facilities available in University Hostels:**

Name of the Hostel	Library/ Reading Room	Recreation and Sports	Wash Room	Misc. Facilities
Dwijendralal Bhawan (PG-I)	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	09	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Vivekananda Bhawan (PG-II)	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	09	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Meghnad Saha Bhawan (PG-III)	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	09	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Jagadish Ch. Bhawan (Banyan)	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	18	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Radhakrishnan Bhawan (BT Mens')	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	10	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Satyendra Nath Bhawan (RS Mens')	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	10	Aquaguard, Internet facilities each room for Boarders, Hotline/ Generator. 24X7 Internet Conectivity
Matangini Bhawan (LH-I)	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	15	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Nivedita Bhawan (LH-II)	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	19	Aquaguard, Hotline/ Generator. 24X7 Internet Conectivity
Lilabati Bhawan (RS Womens')	Library with reading room facilities	Table Tennis, Carrom, Badminton, Chess etc.	8	Aquaguard, , Hotline/ Generator. 24X7 Internet Conectivity

• **Recreational facilities in hostel/s like gymnasium, yoga centre etc:-**

The hostels have good facilities for promotion of sports. University has a gymnasium and yoga centre which are well-built and fairly managed central facilities, under the supervision of the Department of Physical Education. Students, in general including hostel boarders can enjoy multi-gym facilities under the guidance of the teachers and coaches belonging to the above mentioned department. Besides almost all the halls of residence have indoor and outdoor sports facilities, television, newspaper, magazines and library facilities.

### • **Wi-Fi facility in hostels :-**

The University has also provided Wi-Fi facilities to the student boarders of all Halls/Hostels of the University. Through these facilities, the inmates of all Halls/Hostels are able to access new happenings of the world as well as their course curriculum. Efforts are on to provide better connectivity to the e-world for residential students of this university.

Besides, 1 GBPS internet connection has been provided in the research scholar hostels (Boys/Girls) in order to access the e-journal, facilities (24X7).

4.1.7 Does the university offer medical facilities for its students and teaching and non-teaching staff living on campus?

There is a well equipped Health Centre in the university campus. University provides medical facilities for teaching, non-teaching staff and students in the Health Centre and has 24 Hrs. ambulance service.

4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?

Special Facilities like gymnasium, yoga centre, amphitheatre is available for students. Apart from that Swimming Pool and Students' Centre are under construction.

## **4.2 Library as a Learning Resource**

4.2.1 Does the library have an Advisory Committee? Specify the composition of the committee. What significant initiatives have been taken by the committee to render the library student/user friendly?

- The University Central Library has a 'Library Committee' as a statutory body and act as an Advisory Committee.
- The composition of the committee is as follows:

The Hon'ble Vice-Chancellor as Chairman of the committee, Librarian as the Secretary and Convenor of the committee, Four Deans of the Faculty Councils for Post-Graduate Studies, Five University teachers nominated by the Hon'ble Vice-Chancellor, One nominee of the University Students' Union, One teacher nominee of each Faculty Council for Post Graduate Studies, One Assistant Librarian of the Central Library, One full time Research Scholar nominated by the Hon'ble Vice-Chancellor, One person from Information Science, nominated by the Executive Council, One Professional Staff of the Library, The Finance Officer of the University.

- The Library Committee conducts their meetings at regular intervals to discuss on the needs of the users, present status of the library, takes decision to purchase and subscription of library resources discuss about the development improvement of the library system and services and assure involvement of appropriate authority for necessary measures.
- The Library Committee constitutes several sub committees like Book Purchase committee, Journal Sub-Committee, e-recourse committee thus ensuring the purchase and use of current titles, print and e-journals and other recourses and databases.
- Some significant initiatives implemented on the advice of the library committee are:

Extension of library building, Improved library budget, Emphasis on subscription of e-resources, Opening of Open Access Stack Room for the users, Installation of facilities for disable person, Extension of library service hours, Installation of bar-code system, Installation of seminar hall.

4.2.2 Provide details of the following:

- Total area of the library: 2136.7699 Sq. Mts.
- Total seating capacity : 200
- Working hours: 9 am- 8 pm (Monday- Friday during examination times) 10:15 am – 5:15 pm (Saturday)

- Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)

Floors	Different Sections
<b>Ground floor</b>	Includes different sections like property counter, registration section, open stack, circulation section, main stack (closed), processing section and room of Assistant Librarian
<b>First floor</b>	Includes periodical section & thesis section, newspaper section, bound journal section, stack room (closed), room of the Librarian, server room, office of the Central Library, Information Hub (a significant numbers of computers for access and use of library e-resources, online resources and internet surfing along with a printer and scanner) and reprographic section.
<b>Second floor</b>	Includes room of the Librarian, reference section, reading room, seminar hall (AC) and store room.

- Clear and prominent display of floor plan, adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection

Floor plan is displayed at the entrance of the Central Library, Fire extinguisher, alarm etc. are placed in different location, Adequate signboards are available in each floor, A book trolley is used for placing the books at proper place, Power cut problem is solved by setting up of a mini generator in the reading room and the University took initiative for providing Hot-line connection for the entire library, CCTV Surveillance system is used in different important areas of the library, Carrel for individual reading is available, Sofa set is available for relaxed reading, Library has taken initiative for making ramp, arrangement of wheelchairs etc. for differently-able users as they can get access different section of the library.

#### 4.2.3 Give details of the library holdings: (as on 29.12.15)

Print Resources		Nos.	Non-Print Resources	Nos.
Books		169576	E-Journals Database	6000
Rare Books		4000		
Manuscripts (Rabindranath Tagore's letter to Parul Devi)		51		
Theses		2539	Bibliographic Database	7
Back Volume Bound Journals		6947		
Journals	Indian	111	CD\DVD	140
	Foreign	25		
Magazines		25		
News Papers		7		

Question paper is also available from the library.

#### 4.2.4 What tools does the library deploy to provide access to the collection?

OPAC –Yes, the library provides OPAC facility using SOUL Software, Electronic Resource Management package for e-journals, Federated searching tools to search articles in multiple databases, Library Website –All the related information regarding Central Library is incorporated in the University webpage ([www.klyuniv.ac.in](http://www.klyuniv.ac.in)), In-house/remote access to e-publications – In-house as well as remote access.

#### 4.2.5 To what extent is ICT deployed in the library? Give details with regard to

- Library automation – Library automation programme was started in the year 1995 using CDS software package developed by UNESCO and since the year 2005 library automation software had been changed and started using SOUL software package developed by INFLIBNET centre. All the



in-house technical work has been done through the present software.

- Total number of computers for general access – 20 desktop computers with internet connectivity
- Total numbers of printers for general access - 8 Printers
- Internet band width speed 10 mbps (INFLIBNET) and - 1 GBPS NKN Internet band width is available in the library.
- Institutional Repository –The Central Library took initiative to maintain repository of all the theses through Shodhganga Project and work has already been started [MOU has been signed between University of Kalyani & INFLIBNET, Ahmedabad regarding this project on 24<sup>th</sup> March 2015]
- Content Management System for e-learning - Central Library has set up an archive for digital preservation of e-resources using D-Space software and plans to archive all the publication produced by the faculty members of the Kalyani University.
- Participation in resource sharing networks/consortia (like INFLIBNET)

UGC INFONET Digital Library Consortium, Gandhinagar, Information and Library Network (INFLIBNET) Centre, Gandhinagar, Developing Library Network (DELNET), New Delhi

#### 4.2.6 Provide details (per month) with regard to

- Average number of walk-ins – 200/Day
- Average number of books issued/returned- 380-400/Day
- Ratio of library books to students enrolled – 42:1
- Average number of books added during the last four year

Year (January- December)	Number of Books Added
2012	9098
2013	3200
2014	3940
2015	2641

- Number of IT (Information Technology) literacy trainings organized INFLIBNET Regional Training Programme on Library Automation from 2<sup>nd</sup> - 6<sup>th</sup> December 2013, organized by the Central Library, University of Kalyani, in collaboration with INFLIBNET Centre, Gandhinagar.
- One day workshop on 'User Awareness Programme on Access to E-resources under UGC INFONET Digital Library Consortium' organized by the Central Library on 28<sup>th</sup> September, 2015.
- Scopus training programme
- Reaxys training programme

#### 4.2.7 Give details of specialized services provided by the library with regard to

- Manuscripts- access to 51 letters written by Rabindranath Tagore to Parul Devi.
- Reference- Reference Section is a section containing reference documents, dictionaries, encyclopedias, directories, yearbooks, hand books etc.
- Service Provided

Library opened from 9am to 8pm, Wi-Fi facility in the library, Open access stack room with study table and chair, Online Public Access Catalogue (OPAC), Access of e-resources, Automated circulation of books, Daily News papers service, Reference service, CAS/SDI service, Reading of rare books, Reading of current journal and magazines on different subjects, Reading of theses, Open access reading room with 50 seating capacity, Carrier guidance section, Institutional membership with the other renowned libraries, associations, consortium & library network, Auditorium with 150 seating capacity

for academic discussion, exhibition, seminars and other important activities, Reading room facility for the external users, Inter library loan service, Reprographic service, Property counter, Filtered drinking water, Cycle stand.

- Reprography/Scanning- Service available on payment basis
- Inter Library Loan Service -University library has the membership of the following institutes from where our users can get access the resources

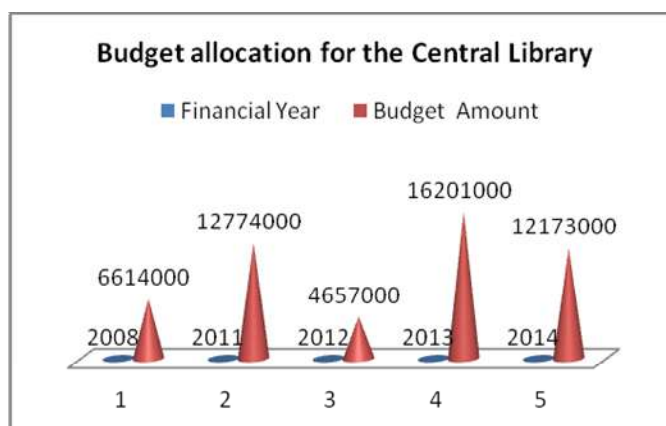
British Council Library, Kolkata, American Library, Kolkata, Indian Association of Special Libraries and Information Centres, Kolkata, Indian Library Association, New Delhi, Bengal Library Association, Kolkata, Developing Library Network (DELNET), New Delhi.

- Information Deployment and Notification: Through university website, e-notice and notification to the department, centres and hostels
- OPACS – OPAC facility is available here
- Internet Access- 1 GBPS Internet band width connectivity along with Wi-Fi facility extended to the students' hostel also. Users get access full text e-resources from the network system.
- Downloads – Downloading is increasing day-by day. Nearly 30 GB (approx) data has been downloaded per month by the users of the library.
- Printouts – Library provides printout facility on payment basis.
- Reading list/ Bibliography compilation – The library has the provision of preparation or compilation of reading list as well as bibliography as per requirement.
- In-house/remote access to e-resources – In-house access of e-resources; remote access from departments, centers, hostels and administration building.
- User Orientation – Orientation programme organised by the library twice a year
- Assistance in searching Databases: Library staff provides training to first-time users on demand basis, gives assistance to the users for searching documents as well as databases as and when required.
- INFLIBNET/IUC facilities: As one of the member of INLIBNET/IUC user can access every facility which are rendered by them. E-journals and databases accessible from them are as follows:

American Chemical Society, American Institute of Physics, American Physical Society, Annual Reviews, Bio-resource Technology, Cambridge Companion Online (CCO) Literature Collection, Cambridge University Press, Economic & Political Weekly (EPW), Institute of Physics, J-STOR, Oxford University Press, Royal Society of Chemistry, Science Direct (10 Subject Collection), Springer Link, Taylor and Francis, Wiley-Blackwell, ISID (Institute for Studies in Industrial Development), JCCC, Web of Science.

4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals.

Financial Year	Budget Amount
2008-09	66,14,000
2011-12	1,27,74,000
2012-13	46,57,000
2013-14	1,62,01,000
2014-15	1,21,73,000



#### 4.2.9 What initiatives has the university taken to make the library a 'happening place' on campus?

National Seminar on Rabindranath Tagore organised by the Central Library on 14<sup>th</sup> August, 2012, INFLIBNET Regional Training Programme on Library Automation from 2<sup>nd</sup>-6<sup>th</sup> December 2013 organized by the Central Library, University of Kalyani, in collaboration with INFLIBNET Centre, Gandhinagar along with this there was also another programme- a book exhibition was held from 2<sup>nd</sup> to 4<sup>th</sup> December, 2013, Open Access Stack Room (with reading facility) of the Central Library contained all the departmental books, which had been shifted from the different departments of the University, inaugurated on the World Book Day, 23<sup>rd</sup> April, 2014, On 23<sup>rd</sup> & 24<sup>th</sup> April 2014, Book Exhibition on William Shakespeare organized by the Central Library, University of Kalyani, Book Exhibition on Rabindranath Tagore, organized by the Central Library, University of Kalyani on 28<sup>th</sup> -30<sup>th</sup> May, 2014, Book Exhibition organized by the Central Library, University of Kalyani on 22<sup>nd</sup>-24<sup>th</sup> September, 2015, One day workshop on 'User Awareness Programme on Access to E-resources under UGC INFONET Digital Library Consortium' organized by the Central Library on 28<sup>th</sup> September, 2015, Training programme organised by Scopus, Reaxys and other databases.

#### 4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analysed and used for the improvement of the library services?

Feedback of users are collected through feedback form as well as through random verbal inputs from users, Students are also encouraged to write their problems and requirements to the head of the library, Librarian meets with the library staff regarding the complaints received from the users and the same is placed in Library Committee meeting, if required, There is a complaint box at the entrance in the library, The feedbacks and the complaints are processed regularly, Librarian also meets with the students, scholars and faculty members in their respective, departments, interaction programme with users.

#### 4.2.11 List the efforts made towards the infrastructural development of the library in the last four years

Extension of library building, Creation of more reading space, Wi-Fi facility in the library for the users, Seminar hall is built within the library building, CC TV Surveillance system has been implemented, Arrangement of On-Line UPS for smooth function of circulation section, Cycle stand.

### 4.3 IT Infrastructure

#### 4.3.1 Does the university have a comprehensive IT policy with regard to

- The University has made an agreement with Microsoft for licensing service.
- Microsoft volume financial management system, examination management system are conducted through library manager, IT enabled service.
- Information Security: Firewall cum Unified Threat Management(UTM) has been installed in CIRM for Information Security purpose. There is a Central Information Resource Management (CIRM) system operative.

- Network Security: A new UTM cum Firewall has been installed to provide comprehensive network security. It is used to prevent the unauthorized access from internet. A six hundred user licensed antivirus software (KASPERSKY) has been installed.
- Risk Management: 20 KVPS UPS has been installed for uninterrupted power supply at the CIRM to run the machines properly. In near future, we are going to establish a data centre to generate a repository system of the University.
- Software Asset Management: University maintains stock register for the procured software. The university also maintains the database for the software to get the proper access.
- Open Source Resources: The University is using open source resources for teaching and other official purpose of the university. A complete laboratory consisting of 25 pcs along with a two processor Zeon Server have been installed with open source OS and Software at the department of Computer Science & Engineering to promote open source software.
- Green Computing All university circulars are served through university website avoiding use of paper. E-tendering is another such effort. In the finance section, some files are tracked online. In addition 100% online admission system, publication of result and partial electronic distribution of pay slips (to teachers and officials) have been introduced.

#### 4.3.2 Give details of the university's computing facilities i.e., hardware and software.

- Number of systems with individual configurations.  
Total Number of Desktop Computers- 825
- Computer-student ratio  
1:3
- Dedicated computing facilities  
Central Computing facilities of CIRM, consists of (i) Rack Server, (ii) Blade Server, (iii) SAN Storage, (iv) UTM-cum-Firewall facilities and (v) Anti-virus Server. NKN connectivity with 1GBPS speed under NMEICT Project available. Addition GIS lab in the department of Computer Science is available. Server databases such as prowers, IEEE, SCOPUS, EBSCOHOST etc. are available.
- LAN facility  
Academic Departments, Administrative sections, Centres are connected with OFC. Some of centre, departments and the entire administrator building are enjoying WiFi facility.
- Proprietary software  
Microsoft OS Campus Agreement for 1000 users, Red Hat Enterprise Linux, Matlab, SOUL, Tally, Visual Studio, Kaspersky Antivirus, AutoCAD, Adobe, SPSS, MAC OS, Adobe Master Collection CS5.
- Number of nodes/ computers with internet facility  
700 Computers with Internet facility.
- Any other (please specify)  
WiFi facilities are available across the halls of residence along with departments and administrative building. Dedicated OFC connecting for 24X7 internet connection to the boardus of research Scholars halls (both boys and girls) in provide.

#### 4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The university has a committee dedicated for planning and deployment of IT infrastructure with the elective leadership of a full-time system-in-charge. In addition to the above facilities the university has planned for inclusion of the fellowship facilities in the near future.

(i) Web Content Filtering and Caching for better management of web resource, (ii) Complete Wi-Fi campus on 802.11n with fault tolerance and load balancing, (iii) Improved and extended Network Security, (iv) Intranet within university campus for information sharing, dissemination and green computing, (v) Enhanced IP Surveillance, (vi) Backup and Data Repository through a proposed Data Centre with government agreement like NIC, WEBL etc. The following are the near future plans

i) Design, Development and Commissioning of a comprehensive University Management System Software for ICT-based management of both academics and administration, (ii) Installation of IPPBX system (under process), (iii) Connecting second campus with main campus through WiMax, (iv) Video Conferencing Setup through IP, (v) Setting up E-learning environment, (vi) State-of-the-art multimedia lab.

4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.

The following free Portals are used:

1. <http://nptel.ac.in/>
2. <http://nmeict.ac.in/>
3. <http://archive.sakshat.ac.in/>
4. <http://fossee.in/>
5. <http://cec.nic.in/E-Content/Pages/default.aspx>

Additionally, university is providing subscription based e-journal facility (~18000), NKN 1GBPS internet connectivity to access the course materials from different free websites and Wi-Fi facility. In near future we are going to develop the e-content management system for the PG courses.

4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?

In the last four years, LCD projectors, printers, high configuration desktops have been installed in many classrooms. Besides, best of these classrooms have been provided with LAN connections of 1GBPS NKN connectivity. Some of the classrooms have been connected with Wi-Fi network. ICT facilities are used as visual aids to empower teachers to transform the traditional blackboard, chalk and talk methods into interactive sessions. A large number of teachers use web mails and web facilities for online submission and evaluation of student assignments and research writings. The Virtual private Network (VPN) setup for accessing the e-journal from anywhere in the campus or outside campus, to increase the use of e-journals, e-books etc.

4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?

High end desktop and Laptop are available to the faculty members and scholars in the university. Access to Central computing facilities CIRM, E-journal facilities, data base are made available from the office of the teachers from the office as well as from home to the teachers through remote access via VPN server.

4.3.7 Give details of ICT-enabled classrooms/learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?

All smart class rooms and labs are equipped with multimedia projector, desktop computers/laptops with internet facility sound system (audio + video).

4.3.8 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the university for such initiatives?

The CIRM provides assistance to teachers, students and researchers through organizing training/lecture session on the use of e-content generation, power point presentation etc.



#### 4.3.9 How are the computers and their accessories maintained?

In-house staff of CIRM routinely monitors and maintain all Desktop Computers, Laptops, Printers, Servers, EPABX and other hardwares. To protect the campus network from outside threat, a Firewall cum UTM has been installed and maintained by CIRM for security purpose. In addition, centre is also maintaining the campus LAN with Wi-Fi facility. CIRM also provides Antivirus Software, Microsoft VLSC to all machines in the campus

#### 4.3.10 Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?

Yes. 1 GBPS NKN connectivity under NMEICT project has been provided for bandwidth provisioning. Video conferencing with A-View software are also available with the connectivity. The university has recently been selected for free Wi-Fi campus by the MHRD, Govt. of India.

#### 4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?

Yes, The said facility is being provided by Central Library. The university has a policy of providing access to many of these facilities which are not directly available.

#### 4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.

Year	Year	Year	Year
2011-2012	2012-2013	2013-2014	2014-2015
29.30 Lacs	28.85 Lacs	30.60 Lacs	30.85 Lacs

#### 4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?

The university nurtures a plan for providing facilities to all the Faculty members for the use of audio and video presentation in class room. High speed Internet and multimedia desktop computers are made available. Multimedia teaching and learning material are available using university portal. Further university is going to participate in MOOCS and install the MOODLE software for better teaching and learning process.

### 4.4 Maintenance of Campus Facilities

Campus facilities are being given in details which is overseeing by the Estate and Trust Officer (in-charge)

#### 4.4.1 Does the university have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

**Yes,** University of Kalyani has a designated a Officer as Estate and Trust Officer for overseeing the maintenance of buildings, class rooms and laboratories.

A few campus specific initiatives undertaken to improve the physical ambience:

(a) A good nos. of Dust Bins (Pole Mount and Wheel Dust Bins) were installed at different locations near departments, Offices and Sections, (b) All bathroom and toilets in the departments, administrative building, halls of residence, centins were renovated and a few new bathroom and toilet have been newly constructed with modern facility. Womens facilities have been improved, (c) Lawn Mower, Bush Cutter, Mophers an other machines are introduced for cleaning and beautification of the University campus, (d) Extensive gardening activities are in progress, (e) The entire administrative building has been thoroughly renovated with floor titles, paintings, doors and windows upgraded along with other interier decorations, (f) All Dining and Kitchens, toilets of University Hostels are renovated with modern facility, (g) Plantation is being emphasized in the different region of the University ambience considering the assimilation of ultra violet ray. Roads are innovated and the open spaces covered for appropriate works, (h) Regular trimming are being continued for emission of sunlight for dark area, (i)

JCB is being introduced to remove wild bushes, (j) Lady Securities have been employed along with Male Securities for Ladies Hostels, (k) To make the ambience free from scraps and junks, E-Auction is being regularly carried out preferring Govt. undertaking Organizations like MSTC Limited on the basis of MOU, (l) Aqua guards for pure drinking water have been installed for all departments, offices, Sections, Hostels, (m) Boundary wall has been renovated with bricks and barbed wire to make the ambience peaceful and well protected.

#### 4.4.2 How are the infrastructure facilities, services and equipments maintained? Give details.

##### 1. Transport Facilities:

Two 56 seater buses are plying from Kalyani main station which is 5 km. away from Kalyani University for transportation of day scholar students, staff, teachers and visitors. One 26 seater Mini bus has been purchased for transportation of girls students. Two pull car are plying for transportation of University Officers. Car is also being designated for transportation for the Deans of Kalyani University. One Toyota Innova car is utilized for VIP transportation. One new Ambulance has been purchased to supplement the existing one for twenty four hours availability.

2. University has three well furnished Halls (Vidyasagar Sabhagriha treated as Auditorium, Acharya Profulla Chandra, Sir Acharya Jagadish Chandra Bose Hall) at Administrative Building with modern facilities like podium, projector etc for conducting seminar, symposium and administrative meeting etc. Each department has seminar/smart class facility. Carpenter, Sweeper, Electrician, Machinist are deployed for maintenance of above said hall.

3. University has Central Library. The Facility of Library is from 6 a.m to 8 pm. Apart from Librarian and other staff for maintenance of hall a good nos. of Sweeper and Security staff are being deployed.

4. University has e-technology centre. For the building of e-technology, Plumber, Electrician, Security and Carpenter is being deployed for smooth functioning of this building. Regular testing of electrical appliances are conducted.

5. University has sports facility.

(a) Gymnasium. (b) Basket Ball Court. (c) Five Volleyball Court. (d) Three Badminton Court including one indoor. (e) Four footballs Court. (f) One four hundred meter track with other facilities like hammer throw, javelin, discuss throw, putting the shot, high jump, long jump. (g) One Cricket Stadium being run by in collaboration with CAB (Cricket Association of Bengal). (h) Multy Gym were training to budding talents are provided. (i) Six full time Coaches (Football, Volleyball, Badminton, Cricket, Yoga, Khokho). (j) One Yoga Centre established under UGC for promotion of Yoga education in University. Six numbers of Game Attendant are being deployed to keep in order the facilities.

6. Facility for Students coming from remote area.

(a) Five Boys Hostels (Dijendra Lal Bhaban, Vibekananda Bhaban, Meghnath Saha Bhaban, Radha Krishna Bhaban, Jagadish Chandra Hall) for UG and PG students. (b) Two Ladies Hostels (Matangani Bhaban, Nivebdita Hall) for PG and UG students. (c) One boys' hostel (Satyendra Nath Bhaban) for research scholar. (d) One girls' hostel (Lilabati Bhaban) for research scholar women.

Each hostel has foot ball ground, volleyball ground, cricket ground and other indoor facility. Steward, Hostel Super, Security, Sweepers have been functioning for smooth running of hall and ambience.

##### 7. Health Centre:

Primary Health Care with diagnostic facility is being extended for University faternity. Good nos. of Sweepers, Securities, Plumber, Electrician, Technicians have been employed for keeping the building and ambience clean and smooth functioning.

8. University has three gardens name of the gardens are **Bibhutibhusan Udyan, Dijendralal Kanan and Bidhan Chandra Bithi**. One half -bust tribute of Rabindra Nath Tagore is installed at Echo Park. Six Malis are being engaged for gardening and landscaping. Apart from that occasionally hire JCB is being introduced to removed wild bushes.



#### 9. Park:

Echo Park area of 3 acres, run in collaboration with University and Department of Forest, West Bengal which accomadets a large number of medicinal plants, Jalropha Trees. Afforestation is being run in collaboration with University and Department of Forest, West Bengal.

#### 10. Display boards are mounted in various locations indicating

(a) Appeal for maintenance of campus ambience. (b) University Map, (c) Plastic free ambience, (d) Anti-smoking Campaign, (e) Anti-ragging campaign, (f) Campaign for a forestation. (g) Campaign for avoiding wastage of water. (h) A good nos. of mobile and pole mount Dust Bins were installed at different departments, Offices and Sections. (i) Entire campus is free from plastic and plastic related wrapper. (j) Display boards for awareness pertinent to cleaning have been erected on the campus. (k) Almost all University building inside and outside are being painted in a regular interval.

#### 11 Security:

More than three hundred securities are deployed for twenty four hours including lady security through out sourcing. Whole campus is fenced by boundary wall. Ladies Hostels are fenced by boundary wall and barbed wire fencing. Whole night patrolling is being governed to secure the ambience. Important locations like Vice Chancellor's office, Registrar's office, Finance Officer's office, Controller's office are under the surveillance of CCTV. A Committee has been functioning against sexual harassment.

For maintenance of Security one Security Superintendant and one Officer on Special Duty (Security) are employed to supervise security works.

- University has constituted a Security Audit Committee for examining the security assignment being executed by the selected Security Agency.

#### 12. Newly Created Buildings: Completed 48930sq.ft., Ongoing 92900sq.ft.

(a) Four storied Administrative Building. (b) Three storied Chemistry Building with Annex Building. (c) Three storied Botany department. (d) Three Storied Zoology department with one storied Annex Building. (e) Three storied Physics department. (f) One storied Mathematics department with Annex Building. (g) One storied Statistics department. (h) Three storied Bio-Physics and Bio-Chemistry department. (i) Three storied Environmental Science department. (j) Two storied Molecular Biology & Bio-Technology department. (k) Two storied Geography department. (l) Two storied MBA department. (m) Two storied MCA department. (n) Two storied DETS with one storied Workshop. (o) One storied Ecological Engineering and Management. (p) Two storied Rural Development and Management. (q) Three storied composite Building. (r) Two storied Economics department. (s) Two storied Sociology department. (t) Two storied Bengali department. (u) Three storied English department. (v) Three storied Folklore department. (w) One storied Adult & Continuing Education. (x) Two storied with Annex Building Physical Education department. (y) Three storied department of Education with Annex Building.

13. Guest House facility: One three storied and another two storied gust houses with modern facilities are available. An International Gust House of cover area 15000sq. ft is nearly complete.

14. Canteen Facility: Three Canteens and few cafeterias are available.

15. Central Cycle stand is located near Administrative Building. Maintenance of this facilities is being extended by the office of the Estate and Trust Officer (in-charge).

**Annexure: Library resources****List of title with URLs of e-journal databases**

Sl. No.	Full-text E-journals	URLS
1	American Chemical Society	<a href="http://www.pubs.acs.org/">http://www.pubs.acs.org/</a>
2	American Institute of Physics	<a href="http://www.aip.org/">http://www.aip.org/</a>
3	American Physical Society	<a href="http://www.aps.org/">http://www.aps.org/</a>
4	Annual Reviews	<a href="http://www.annualreviews.org/">http://www.annualreviews.org/</a>
5	Bio-resource Technology	<a href="http://www.journals.elsevier.com/bioresource-technology/">http://www.journals.elsevier.com/bioresource-technology/</a>
6	Cambridge Companion Online (CCO) Literature Collection	<a href="http://www.journals.cambridge.org">http://www.journals.cambridge.org</a>
7	Cambridge University Press	<a href="http://www.journals.cambridge.org/">http://www.journals.cambridge.org/</a>
8	Cell	<a href="http://www.journals.elsevier.com/cell/">http://www.journals.elsevier.com/cell/</a>
9	Economic & Political Weekly (EPW)	<a href="http://www.epw.in/">http://www.epw.in/</a>
10	Environmental Science Collection	<a href="http://www.sciencedirect.com/science/browse/sub/environmental">http://www.sciencedirect.com/science/browse/sub/environmental</a>
11	Institute of Physics	<a href="http://www.iopscience.iop.org/journals">http://www.iopscience.iop.org/journals</a>
12	IEEE ASP + POP Combo Package	<a href="http://www.ieeeexplore.ieee.org">http://www.ieeeexplore.ieee.org</a>
13	Indianjournals.com	<a href="http://www.indianjournals.com">http://www.indianjournals.com</a>
14	J-STOR	<a href="http://www.jstor.org/">http://www.jstor.org/</a>
15	Oxford University Press	<a href="http://www.oxfordjournals.org/">http://www.oxfordjournals.org/</a>
16	Project Muse	<a href="http://muse.jhu.edu/browse/">http://muse.jhu.edu/browse/</a>
17	Royal Society of Chemistry	<a href="http://www.rsc.org/">http://www.rsc.org/</a>
18	Science	<a href="http://www.sciencemag.org/journals">http://www.sciencemag.org/journals</a>
19	Science Direct (10 Subject Collection)	<a href="http://www.sciencedirect.com/">http://www.sciencedirect.com/</a>
20	Springer Link	<a href="http://www.link.springer.com/">http://www.link.springer.com/</a>
21	Taylor and Francis	<a href="http://www.tandfonline.com/">http://www.tandfonline.com/</a>
22	Toxicology	<a href="http://www.journals.elsevier.com/toxicology/">http://www.journals.elsevier.com/toxicology/</a>
23	Wiley-Blackwell	<a href="http://www.onlinelibrary.wiley.com/">http://www.onlinelibrary.wiley.com/</a>

**List of bibliographic databases of e-journals**

Sl. No.	Bibliographic Databases	URLs
1	ISID (Institute for Studies in Industrial Development)	<a href="http://www.isid.org.in/">http://www.isid.org.in/</a>
2	Indiastat.com	<a href="http://www.indiastat.com">http://www.indiastat.com</a>
3	JCCC (for Inter Library Loan)	<a href="http://www.jccc-ugcinfonet.in/Search/QuickSearch.asp">http://www.jccc-ugcinfonet.in/Search/QuickSearch.asp</a>
4	Prowess Database	<a href="http://www.cmie.com/">http://www.cmie.com/</a>
5	REAXYS	<a href="http://www.reaxys.com">http://www.reaxys.com</a>
6	Scopus	<a href="http://www.scopus.com">http://www.scopus.com</a>
7	Web of Science	<a href="http://www.webofknowledge.com">http://www.webofknowledge.com</a>

**List of printed journals (Indian)**

Sl. No.	Title of the Journals
1	Abahaman (Bengali)
2	Advances in Biotechnology and Biochemistry Research
3	Anustup
4	Art India
5	Asian Journal of Legal Education
6	Asian Journal of Microbiology, Biotechnology and Environmental Sciences
7	Bulletin of the Allahabad Mathematical Society
8	Business World
9	Calcutta Statistical Association Bulletin
10	Chartered Secretary
11	China Report
12	Clio
13	Contemporary Education Dialogue
14	Contribution to Indian Sociology
15	Data Quest
16	Debarathir Kabba
17	DESIDOC Bulletin of Information Technology
18	Down to Earth
19	Ebong Jalark
20	Ebong Mushayera
21	Economic Affairs
22	Economic and Political Weekly
23	Finance India
24	Fishing Chimes
25	Gender, Technology and Development
26	Higher Education for the Future
27	History and Sociology for the Future
28	IASLIC Bulletin
29	ILA Bulletin
30	India Quarterly
31	Indian Accounting Review
32	Indian Forester
33	Indian Historical Review
34	Indian Journal Social Work
35	Indian Journal of Adult Education
36	Indian Journal of Applied Biotechnology and Biochemistry
37	Indian Journal of Biotechnology & Biochemistry

Sl. No.	Title of the Journals
38	Indian Journal of Business Information Systems
39	Indian Journal of Digital Libraries and Librarianship
40	Indian Journal of Education and Information Studies
41	Indian Journal of Educational Administration and Policy Studies
42	Indian Journal of Environmental Engg. and Management
43	Indian Journal of Environmental Research and Development
44	Indian Journal of Finance and Economic Management
45	Indian Journal of Fisheries
46	Indian Journal of Gender Studies
47	Indian Journal of Genetics and Plant Breeding
48	Indian Journal of Information Science and Education
49	Indian Journal of Information Technology and Library Science
50	Indian Journal of Knowledge Management and Information Technology
51	Indian Journal of Library Automation, Networking and Consortia
52	Indian Journal of Management and Business Studies
53	Indian Journal of Mathematics Research
54	Indian Journal of Medical Research
55	Indian Journal of Microbiology
56	Indian Journal of Philosophy and Social Science
57	Indian Journal of Physics
58	Indian Journal of Plant Physiology
59	Indian Journal of Regional Science
60	Indian Journal of Soft Computing Processing and Technique
61	International Journal of Business and Rural Development Studies
62	International Journal Rural Management
63	International Studies
64	Itikatha
65	Jadavpur Journal of International Relations
66	Jijansa
67	Journal of Advanced Zoology
68	Journal of Biosciences
69	Journal of Chemical Sciences
70	Journal of Economic and Taxonomic Botany
71	Journal of Education for Sustainable Development
72	Journal of entrepreneurship
73	Journal of Environmental Protection
74	Journal of Environmental Science and Engineering

Sl. No.	Title of the Journals
75	Journal of Indian Chemical Society
76	Journal of Interacademia
77	Journal of the Indian Academy of Mathematics, Indore
78	Journal of the Indian Society of Agricultural Statistics
79	Journal of the Institution of Engineers (India) : Series B
80	Kalikalam
81	Korok
82	Lung India
83	Man and Development
84	Marg
85	Margin – Journal of Applied Economic Research
86	Nandan
87	Nattayakatha
88	Natya Chinta
89	Outlook Money
90	Parichay
91	Parikatha
92	Paschimbanga
93	Pollution Research
94	Pramana
95	Psychology and Developing Societies
96	Quarterly Review of Historical Studies,
97	Sahitya Academy
98	Sahitya O Sanskriti
99	Science and Culture
100	Shawar
101	Social Change
102	Sociological Bulletin
103	South Asian Journal of Human Resources Management
104	SRELS Journal of Information Management
105	Studies in History
106	The India Police Journal
107	The Indian Economic and Social History Review
108	The National Geographical Journal of India
109	Tropical Ecology
110	University News
111	Vikalpa: the Journal Decision Market

**List of printed journals (Foreign)**

Sl. No.	Title of the Journals
1	ACM SIGSAC Review
2	Adapted Physical Activity Quarterly
3	American Economic Review
4	American Intelligence Journal
5	Art forum International Magazine
6	Asia-Pacific Journal of Rural Development
7	Ergodic theory and Dynamical System,
8	Harvard Educational Review
9	International Journal of Educational Research
10	International journal of Information and Communication Technology
11	Journal of American Folklore
12	Journal of Chemical Education
13	Journal of Commonwealth Literature
14	Journal of Developing Societies
15	Journal of Economic Literature
16	Journal of Economic Perspectives
17	Journal of Moral Philosophy
18	Modern Painters
19	National Geographic
20	Nature
21	Political Theory
22	Progress in Human Geography
23	Science, Technology and Society : an International Journal
24	Scientific American
25	The Accounting Review: A journal of the American Accounting Association

**List of magazines**

Sl. No.	Name of Magazines	Sl. No.	Name of Magazines
1	Banking Service Chronicle	16	PratiyogitaKiran
2	Bhraman	17	Reader Digest
3	Boyer Desh	18	Renu
4	Civil Service Chronicle	19	Saphalya
5	Competition Success Review	20	Science Reporter
6	Desh	21	Shawar
7	Digit	22	Smart Photography
8	Electronics for you	23	Sopan
9	Frontline	24	Sports Star
10	India Today	25	Success Mirror

Sl. No.	Name of Magazines	Sl. No.	Name of Magazines
11	Nandan	26	Sustha
12	PC Quest	27	Tattyakendra
13	Parikshya Prastuti	28	Yojona(Bengali)
14	PeshaPrabesh	29	Yojona(English)
15	PratiyogitaDarpan		

### **List of newspapers**

Sl. No.	Title of Newspaper
1	The Times of India
2	The Telegraph
3	The Hindu
4	The Statesman
5	Anandabazar Patrika
6	Bartaman
7	Aajkal Patrika

### **Annexure B : Activities by the Central Library for last four years**

**Year 2012 – Book Exhibition**

**Year -2013 - INFLIBNET Regional Training Programme**

**Book Exhibition**

**Year 2014: Inauguration of Open Stack Room of the Central Library**

**Book Exhibition on William Shakespeare**

**Book Exhibition on Rabindranath Tagore**

**Year - 2015**

**Book Exhibition**

**Annexure: Different sections of the Central Library, University of Kalyani**



## CRITERION V: STUDENT SUPPORT AND PROGRESSION

### 5.1 Student Mentoring and Support

#### 5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?

University has a very well organized system for student support and mentoring. Dean of Students' Welfare acts as a nodal officer to coordinate these activities. The following measures are adopted for this purpose:

- Transparency is ensured from admission process to evaluation
- University provides counseling for students at each step
- University has Committee against Sexual Harassment and also Centre for Women studies.
- There is an Anti-ragging committee which ensures ragging free environment in the campus and in hostels.
- NSS helps students to develop different inner potentialities.
- University has a Sports division (under the Dept. of Physical Education) which develops the ability of sports among students.
- Teaching and non-teaching staff guide students during the time of admission and to settle down in University's rules, regulation and procedure.
- University supports financially weaker section by offering different schemes of financial assistance.
- University provides hostel facilities for students.
- Tutorial classes help to fulfill the needs of diverse learners.
- University provides medical support to all students.
- Centre for Information Resource management (CIRM) supports e-learning under LAN and the 1GBPS link internet service provided by the BSNL. The Central Library is an excellent repository of learning aids students, scholars, in their respective area of studies.

#### 5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?

University provides academic mentoring apart from the classroom interaction in the following ways:

- Organizing Field studies, Internship programmes, Educational Tour Work in rural experience etc.
- Assigning term paper, project, dissertation, visit to educational institutions etc.
- Encouraging students to participate in different seminars, workshops etc.
- NET and remedial coaching classes are provided to the students.
- The teachers also provide mentoring beyond the class hours as and when students approach.

#### 5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes.

1. The Finishing School, in the Department of Computer Science & Engineering offers short-term certificate courses to improve the communication and soft skills along with basic understanding of computerized working environment. The regular students, those pursuing their graduation and post-graduation are eligible along with the passed out students from University/ Colleges. This initiative is

aimed at addressing communication skill, personality and technology skill development for opportunities in voice and non-voice based BPO business segments.

2. The university has established Placement cell, Industry – Institute - partnership cell, SC-ST coaching centre for NET, IAS training centre for one regular students.

**5.1.4 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?**

University publishes its Prospectus every year. Students are given this prospectus free of cost. The Prospectus contains the following information:

- Profile of each department
- Courses and capacities
- Admission procedure
- Fee schedule
- Scholarship and concessions
- Academic Calendar
- Support facilities
- Help lines

The Prospectus is uploaded in University's website every year

**5.1.5 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./ Diploma/others (please specify).**

- 5% of students in the PG course of each semester get Merit scholarship
- 5% of students of each semester get Merit-cum-Means scholarship
- 10% of students of each semester holding BPL/ANTODAYA card get full free scholarship
- If the number of applicants in the BPL/ANTODAYA category is less than 10% of the total strength of students of any class, the remaining numbers of full free studentship is distributed among the eligible students of that class as Half Free Studentship.
- University provides one research fellow to each faculty up to the age of 62 for Ph.d. studies.

**5.1.6 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?**

The students in the University receive the above financial assistance from different agencies but such assistance are sought directly through online application portals and the money is transferred directly to the respective students' bank accounts.

**5.1.7 Does the university have an International Student Cell to attract foreign students and cater to their needs?**

The University provides assistance to very few foreign students passing research work through various MOUs.

**5.1.8 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

Yes. The formal requirements are promptly supported.

### 5.1.9 What types of support services are available for

**\* overseas students, \* physically challenged/differently-abled students \* SC/ST, OBC and economically weaker sections \* students participating in various competitions/conferences in India and abroad \* health centre, health insurance etc. \* skill development (spoken English, computer literacy, etc.) \* performance enhancement for slow learners \* exposure of students to other institutions of higher learning/corporates/business houses, etc. \* publication of student magazines**

- **Overseas students:** The University provides accommodation to its overseas students.
- **Physically challenged / differently able students:** Approximately 3% of seats are reserved for this category of students for each courses in the university. Ramp and lift facilities are available in the administrative building and few departments.
- **SC/ST, OBC and economically weaker sections:** - West Bengal Government merit cum means scholarship, University merit cum means scholarship university tuition fees waiver, minorities' scholarships are provided. University also provides NET and remedial coaching centre for the students belonging to the above mentioned categories.
- **Students participating in various competitions/conferences in India and abroad:** The University provides travel assistance, accommodation and registration fee through UGC unassigned and DST-PURSE support.
- **Health centre, health insurance etc.:** The University of Kalyani has a Health Centre for providing medical assistance to its communities. Ambulance facility is available for 24X7 to all the students in case of emergency. It has also a self-financing diagnostic test unit and self-financing ambulance service. There are two full time Doctors and other medical personnel in the Medical Centre. The University is an institutional member of Students' Health Home. Students are being provided medical assistance from the Students Health Home.
- **Skill development (spoken English, computer literacy, etc.):**- The CIRM and central library has a good number of computers with high speed internet facilities and run computer skill development trainings. Department of Adult and continuing education runs various courses in communicative English and basic courses in computer. Department of Computer Science through its finishing school and IIPC conducts common on soft skill development and Spoken English courses.
- **Performance enhancement for slow learners:-** The University provides opportunity for performance enhancement of slow learners by taking individual attention after classes. They are also given multiple opportunities to appear in the examinations.
- **Exposure of students to other institutions of higher learning/corporate/business houses, etc.**  
Students receive exposure to other institutions through the following programmes.
  1. MoU for Partnership and Co-operation between Noble Institution for Environmental Peace (NIEP), Toronto, Canada and University of Kalyani.
  2. MoU on Founding China-India Cultural Exchange Center between Yun nan Minzu University, China and University of Kalyani, India.
  3. Agreement for Cultural, Educational and Research Cooperation between The University of Kansas Medical Center, Kansas City, U. S. A. and University of Kalyani, India.
  4. Agreement for Co operation between University of Lodz, Poland and University of Kalyani, India.
- **Publication of student magazines:** Allmost all the departments , Centres and the halls of residence publish student magazines regularly through partial university support.

**5.1.10 Does the university provide guidance and/or conduct coaching classes for students appearing for Civil Services, Defence Services, NET/SET and any other competitive examinations? If yes, what is the outcome?**

- The University established the Nadia Civil Service Academy in April, 2015 after signing a MOU with Nadia District Administration. The objective of the academy is to introduce tutorials and coaching for aspirants of civil service examinations like WBCS, UPSC, IAS etc. Presently 30 candidates are enrolled in this course.
- University provides guidance to SC/ST students for preparing in NET/SET examinations.
- University recently develops a E-Tech centre for developing job oriented soft skill in ICT among students.

**5.1.11 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies / schemes such as**

**\* additional academic support and academic flexibility in examinations, \* special dietary requirements, sports uniform and materials, \* any other (please specify).**

- 1% reservation is given in PG admission as sports quota
- University provides sports kits for sports person
- When a student or a team is selected for any sports event, special coaching and practice session is organized for them.
- University shows flexibility in attendance and examination schedule within the limit of regulations.
- University organizes Inter college sports every year.
- Teams for various events are also sent to Inter University tournaments organized at other Universities.

**5.1.12 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?**

University has a Placement cell for campus recruitment. The Placement Cell is playing proactive role in extending placement services, students capacity building activities and skills. The structure of the Placement Cell is as follows

(1) Prof.(Dr.) Satyajit Dhar, Chairman, (2) Prof.(Dr.) Jyotsna Kumar Mandal, Member, (3) Prof.(Dr.) Partha Pratim Sarkar, Member, (4) Dr. Isita Lahiri, Member, (5) Dr. Nabin Ghosal, Member, (6) Dr. Priya Ranjan Singha Mahapatra, Member

**5.1.13 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).**

40 students

Some of the IT Organizations are:

TCS, IBM, Tech Mahindra.

Some of the Chemical Companies

Syngenta, Chembiotek.

**5.1.14 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?**

University has an Alumni Association also there are Alumni Associations at different departments, hostels and centres.

Following are the activities and contributions of Alumni Associations to the development of the University:

- Conducting group discussion

- Giving special lectures
- Organizing seminars/ workshops/ lectures,
- Donating books to the library, creating endowments
- Conduct of annual general body meeting and reunion meets of different batch of students
- Organizing cultural programmes

**5.1.15 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

Yes. There are following cells which work various students' grievance:

- Committee Against Sexual Harassment
- Anti Ragging Committee
- Dean of students welfare committee
- Students council

**5.1.16 Does the university promote a gender-sensitive environment by (i) conducting gender related programmes (ii) establishing cell and mechanism to deal with issues related to sexual harassment? Give details.**

University has a Centre for Women Studies which organizes a number of gender related activity.

**5.1.17 Is there an anti-ragging committee? How many instances, if any, have been reported during the last four years and what action has been taken in these cases?**

Yes.

As per clause 6.4 of the Anti-Ragging Committee, UGC Regulations, following committee have been constituted:

1. Vice-Chancellor – Chairperson
2. Dean, Students' Welfare – Convener
3. Dean, Faculty of Science – Member
4. Dean, Faculty of Arts & Commerce – Member
5. Dean, Faculty of Engg. Tech. & Mgt. – Member
6. Dean, Faculty of Education – Member
7. Registrar – Member
8. Inspector of Colleges – Member
9. Secretary, Faculty Councils (PG) – Member
10. Head of all academic departments – Members
11. President/Secretary, Students Union – Member
12. 2/3 Fresher Students (nominated by the Vice-Chancellor) – Member
13. 2/3 Parents of students (nominated by the Vice-Chancellor) – Member
14. Non-teaching employee – representative of Court / Executive Council – Member
15. Any other Committee member nominated by Hon'ble Vice-Chancellor – Member

Only one or two very minor report were dealt promptly.

### 5.1.18 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?

University Executive council comprises of the stakeholders of the university who take active role in policy making regarding advancement of the university.

### 5.1.19 How does the university ensure the participation of women students in intra- and inter-institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.

- University female students take part in inter college cultural and sport competitions on regular basis.
- Students of the university departments and affiliated colleges take part in AIU, cultural and sport competitions as well as youth parliament competition organized by Ministry of Parliamentary affairs.

## 5.2 Student Progression

### 5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.

Students progression	%
UG to PG	NA
PG to M.Phil	2.69
P.G. to Ph.D.	12.68
Ph.D to Post Doctoral	20-25
Employed	
Campus selection	10
Other than campus recruitment	90

### 5.2.3 What is the programme-wise completion rate during the time span stipulated by the university?

Completion rate during the time span stipulated by the University of all programmes is 90-95%.

### 5.2.4 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?

Significant number of students have appeared and qualified in different Central/State services, Defense, Civil Services etc. examinations. Details are shown in Departmental Publication Appendix

### 5.2.5 Provide category-wise details regarding the number of Ph.D./D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.

Total number of Ph.D. awarded from Nov. 2013 to December, 2015: 330

## 5.3 Student Participation and Activities

### 5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation

#### a) Programme Calendar:

#### 1. Inter University Sports Calendar for 2014-15:

Sl. No.	EVENTS	DATE OF PRELIMINARY SELECTION TRIAL	DATE OF COMPETITIONS EZ/ALL INDIA
1	Athletics(M &W )	9-10 Dec.2014	16-20 Jan. 2015
2	Cross country (M &W )	03/09/ 2014	7.10.2014
3	Gymnastics (M &W )	28/08/ 2014	14-18 Oct. 2014



Sl. No.	EVENTS	DATE OF PRELIMINARY SELECTION TRIAL	DATE OF COMPETITIONS EZ/ALL INDIA
4	Power Lifting (M &W )	3 <sup>rd</sup> week of Nov. 2014	22-28 Dec. 2014
5	Shooting (M &W )	---	---
6	Yoga (M &W )	18/01/2013	10-13 Feb. 2014
7	Kabaddi (W)	19/08/2014	27Sep. - 01 Oct. 2014
8	Kho-Kho (W)	20/08/2014	Inter zonal 15-20 Nov. 2014
9	Table Tennis (M &W )	27/08/2014	27Sep. - 01 Oct. 2014
10	Volleyball (W)	26/08/2014	27Sep. - 01 Oct. 2014
11	Badminton (M&W)	28/10/2014	01-05 Dec. 2014
12	Cricket (M)	28/08/2012 -29/08/2014	Inter Zonal 7-13 Nov. 2014
13	Football (M)	12/08/14-13/08/2014	20-25 Oct. 2014
14	Handball (M&W)	02/09/2014	Inter zonal 16-19 Nov. 2014
15	Kabaddi (M)	Last week of sep.2014	Inter zonal 9-13 Feb. 2015
16	Kho-Kho(M)	22/08/2014	Inter zonal 5-8 Jan. 2015
17	Volleyball (M)	04/09/2014	16-20 Oct. 2014

## 2. Date for KU Inter-College Tournaments 2014-15

Sl. No.	Sport Discipline	Tentative Date for Tournament
1	Football (Men)	In the month of August, 2014
2	Kho-Kho (Women)	3 <sup>th</sup> week of Sep.2014
3	Kho-Kho (Men)	3 <sup>th</sup> week of Sep. 2014
4	Kabaddi (Men)	2 <sup>nd</sup> week of Aug. 2014
5	Kabaddi (Women)	2 <sup>nd</sup> week of Aug. 2014
6	Table Tennis (Men)	1 <sup>st</sup> week of Sep. 2014
7	Badminton (Men)	3 <sup>1st</sup> week of August, 2014
8	Cross Country Race (M & W)	2 <sup>nd</sup> Week of September, 2014
9	Handball(Men)	3 <sup>rd</sup> Week of November,2014
10	Volleyball(Men)	3 <sup>rd</sup> week of Aug. 2014
11	Cricket(Men)	3 <sup>rd</sup> Week of November,2014
12	K.U. Annual Athletic Meet	In the month of Jan. 2015

## B) Students Participation:

### Report of Kalyani University Inter College Tournaments 2014-15

Sl. No.	Name of the Tournament	Organizing Unit and Organizing Secretary	No. of Teams Participated Form Districts	No. of Players Participated	Results of the Tournament	Date of Tournament
1.	Athletics (M & W)	K.U (Mr. S. Bauli)	Nadia: 17 Murshidabad: 13	Men: 316 Women: 169	Winner: Dept. of Phy.Education, K.U. Runner-up: Srikrishna College	19-20 <sup>th</sup> March 2015
2.	Kho-Kho (M)	Sports division. (Mr. T. Saha)	Nadia-4 Mushidabad-1	60	Winner: Dept. of Phy.Education, K.U.	26.03.2015



Sl. No.	Name of the Tournament	Organizing Unit and Organizing Secretary	No. of Teams Participated Form Districts	No. of Players Participated	Results of the Tournament	Date of Tournament
					Runner-up: Srikrishna College	
3.	Kho- Kho (W)	Sports division (Mr. T. Saha)	Nadia-5 Mushidabad-0	60	Winner: Srikrishna College Runner up: Dept. of Phy. Education, K.U .	26.03.2015
4.	Badminton (M)	Sports division (Mr. S.C.Roy)	Nadia-12 Mushidabad-5	40	Winner-: DODL, K.U Runner-up: S.R.L.M.	25.03.2015
5.	Badminton (W)	Sports division (Mr. S.C.Roy)	Nadia-4 Mushidabad-4	21	Winner: Berhampore Girls College Runner-up: S.R.L.M.	25.03.2015
6.	Cross Country (M&W)	Sports division (Mr. H.S.Betal)	Nadia-6 Mushidabad-0	Men: 16 Women: 09	Winner: Runner- up:	25.03.2015
7.	Kabaddi (M)	Sports division (Mr. K.K.Das)	Nadia- 8 Mushidabad-2	120	Winner: Chakdaha College Runner-up: Kalyani Mahavidyalaya	25.03.2015
8.	Kabaddi (W)	Sports division (Mr. K.K.Das)	Nadia- 4 Mushidabad-0	48	Winner: Dept. of Phy. Education, K.U .Runner-up: Kalyani Mahavidyalaya	27.03.2015
9.	Volleyball (M)	Sports division (Mr. S.C.Roy)	Nadia: 8 Murshidabad: 4	142	Winner: Chakdaha College Runner-up: Santipur College	26.03.2015

**Report of Kalyani University team for the participation in East Zone & All India Inter university tournament for last Five years**

**Session 2014-15:**

Sl. No.	Sports Discipline	Level of the tournament	Men	Women	Total
1	Athletics	All India	5	1	6
2	Badminton	East Zone	5	--	5
3	Cricket	Ajoy Ghosh Trophy	16	--	16
4	Gymnastics	All India	4	5	9
5	Handball	East Zone	12	--	12
6	Kabaddi	All India	12	--	12
7	Kabaddi	East Zone	12	12	24
8	Kho-Kho	East Zone	12	12	24
9	Volleyball	East Zone	12	--	12
Total			90	30	120

\* Kabaddi (Men) team qualified for All India Tournament, \* Volley ball (Men) team qualified for quarter final, \* Badminton (Men) team qualified for Pre-quarter final, \* Kho-Kho (Men) team qualified for quarter final.

**Session 2015-16 (Up to December 2015):**

Sl. No.	Sports Discipline	Level of the tournament	Men	Women	Total
1	Athletics	All India	10	01	11
2	Badminton	East Zone	5	--	5
3	Cricket	Ajoy Ghosh Trophy	16	--	16
4	Aquatics	All India		01	01
5	Football	East Zone	18	--	18
6	Kabaddi	All India	12	--	12
7	Kabaddi	East Zone	12	12	24
8	Kho-Kho	East Zone	12		12
8	Kho-Kho	All India	12		12
Total			97	14	111

\* Kabaddi (Men) team qualified for All India Tournament (East Zone Runner-up), \* Football (Men) team qualified for quarter final, \* Kho-Kho (Men) team qualified for All India Tournament (East Zone Champion), \* Kabaddi (Women) team qualified for pre-quarter final.

**5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.**

**Performance of our students in various festivals/programmes:**

Year	Events	Award
Inter University East Zone Youth Festival 2012-13	<i>Event</i>	<i>Position</i>
	1. Classical Vocal Solo	1 <sup>st</sup>
	2. Classical Dance	1 <sup>st</sup>
	3. One Act Play	2 <sup>nd</sup>
	4. Installation	2 <sup>nd</sup>
	5. Poster Making	3 <sup>rd</sup>
	6. Instrumental (Percussion)	3 <sup>rd</sup>

Year	Events		Award
Inter University East Zone Youth Festival 2011-12	Event		Position
	1. Classical Vocal Solo		-
	2. Classical Dance		-
	3. One Act Play		-
	4. Installation		-
	5. Poster Making		-
	6. Instrumental (Percussion)		-
Inter University East Zone Youth Festival 20110-11	Event		Position
	1. Skit		1 <sup>st</sup>
	2. Spot Photography		1 <sup>st</sup>
	3. Quiz Contest		3 <sup>rd</sup>
	4. College		3 <sup>rd</sup>
	5. Clay Modeling		3 <sup>rd</sup>
	6. Group Indian Song		3 <sup>rd</sup>
National Inter- University Youth Festival 2012-13	Event	Position	No. of the Students
	1. Classical Vocal Solo	1 <sup>st</sup>	1
	2. Classical Dance	3 <sup>rd</sup>	1
	3. One Act Play	1 <sup>st</sup>	8
	4. Installation	4 <sup>th</sup>	4
National Inter- University Youth Festival 2010-11	Event	Position	No. of the Students
	Spot Photography	2 <sup>nd</sup>	1
Youth Parliament Competition 2013-14	The Group Level Youth Parliament Competition at our University was held on 24.03.2015. Hon'ble Vice-Chancellor Professor Rattan Lal Hangloo inaugurated the said competition. Students of our University participated in the said Competition		
Youth Parliament Competition 2012-13	The Group Level Youth Parliament Competition at our University was held on 20.03.2013. Hon'ble Vice-Chancellor Professor Dilip Kumar Mohanta inaugurated the said competition. Students of our University participated in the said Competition		
Youth Parliament Competition 2011-12	Our university has organized the "Group Level Competition" of the 11 <sup>th</sup> National Youth Parliament Competition for universities 2012-13 during the month of September 2012 at our university.		

### 5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?

Yes

### 5.3.4 How does the university involve and encourage its students to publish materials like catalogues, wall magazines, college magazine, and other material? List the major publications/ materials brought out by the students during the last four academic sessions.

Wall magazines are published by the students of the respective departments

## CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

### 6.1 Institutional Vision and Leadership

**6.1.1. A formal Vision, Mission and Values Statement of the university was framed by the Director, IQAC, and duly endorsed by the top management as well as the IQAC Board of Members.**

#### **Mission – The Main Guidelines**

1. Harmonising broader academic activity and the local community
2. Creating environmental awareness
3. Creating consciousness of basic human rights and entitlements
4. Focusing on rural economy and the need and aspirations of the youth in the region
5. Promoting inter-disciplinary research and a balance between basic and applied research programmes
6. Extending its reach and ensure access

#### **Visions for the Future**

1. To encourage student enrolment from among weaker sections, even beyond the reservation limit
2. To establish a finishing school and training centre and exposure of the students passing out so that they become readily employable in specific fields
3. To introduce PG courses in non-conventional subjects and short-term utility courses having job potentiality
4. To establish a strong partnership between the university and industry houses
5. To explore academic exchange with more and more academic institutions of repute
6. To improve the existing infrastructure – both academic and physical
7. To create natural ambience by developing the vast green campus not only through beautification programme but also by generating resources

**6.1.2. The institution's distinctive characteristics in terms of addressing needs of the society and the students**

Please see the Profile of the University already given in the SSR

#### **6.1.3. Involvement of the leadership**

As per the Acts and Statute of the University of Kalyani, Vice-Chancellor is the Head of the Institution. He oversees both the academic and administrative functions through Deans of the faculties, Registrar, Finance Officer, Controller of Examinations, Inspector of Colleges and some other officers. Further, various sorts of academic and administrative issues are managed by him through Heads of the Departments of both academic and administrative, directors of respective centres, Project Investigators of different research projects and Coordinators of various programmes. The University has various statutory committees where decision for handling several academic and administrative issues are taken under the chairmanship of the Vice-Chancellor. Representatives from all communities of the University even the representatives of the local bodies and other stakeholders participate to the meetings/programmes organized by such statutory committees. As such, every aspect like organisation's management system, interaction with stakeholders, reinforcement for culture of excellence and identifying organizational needs are taken care of through active leadership of the Vice-Chancellor.

**6.1.4. Vacancy in the top leadership positions of the university**

No.

**6.1.5. Filling in all positions in the various statutory bodies**

Yes.

**6.1.6. Promotion of a culture of participative management**

Yes.

- Vice-Chancellor to Deans of Faculties
- Vice-Chancellor to HODs of both Academic and Administrative Departments
- Vice-Chancellor to representatives of different communities like teaching, officer, students, research scholars and other stakeholders
- Teachers to Students
- HODs to Departmental Teachers/Officers
- HODs to Non-teaching employees of respective departments
- Officers to Project Investigators/Coordinators

**6.1.7. Academic and administrative leadership provided by the University to its affiliated colleges**

University organizes several programmes for Colleges under its affiliation ranging from conducting examinations, curriculum design, moderation and paper-setting, evaluation of answer scripts award of marksheet to the students, to organizing inter-college sports and other programmes. University has separate College Development Council, Under Graduate (UG) Council, and Inspector of Colleges (IC) for monitoring college issues. Besides other issues like Registration, Migration, Verification of results with the Department of Registrar.

**6.1.8. Provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges**

No such provision exists at present.

**6.1.9. Grooming leadership at various levels**

University always appreciates active leadership in all its communities. Leadership is sometimes determined through election and sometimes through selection/nomination. At student level, it is mostly determined through election for monitoring students' activities. Besides, there are certain areas of interest like photography, arts, music, debates etc. where leadership is determined through competition either inter-university levels or inter departmental levels of the University. At Teaching level, apart from choosing leader through selection of Dean of the Faculties and representatives for teachers association through election, the leadership is segregated into different areas covering several statutory and non-statutory bodies/committees. At Officer level, the leadership is usually generated through selection of representatives for the Officers Association and also through membership at various committees inside and outside the University. At non-teaching level, leadership is groomed through functioning of several university bodies where non-teaching employees are selected as members.

**6.1.10. Evolution of a knowledge management strategy**

University organizes special lectures, orientation programmes, refresher courses, workshops and several faculty development programmes as a part of knowledge management strategy. Further, faculty members and officers often participate to various seminars, workshops etc. wherefrom they have a scope to manage their knowledge and skill for teaching, research and several university affairs. Besides, direct access to e-journals, e-books and several on-line books and journals through internet has taken a significant role for knowledge management strategy. Further, several research papers, thesis, books,

monographs dissertations etc. published from the University has evolved effective knowledge management strategy.

#### **6.1.11. Values reflected in the functioning of the University**

##### **\* Contributing to national development**

University produces students having sufficient knowledge and skills to serve the society as well as nation. Faculty members of the University inspires the students to excel at their respective fields associated with the development of the nations. Faculty members, themselves, take part directly for nation development through consultancy and running various programmes related with society development.

##### **\* Fostering global competencies among students**

University designs their course curriculum keeping in mind the developments made globally on various subjects. Students are given opportunities to make them globally competitive through participating in various national and international programme.

##### **\* Inculcating a sound value system among students**

Students are being engaged to various programmes having social and human values like NSS, Yoga etc. Several social outreach programmes are being organized specially under the Department of Adult & Continuing Education and Extension, to inculcate discipline and delication.

##### **\* Promoting use of technology**

University has an existing set up for ICT enabled learning at Centre for Information & Research Management (CIRM). Recently, University has constructed E-Technology Building wherefrom students, teachers and others can get the advantage for IT related services. University has several computer labs at various departments where multimedia projectors are available. University has graduated himself fully for taking the advantage of e-governance system introduced by several funding agencies.

##### **\* Quest for excellence**

- Pursuing quality research in traditional and emerging areas
- Constant modification of course curriculum and syllabus
- Effective use of collaboration and MOU with several national and international bodies and educational institutions

## **6.2 Strategy, development and deployment**

### **6.2.1. Perspective plan for development**

- To open new departments in emerging areas
- Attempting to increase Gross Enrollment Ratio (GER)
- To employ more quality researchers
- Extending the scope of CBCS and strengthening the continuous assessment system
- Establishing 100% ICT enabled atmosphere for teaching learning
- Establishing credit transfer system in all courses
- Strengthening of library including e-books and e-journals and UGC – Infonet / inflibnet Programme
- Community participation through N.S.S. and Adult Education programmes
- Special training for competitive examinations
- To sign MoU with international Universities for research collaboration

- To develop appropriate work force for future development

### 6.2.2. The university's internal organizational structure and decision making processes and their effectiveness

#### Statutory Bodies:

1. The Court
2. The Executive Council
3. The Finance Committee
4. The Board of Studies
5. Departmental Committees
6. Faculty Councils.

#### Academic structure:

1. Chancellor
2. Vice-Chancellor
3. Dean of the Faculties
4. Head of the Departments
5. Teaching Faculties

#### Administrative Structure:

1.	<b>Vice-Chancellor</b>	
2.	<b>Registrar</b>	Deputy Registrar Assistant Registrar
3.	<b>Finance Officer</b>	Account Officer Audit Officer
4.	<b>Controller of Examinations</b>	Deputy Controller Assistant Controller
5.	<b>Inspector of Colleges</b>	
6.	<b>Librarian</b>	Deputy Librarian Assistant Librarian
7.	<b>Secretary, Faculty Council</b>	
8.	<b>Development Officer</b>	
9.	<b>University Engineer</b>	Assistant Engineer (Civil) Assistant Engineer (Electrical)

### 6.2.3. Formal policy to ensure quality

University set up Internal Quality Assurance Cell(IQAC) to ensure quality in imparting education. This cell ensures quality in teaching, research and other academic issues including promotional issue of the teachers through Board of studies, departmental research committees, departmental committees and faculty councils. In addition, there is an Academic Excellence Committee to ensure quality

### 6.2.4. Encouragement provided to the academic departments to function independently and autonomously

University provides autonomy for each department to frame their course curriculum and syllabus, conduct examinations, prioritize research areas. University encourages every department to send annual reports of their progress.



**6.2.5. Court cases filed against the institute**

The university has a legal cell with support of a legal officer. Very few cases filed against university are dealt promptly.

**6.2.6 Attending to grievances / complaints**

University has an office under the guidance of the Dean of Students Welfare(DSW) where grievances/complaints related with students are taken care of. For rest of the stakeholders, all such grievances/complaints are taken care of by the Office of the Registrar. Further, University has a Legal Cell wherefrom expert opinion is taken to resolve the said issue.

**6.2.7 Student feedback on institutional performance**

The University collects feedback from students for the following issues through a feedback form prepared by IQAC.

1. Depth of Course content
2. Extent of coverage of course
3. Interest generated by the teacher
4. Accessibility of the teacher in and out of the class
5. Students' background for benefiting from the course
6. Whether the students are able to get the prescribed readings
7. The teacher's preparation for the class
8. Opportunity for personal interaction with teacher
9. Whether External experts are invited to address the students
10. Is the admission procedure clean & fair?
11. Are the laboratories adequately equipped and properly maintained?
12. Is Library holdings of the concerned subject sufficient ?
13. The student teacher relationship in the Department
14. Students' participation in the extracurricular activities
15. Relationship with the Students' Union
16. Overall Impression of the University after passing out
17. Usefulness of teaching material
18. Timeliness of practical work
19. Fairness of evaluation
20. The help rendered by the administrative office
21. Library facilities
22. Computer facilities
23. Sports facility

**6.2.8. Performance audit of the various departments**

University collects monthly report from every department to assess the performance of various departments. Further the university collects Self Appraisal Report (SAR) of the teachers.

**6.2.9. Identification of the developmental needs of affiliated institutes**

University constantly monitors the academic standards of its affiliated colleges and renews affiliation on the basis of observance rules and regulations as set out by the University for affiliated colleges. The

Inspector of Colleges(IC) oversees the issue of such affiliation and report directly to the Vice-Chancellor on performance of each affiliated college and diagnose the areas where more development is necessary.

#### **6.2.10. College Development Council (CDC)/ Board of College and University Development (BCUD)**

University has its own College Development Council (CDC) to look into the academic/administrative problems of its affiliated colleges. The Council has an access to visit every affiliated college to monitor the academic and infrastructural facility of each college.

### **6.3 Faculty empowerment strategies**

#### **6.3.1 Enhancement of the professional development of teaching and non-teaching staff**

University takes following strategies towards faculty empowerment:

1. Sanctioning study leave for Ph.D. with pay
2. Sanctioning Leave for Post Doctoral Research
3. Sanctioning Leave for teachers for participation to conference/seminar/symposium
4. Provides financial assistance to departments to organize seminar/workshop through UGC unassisted grant and DST-PURSE grant
5. Providing funds support for running research

#### **6.3.2. Review of various appraisal methods used by the university**

University introduced performance appraisal system through calculation of Academic Performance Ratio(APR) as per UGC norms. Career Advancement Scheme (CAS) is being monitored for each faculty members on the basis of such APR. Students Feedback is also taken while measuring such APR and finally evaluating the performance of each faculty member.

#### **6.3.3. Welfare schemes available for teaching and nonteaching staff**

There are following welfare schemes available at the University:

1. Health Centre
2. Ambulance Facility for 24 hours
3. Transport Facility
4. Group Insurance Scheme
5. Staff Co-operative Society
6. Festival Advance
7. Provident Fund
8. Staff Quarter
9. Assistance for House Building Loan through designated banks

#### **6.3.4. Measures taken by the University for attracting and retaining eminent faculty**

Traditionally, University does not have any special pay package or incentive scheme to retain popular teachers. But since the University has reputation of its own for more than 50 years, Faculty members of eminence automatically express their interest to be retained here due to friendly and healthy teaching /research atmosphere of the University.

#### **6.3.5. Gender audit**

Steps have been initiated in the University for conducting gender audit under Centre for Women's studies.

### **6.3.6. Gender sensitization programmes for the faculty**

University has conducted various workshop/seminar on Gender sensitization programmes for the faculty. Details are given in the profile of the centre.

## **6.4. Financial Management and Resource Mobilization**

### **6.4.1. Institutional mechanism available to monitor the effective and efficient use of financial resources**

University adopts following mechanism to monitor the effective and efficient use of financial resources:

1. Preparing budget for the coming financial year and revised budget in the rest months of the running financial year and submitting the same to the State Government after being passed by the Finance Committee, Executive Council and the Court.
2. Monitoring expenses on the basis of budgetary allocation through taking Money Sanction from the Vice-Chancellor
3. Making expenses on the basis of such money sanction
4. Preparation of Annual Accounts on the basis of actual money sanction to get it audited by CAG after passing the same to the Finance Committee

### **6.4.2. Internal and external audit**

University maintains its internal audit at the time of checking and passing the bills and vouchers after thorough verification of the head of accounts, budgetary allocation, monetary sanction and documents attached with the vouchers. After satisfying on the same, all the bills are passed and accounted for.

External Audit is made by the CAG almost in every year and submits their report after making audit.

### **6.4.3. Regular audit of the institutions accounts**

The University is regular in making audit of its accounts. Till date Accounts for the year 2013-14 have already been audited and the accounts for 2014-15 is awaiting for audit.

### **6.4.4. Audited income and expenditure statement of academic and administrative activities of the last four years**

Please see Audited Income and Expenditure Statement for the financial years 2010-11, 2011-12, 2012-13 & 2013-14.

### **6.4.5. Efforts taken by the University for Resource Mobilization**

University has taken following steps to mobilize its resources:

1. Collecting Affiliation Fees both for subject affiliation and course affiliation: 160 lakhs for 2013-14
2. Collecting course fees for self financed courses in addition to the traditional courses:
3. Collecting testing fees for testing made at different academic departments: 5.5 lakhs for 2013-14
4. Collecting sports fees for providing sports facilities: 31.57 lakhs (13-14)
5. Collecting rent from lease made on fruits from the University trees: 10 lakhs(13-14)
6. Collecting consultancy fee for providing consultancy services to any concern outside the University: 0.43 lakhs (13-14)
7. Sale of scrap: 0 ~ 0.2 lakhs (13-14)
8. Sale of forms/challans/bus coupons: 23.55 Lakhs (13-14)
9. Overhead collected from funding agencies at the time of releasing grants to run research projects/schemes: 18.40 lakhs
10. Interest from the Fixed Deposit: 467.74 lakhs (13-14)

11. Rent from Bank, University premises and staff quarters: 4.38 lakhs (13-14)

#### **6.4.6. Provision for the University to create a corpus fund**

The University has created corpus fund (~ 1740 lakhs) where the income generated by the University is accumulated. In addition, University has several endowment funds.

### **6.5. Internal Quality Assurance System**

#### **6.5.1. Academic audit of the departments**

Academic audit of each department is made annually and placed before the Faculty Council for its onward function.

#### **6.5.2. Specific measures taken by the University to improve teaching, learning and evolution**

University has taken few steps based on the recommendation came out from academic audit:

1. Improvement of teaching learning methods through introduction of ICT enabled environment in various class rooms and faculty rooms
2. Extending the scope of access for e-journal through Central Library
3. Collection of Students Feedback on teaching made by several faculty members and their processing for the improvement of teaching
4. Introduction of the system of publication of Newsletter and Departmental Journal every year containing the progress made by each department
5. Introduction of Quality Assessment System for faculty members based on APR

#### **6.5.3. Continual review of the teaching-learning process**

University set up Internal Quality Assurance Cell(IQAC) for reviewing the teaching learning process. The structure of IQAC is as follows:

1. The Vice-Chancellor, Chairman
2. Director, IQAC
3. Eight Faculty members of the University
4. Three external experts
5. Development Officer, Convener

#### **6.5.4. Contribution of the IQAC towards institutionalizing quality assurance strategies and processes**

1. Improvement of teaching learning methods through introduction of ICT enabled environment in various class rooms and faculty rooms
2. Extending the scope of access for e-journal through Central Library
3. Collection of Students Feedback on teaching made by several faculty members
4. Introduction of the system of publication of Newsletter and Departmental Journal every year containing the progress made by each department
5. Introduction of Quality Assessment System for faculty members based on APR
6. Introduction of CBCS and credit transfer system in all PG Courses
7. Introduction of Central Instrumentation Facility
8. Introduction of New Centres and Finishing School
9. Introduction of 5-year integrated course
10. Introduction of Project Work in all PG Courses

**6.5.5. Decisions of the IQAC placed before the statutory authorities of the University for Implementation**

The IQAC has submitted its annual report to the Vice-Chancellor.

**6.5.6. External members on the committees of the IQAC**

1. Prof. Purusottam Sen, Finance & Control, IIM, Calcutta
2. Ms. Smita Pandit Chakraborty, Regional Coordinators, CII
3. Dr. Nilimesh Roychoudhuri, Chairman, Kalyani Municipality

The above external members share their thoughts and experiences on quality improvement of education in different ways. They review the existing position of the University on qualitative aspects of teaching, learning and research and give their best possible advices for betterment of the quality of imparting teaching, learning and research process.

**6.5.7. Study on the incremental academic growth of students from disadvantaged sections of society conducted by the IQAC**

University has a department namely Adult Continuing Education & Extension and a centre namely SC/ST Centre to look after the students from disadvantaged sections of society. The performance of such activities is reviewed by IQAC.

**6.5.8. Policies for the periodic review of administrative and academic departments, subject areas, research centers, etc.**

1. Review of departmental Journals and newsletters of each department and compilation thereof in the form of Annual Report
2. Assessment of the performance of each faculty member through API score and students feedback on academic performance made by each faculty
3. SWOC analysis of each academic and administrative department, centres and other bodies
4. Extending the scope of use of ICT for teaching –learning process
5. Extending the scope of use of computer for administrative works
6. Organizing training programme for teachers, officers and non-teaching for upgradation of their skill to impart more effective and efficient service



## CRITERIA VII : INNOVATIONS AND BEST PRACTICES

### 7.1 Environment Consciousness

The University of Kalyani provides immense importance to environmental aspects and perhaps is one of the rarest universities wherein two separate academic departments and two research centres on Environment exist. It is blessed with a vast green campus with natural vegetation and isolated from the din and bustle of locality providing little environmental problems. However, it strongly inculcates a sense of environmental awareness in all the sections of its stake holders throughout various programmes.

#### 7.1.1 Does the University conduct a Green Audit of its campus?

Yes; A committee under the joint leadership of Professor S.C. Santra of the Department of Environmental Science and Professor S. K. Mukherjee of the Department of Botany has done extensive compilation of the audit. The details are included in the annexure.

#### 7.1.2 What are the initiatives taken by the University to make the campus eco-friendly.

##### **Energy Conservation:**

Energy Audit is carried out annually to identify how and where electricity is being wasted. The monthly electric consumption in the University campus is 170.336MWh. All hostels, quarters, centres, canteens etc have now been provided with separate electric meters. Students, researchers and employees are encouraged and trained to switch off powers of fans, lights, computers whenever there is no need of this. The university is switching over to low power consuming lamps like CFL lamps and LED lamps as far as practicable. The University has also planned to use renewable source of energy especially solar energy for some of its lighting and heating requirements and plans to switch to solar energy sources in a big way in near future. The Ecopark is already lighted with solar energy.

##### **Use of renewable energy:**

The University has adopted a plan to install solar lights in few buildings.

##### **Water Harvesting:**

The monthly water consumption was 1156587 US Gallon. There is some rainwater harvesting and natural recharge of groundwater ponds established in the university campus.

There is one large water body in the campus which is cleaned time to time. Water from this is used for construction works in the campus.

##### **Carbon Neutrality:**

There is complete ban on selling of tobaccos in the campus and smoking is prohibited.

Limited access to vehicles creates less pollution.

All sections of University are encouraged to switch off power whenever not in use.

##### **Plantation:**

The University consciously encourages planting of trees in the campus even if it being rich in number of trees. More than three hundred saplings have been planted during the year 2015.

##### **Hazardous waste management:**

Bio-Medical Waste Disposal: **Complying with the Norms & Guidelines of 'Bio-Medical Waste (Management & Handling) Rules 1998 and its Amendments, regular payment is made to Kalyani Municipality for autoclave service of Bio-Medical waste disposal, as generated on day to day practice.**

Besides, e-waste is managed through one NGO. The e-waste is minimized through



(i) The policy of buy-back system the University is following with the suppliers, (ii) If possible upgrading the system before opting for replacement or dumping for the buyback system

## 7.2. Innovations

7.2.1. Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the University

Decentralized governance is practiced by constituting committees to create a democratic and inclusive ambience. This has created immediate opportunities to our stake holders to resolve their issues, if any.

Instilling social responsibility by encouraging participation in NSS, Blood donation camps, various awareness programmes, health camps etc are practiced on regular basis.

Creating a gender friendly environment for women faculty, students, researchers, support staff to fulfill their potential is achieved through the involvement of the sexual harassment cell.

Encouragement of our students and researchers and recognition of their excellence is done through various awards, medals and prizes.

For the students coming from a rural backdrop a special coaching centre is catering their needs

Entire transparency in admission is maintained through online admission system.

Significant transparency in finance is conducted through disbursement of payments to accounts.

Social responsibility is embraced through conducting various training programmes on self-earning and self-learning to nearly illiterate peoples (around one thousand every year) of the region.

## 7.3. Best Practices

1. Title of the Practice

- Inculcation of Culture of research in a state aided institution with limited resources

### Objectives of the Practice

The University of Kalyani has a strong background of research over the years which are sustained through deliberate practice of encouragement, recognition and appraisal of the culture of research. This is being done through the following practice.

### The Context

Kalyani University has a rich heritage of research and we have progressed to the present stage through the shoulders of the giants like Professor S. P. Sen, F.N.A., Professor G. K. Manna, F.N.A., Prof. P. Sengupta, F.N.A., Professor B. K. Lahiri, Professor S. Dattagupta, Prof R Shaw, Professor K. C. Majumdar to name a few. On one hand, the scientific and technological developments are progressing at phenomenal pace while on the other hand funding, opportunity and human resource for research is somewhat dwindling. Being a state-aided university, the constraints are more here. The university has adopted a policy to sustain and improve its research potential through several measures.

### The Practice

The following practices have been adopted by Kalyani University to promote research.

- (1) Kalyani University provides one University Research Fellow to each teacher for his entire career up to super-annuation at the age 62. The fellow is provided contingency of Rs 10000 per year.
- (2) Each and every teacher is provided annual personal research grant.
- (3) Teachers and researchers of this university are encouraged to participate in National and International symposia by providing travel grant.
- (4) National and International collaboration are encouraged through providing paid leave.
- (5) Publication is encouraged by providing grant, wherever appropriate.

- (6) Upgradation of research facilities are encouraged through providing significant portion of the overhead charges.
- (7) Few researchers have availed Erasmus programme for carrying out advance research in foreign institute.

### **Evidence of success**

Our efforts throughout the years have indeed paid some dividend. Recently, the Department of Science and Technology, Government of India has recognized our research potential through grant of Rs 9 crores over three years under DST-PURSE programme. Besides, a significant number of the departments (detailed elsewhere) are under UGC-SAP, DST-FIST and other programmes.

Our publication profile has increased significantly. Not only the number, the quality of research publications have increased to a significant extent. The H-index, citations and the impact factor- the three parameters – have all increased significantly. These are detailed elsewhere.

### **Best practice 2.**

#### **Title of the practice**

Ensuring transparency in all matters related to academic, administrative and Financial matters

#### **Objective of the practice**

The objectives include

- (i) Academic and Administrative Transparencies
  - To provide equal opportunities to all aspirants seeking admission in various courses through transparency in admission procedure (100% online)
  - To provide justice to various stake holders through addressing grievances, complains, RTIs etc
  - To provide equal access to all users of facilities through log books and first-cum-first serve basis
- (ii) To provide transparency in all matters related to Finance

#### **The Context**

Maintaining transparency in financial matters is a prime matter of concern to any growing institution. We strongly believe in the saying “a penny saved is a penny earned” and try our best to curb wastage of money. A significant number of administrative steps have been recently taken so that financial transparency is visible for the expenditure of even a single rupee. Some of these are detailed below.

#### **The Practice**

- Payments and disbursement of money to vendors through account payee cheques/NEFT are made.
- All audited statements of accounts are uploaded in the website for inspection.
- All complains received are resolved in the Finance Committee
- Purchase of goods and services are made through Central purchase committee
- Procurement of works related items including construction is made through works and tender committee
- E-tender system has been introduced for the purchase of items costing more than Rs five lakhs.
- Fee structure for all courses are provided in the website

### **Evidence of success**

Our success is now visible as number of complaints received is very little. Moreover, the money saved is utilized in development related works.

**Best practice 3****Title of the Practice**

To provide self-earning and self-learning opportunities to local people from backward background.

**Objective of the practice**

The locality surrounding the university consists mostly of bright, educated and enriched people on one side while illiterate, jobless, and immigrants struggling for life on the other side of the coin. The university has undertaken several programmes to bring some smile in the face of people belonging to the second category through rich activities of our well established Adult and Continuing Education Department and NSS centre. Some of these are:

- (i) To extend expertise to local needy people providing self-earning opportunity through training programme
- (ii) Providing basic computer literacy to nearly illiterate people
- (iii) Educating tribal and related 'son-of-the soil' inhabitants of the region on health, hygiene and sanitation issues

**The practice**

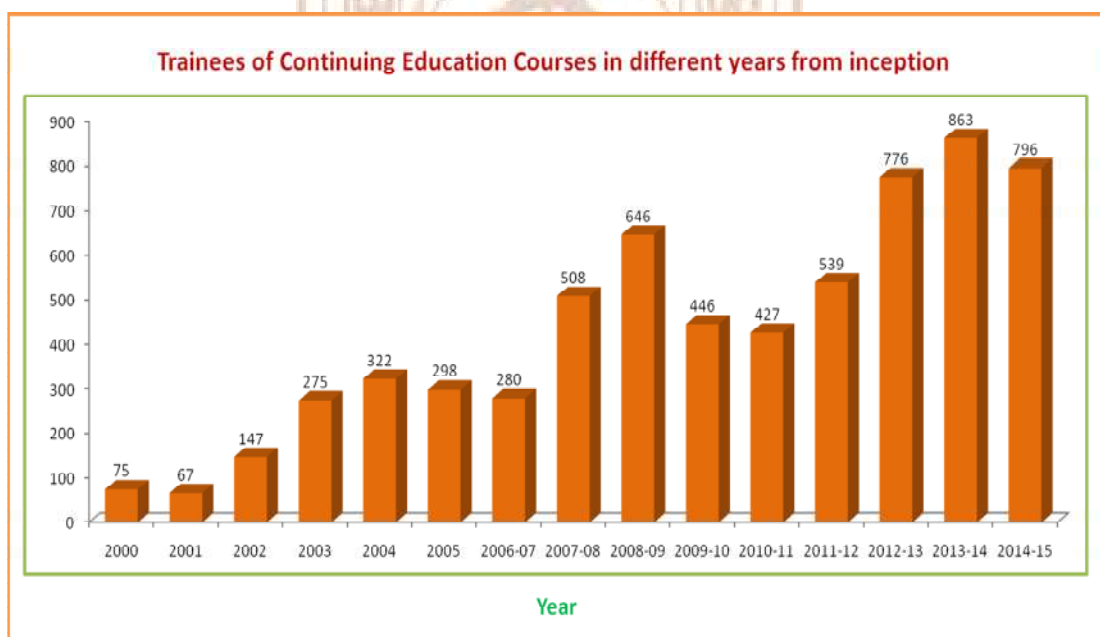
The practices are included in the following table.

Sl No.	Name of courses	Minimum qualification	Fees	Duration	Intake
1.	Fishery Management cum Fish Breeding	Class-VIII	800	4 weeks	30
2.	Ornamental Fish Culture	Class-VIII	600	4 weeks	30
3.	Primary Health Care & Social Service	Madhyamik	1,200	4 weeks	30
4.	Vermicompost Production	Literate	400	1 week	40
5.	Mushroom Cultivation	Literate	400	1 week	40
6.	Agri - Horticulture	Class-VIII	3,000	24 weeks	30
7.	Environment Quality Assessment & Monitoring	H.S.(Science)	2,500	12 weeks	15
8.	Mushroom Spawn Production & Cultivation	Madhyamik	1,200	4 weeks	10
9.	Computer Typing & Internet Operation	Class-VIII	400	2 weeks	12
10.	MS-Office & Internet	Madhyamik	1,000	12 weeks	24
11.	Desk Top Publishing	Madhyamik	1,000	12 weeks	24
12.	Computer Fundamental with Internet & Foxpro	Class-IX	1,000	12 weeks	15
13.	Fundamentals of Programming with C++ Language & Visual Basic	H.S. (Math) or H.S. with Basic Computer Knowledge	2,000	16 weeks	15
14.	Computer Fundamentals, Programming In C & Visual Foxpro	Madhyamik	2,500	6 months	15
15.	Motor & Small Rating Transformer Winding & Servicing	Madhyamik	4,000	6 months	40
16.	Computer Hardware & Networking	Madhyamik	5,000	6 months	30
17.	Basic Electronics	Madhyamik	2,500	2 months	20
18.	Fitting	Class-VIII	3,000	6 months	12
19.	Machining	Class-VIII	3,000	6 months	12
20.	Welding	Class-VIII	3,500	6 months	20
21.	Sheetmetal Forging & Foundry Practices	Class-VIII	2,000	6 months	12
22.	Wood Work and Modern Designing	Class-VIII	2,000	6 months	12
23.	Two-Wheeler Repairing & Maintenance	Class-VIII	4,000	6 months	12

Sl No.	Name of courses	Minimum qualification	Fees	Duration	Intake
24.	Four-Wheeler Repairing & Maintenance	Class-VIII	4,000	6 months	12
25.	Refrigerator & Air-conditioner Repair & Maintenance	Class-VIII	4,000	6 months	12
26.	MIG Welding	Madhyamik	2,000	6 weeks	12
27.	Core & Advanced Java Programming	Madhyamik (with Computer knowledge)	2,500	12 weeks	30
28.	Database Management System & Oracle	Madhyamik (with Computer knowledge)	2,500	12 weeks	30
29.	Plumbing	Class-VIII	2,500	6 months	20
30.	Electrical Wiring	Class-VIII	2,500	6 months	20
31.	Managership of Civil Constructions	H.S.	7,000	12 months	40
32.	Wet Cell Battery & Inverter Making & Maintenance	Class-VIII	2,500	6 months	20
33.	Communicative English	H.S.	1,500	3 months	20
34.	TIG Welding	Class-VIII	5,000	3 months	20
35.	Food Processing	Class-VIII	1,750	2 weeks	20
36.	Gardening	Class-VIII.	1,750	1 month	20
37.	Azolla Cultivation	Literate	250	1 week	15

### Evidence of success

We do not feel complacent of our success but would like to place our achievements graphically as follows. Our target is to increase the numbers in the coming years.





The logo of Kalyani University is a square emblem. At the top, it says 'KALYANI' and at the bottom, 'UNIVERSITY'. The center features a stylized 'U' with a book and a torch, flanked by two palm trees. The entire emblem is enclosed in a decorative border.

# **DEPARTMENT OF ADULT, CONTINUING EDUCATION AND EXTENSION**





1. **Name of the Department** : Department of Adult, Continuing Education and Extension
2. **Year of establishment** : 1986
3. **Is the Department part of a School/Faculty of the University :**  
The Department is a part of Faculty of Arts and Commerce of the University.
4. **Names of programmes offered**
  - a) (UG, PG, M.Phil., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :
    - MA in Adult Education and Extension (from the session 2015-16)
    - Ph. D Programme
  - b) • **Continuing Education courses :**

Sl No.	Certificate courses	Eligibility	Duration
1.	Fishery Management cum Fish Breeding	Class-VIII	4 weeks
2.	Ornamental Fish Culture	Class-VIII	4 weeks
3.	Primary Health Care & Social Service	Madhyamik	4 weeks
4.	Vermicompost Production	Literate	1 week
5.	Mushroom Cultivation	Literate	1 week
6.	Agri - Horticulture	Class-VIII	24 weeks
7.	Environment Quality Assessment & Monitoring	H.S.(Science)	12 weeks
8.	Mushroom Spawn Production & Cultivation	Madhyamik	4 weeks
9.	Computer Typing & Internet Operation	Class-VIII	2 weeks
10.	MS-Office & Internet	Madhyamik	12 weeks
11.	Desk Top Publishing	Madhyamik	12 weeks
12.	Computer Fundamental with Internet & Foxpro	Class-IX	12 weeks
13.	Fundamentals of Programming with C++ Language & Visual Basic	H.S. (Math) or H.S. with Basic Computer Knowledge	16 weeks
14.	Computer Fundamentals, Programming In C & Visual Foxpro	Madhyamik	6 months
15.	Motor & Small Rating Transformer Winding & Servicing	Madhyamik	6 months
16.	Computer Hardware & Networking	Madhyamik	6 months
17.	Basic Electronics	Madhyamik	2 months
18.	Fitting	Class-VIII	6 months
19.	Machining	Class-VIII	6 months
20.	Welding	Class-VIII	6 months
21.	Sheetmetal Forging & Foundry Practices	Class-VIII	6 months
22.	Wood Work and Modern Designing	Class-VIII	6 months
23.	Two-Wheeler Repairing & Maintenance	Class-VIII	6 months
24.	Four-Wheeler Repairing & Maintenance	Class-VIII	6 months
25.	Refrigerator & Air-conditioner Repair & Maintenance	Class-VIII	6 months
26.	MIG Welding	Madhyamik	6 weeks
27.	Core & Advanced Java Programming	Madhyamik (with Computer knowledge)	12 weeks
28.	Database Management System & Oracle	Madhyamik (with Computer knowledge)	12 weeks
29.	Plumbing	Class-VIII	6 months
30.	Electrical Wiring	Class-VIII	6 months
31.	Managership of Civil Constructions	H.S.	12 months
32.	Wet Cell Battery & Inverter Making & Maintenance	Class-VIII	6 months

Sl No.	Certificate courses	Eligibility	Duration
33.	Communicative English	H.S.	3 months
34.	TIG Welding	Class-VIII	3 months
35.	Food Processing	Class-VIII	2 weeks
36.	Gardening	Class-VIII.	1 month
37.	Azolla Cultivation	Literate	1 week

### 5. Interdisciplinary programmes and departments involved :

Sl No.	Programmes	Departments
1.	Fishery Management cum Fish Breeding	Deptt. of Zoology Kalyani University
2.	Ornamental Fish Culture	Deptt. of Zoology Kalyani University
3.	Vermicompost Production	Deptt. of Botany
4.	Mushroom Cultivation	Deptt. of Botany
5.	Agri-Horticulture	Deptt. of Botany
6.	Primary Health Care & Social Service	Kalyani University Health Centre
7.	Computer Hardware & Networking	Deptt. of Computer Science and Engineering; Department of Engineering and Technological Studies (DETS)
8.	MS- Office and Internet	Do
9.	Desk Top Publishing	
10.	Computer Fundamentals with Internet and Foxpro	
11.	Fundamentals of Programming with C++ Language & Visual Basic	
12.	Computer Fundamentals, Programming In C & Visual Foxpro	

### 6. Courses in collaboration with other universities, industries, foreign institutions, etc. : Nil

### 7. Details of programmes discontinued, if any, with reasons :

- P.G. Diploma in Adult Education has been discontinued due to introduction of MA in Adult Education and Extension from 2015-16 session.

### 8. Examination System : Annual/Semester/Trimester/Choice Based Credit System :

- Examination System : Semester and Choice Based Credit System.

### 9. Participation of the department in the courses offered by other departments : ● Nil

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/Others) :

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	--	01	By CAS
Associate Professors	--	--	
Asst. Professors	--	--	
Others	--	--	

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. Niladri Biswas	M.A. Ph. D	Professor	Theory & Practice of Adult Education and Non-formal Education(NFE) :	28	One scholar has been started Ph.D Programme from 2015.

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :**

**Adjunct Faculty :**

- Dr. Ratneswar Bhattacharjee - Ex- Director, Department of Adult, Continuing Education and Extension, Kalyani University, • Prof. Sanat Ghosh - Former Professor, Deptt. of Education & Ex-Co-coordinator of Department of Adult, Continuing Education and Extension, Rabindra Bharati University, West Bengal.
- Prof. Tandra Mitra - Professor, Department of Adult, Continuing Education and Extension, Jadavpur University, West Bengal

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

Course name	Percentage
• One year P.G. Diploma in Adult Education	: 45%
• Continuing Education courses	: 95%
• MA in Adult Education and Extension	: --

**14. Programme – wise student Teacher Ratio :**

Course name	Percentage
• One year P.G. Diploma in Adult Education	: 20:1
• Continuing Education courses	: 20:1 to 30:1
• MA in Adult Education and Extension	: 15:1

**15. Number of academic support staff (technical) and administrative staff :**

• Sanctioned	-	Nil
• Filled	-	--
• Actual	-	One temporary academic support staff (Technical) for P.G. Diploma in Adult Education course; Continuing Education courses and MA in Adult Education and Extension and field Outreach activities. One temporary administrative staff for accounts.

**16. Research thrust areas as recognized by major funding agencies : • Nil**

**17. Number of faculty with ongoing projects from a) National b) International funding agencies and c) Total grants received.**

**Give the names of the funding agencies, project title and grants received project-wise:**

- a) National : • Nil
- b) International funding agencies : • Nil
- c) Total grants received : • Nil

**18. Inter-institutional collaborative projects and associated grants received : • Nil**

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.:**

- The Department of Science and Technology, Govt. of West Bengal sanctioned Training Programmes on Transfer of Technology of Low-Cost Eco-friendly training Technology'. An amount of sanctioned Rupees 5,00,000/- was received. The Project completed in the year 2014.
- Received Rupees five lakhs (Rs. 5,00,000/-) from University for Outreach and Extension Activities out of the UGC XII Plan Grants, sanctioned to University.

**20. Research facility / centre with : • Nil.**

**21. Special research laboratories sponsored by / created by industry or corporate bodies:**

- Not Available.

**22. Publications :**

- \* Number of papers published in peer reviewed journals (national / international) : • Nil
- \* Monographs : • 15
- \* Chapters in Books : • Nil
- \* Edited Books : • 03
- \* Books with ISBN with details of publishers : • Nil
- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host etc.) : • Nil
- \* Citation Index – range / average : • Nil
- \* h-index : • Nil

**23. Details of patents and income generated : • Nil**

**24. Areas of consultancy and income generated : • Nil**

**25. Faculty selected nationally /internationally to visit other laboratories/institutions/industries in India and abroad :**

- Dr. Niladri Biswas, Head of this Department visited in series of Mobile Workshops and visited other two cities of Bangladesh to learn and share experiences of field level activities From December 31, 2012 to January, 2013 . The programme was organized by Save the Children, USA.,( Bangladesh) and CAMPE (Bangladesh) and.
- Dr. Niladri Biswas was invited by UNESCO Dhaka to present a paper in the National workshop on “Sharing result/findings of piloting systematic NFE Delivery Mechanism”, jointly organized by BNFE (Bureau of Non-formal Education : Government of Bangladesh).
- Dr. Niladri Biswas was invited to strengthen a supporting system of Non-formal Education and Research cell of Begum Rokeya University . With this connection a Workshop on Sharing Experience and Strengthening Capacity of NFE and Research Cell of Begum Rokeya University was held in August 2014 at Begum Rokeya Auditorium, RDRS Bangladesh, Rangpur. BNFE where Dr Biswas presented his lecture.

- Dr. Niladri Biswas, was invited by Florida State University, USA to participate the “Community College Administrator Program with India” - a six-week program (18 September to 31 October 2015) of study for Indian officials with higher education planning responsibilities and administrators from post-secondary vocational and technical institutions in India. The programme was sponsored by the U.S. Department of State’s Bureau of Educational and Cultural Affairs and implemented by the Florida State University and Santa Fe College.

**26. Faculty serving in :**

a) National committees b) International committees c) Editorial Boards d) any other :

Any other :

- Bio-genomics advisory committee member
- Member of Ethics Committee of National Institute of Bio-medical Genomics, Kalyani from 2009.
- Member of Board of Studies of B.Ed in special Education, Rabindra Bharati University.
- Member of Advisory Committee of Rabindra Adhyan Kendra, Kalyani University.

**27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs) :**

• Nil

**28. Student projects :**

• Nil

**29. Awards/recognitions received at the national and international level by :**

- ☐ Faculty : • Dr. Niladri Biswas received honorary membership of Association of Alumni and Friends Santa Fe College, Florida, USA on 15 October 2015
- ☐ Doctoral/post doctoral fellows :
- ☐ Students

**30. Seminars/Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any :**

Sl. No.	Title of the paper presented	Participants	Whether International/National/State/Regional/College or University level	Funding agencies
1.	Seminar on “Community Outreach programme as visualized by Kalyani University” –jointly organized with Ramakrishna Mission Bramhananda College of Education, Rahara, Kolkata on 10-11 September 2013	Choten Lama, Secretary School Education, Govt. of West Bengal	National	UGC
2.	Seminar on “Sharing Best Practices of Adult Education” -an innovative programme for new adult learners: 10-12 August 2011	Representation from Dhaka, Bangladesh	Regional	UGC
3.	Organized Seminar on “Identification of Replicable innovative Income Generating Programmes for the rural SHGs, at Kalyani University on 22-23 March 2013	Twenty two self-help group members of Nadia; North and South 24 Parganas and Murshidabad Districts.	Regional	UGC
4.	Conducted ten workshops for identification, translation and editing the German Book on Learning Games “Lust auf Bewegung’ at the Department on	Dr. Ratneswar Bhattacharjee. Ex-Director of the Adult Education Department; Sasabindu Choudhury- the German translator and the	Local	Own generation fund

Sl. No.	Title of the paper presented	Participants	Whether International/National/State/Regional/College or University level	Funding agencies
	between 29.03.2010 and 14.06.2010.	students of Adult Education Department.		
5.	Organized Workshop on : How to combat HIV/AIDS : What University and Colleges should do”, organized by the Department on January 18, 2011.	College teachers	District	Own fund
6.	Organized Workshops on “Status of Elementary Education in Nadia and Adjacent District” in two phases on 16.02.2011 and 05.03.2011	School teachers	District	Own generation fund
7.	Organized Training on Transfer of Technology of Low-cost Eco-friendly building Technology on 9-10 November 2013; 16-17 November 2013; 14-15 December 2013; 28-29 December 2013, 10-11 January 2014; 01-02 March 2014; 06-07 March 2014; 08-09 March 2014; 13-14 March 2014; 17-18 March 2014 and 29-30 March 2014 sponsored by Department of Science and Technology, Govt. of West Bengal.	Masons; Engineer; Nirman Sahayak; SAE; Ex-PWD Executive Engineer; Ex-Assistant Engineer	State	Deptt. of Science and Technology; Govt. of W. Bengal
8..	Organized National Seminar on ‘Rabindranath : Rural Empowerment & Rural Reconstruction, jointly organized by Rabindra Adhyan Kendra and Department of Adult, Continuing Education and Extension on 10-11 March 2014	Prof. Binoy Mahatma; Prof. Mukul Bandhopadhyay; Prof. Biswanath Roy; Dr. Ratneswar Bhattacharjee	National	UGC
9.	Rabindra Studies Centre and Deptt. of Adult, Continuing Education and Extension jointly organized a National Seminar on ‘Tagore’s Plays in Indian Languages” at Vidyasagar Sabhagriha on 29 August 2014.	Professor Debendra Raj Ankur, Ex-Director, National School of Drama, New Delhi	National	UGC
10.	Organize one day Seminar with invited speakers on Educationist Satyen Moitra: look back with the help of Satyen Moitra Jana Shiksha Samity on 5 June 2015	Prof. Rattan Lal Hangloo, former Vice-Chancellor; Dr. Ratenswar Bhattacharjee-Ex Director, Adult Education Department.	State	Own generation fund
11.	Organized a Seminar on Child Rights on 13 August 2015	Prof. Rattan Lal Hangloo, former Vice-Chancellor; Asokendu Sengupta, Chairman, West Bengal Commission for Protection for Child Rights; Prof. Moloyendu Saha, Chairman, West Bengal Higher Education Council; Dr. Ratenswar Bhattacharjee-Ex	State	University

Sl. No.	Title of the paper presented	Participants	Whether International/National/State/Regional/College or University level	Funding agencies
		Director, Adult Education Department, Kalyani University.		

**31. Code of ethics for research followed by the departments :** • As per university guidelines

**32. Student profile programme-wise :**

Name of the programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
P.G. Diploma in Adult Education	180	41	55	38%	45%
Ph.D Programme	08	07	01	--	--
MA in Adult Education	18	01	05	--	--
Continuing Education Courses	3847	1441	2406	77%	98%

**33. Diversity of students :**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
P.G. Diploma in Adult Education	97%	2%	--	1%
Ph.D Programme	100%	--	--	--
MA in Adult Education	100%	--	--	--
Continuing Education Courses	6%	92	2%	--

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: • 03**

Civil Service – 01

NET – 02

**35. Student progression :**

Student progression	Percentage against enrolled
UG to PG	Not applicable
PG to M.Phil.	1%
PG to Ph.D.	1%
Ph.D to Post-Doctoral	Nil
Employed	
□ Campus selection	
□ Other than campus recruitment	8-10%
Entrepreneurs	20%

**36. Diversity of staff :**

Percentage of faculty who are graduates	
of the same university	100%
From other universities within the State	
From universities from other States from	
Universities outside the country	



**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :**

- One (Dr. Niladri Biswas, Head, Department of Adult, Continuing Education and Extension)

**38. Present details of departmental infrastructural facilities with regard to -**

- |   |   |                                     |
|---|---|-------------------------------------|
| a) Library                                    | : | • Departmental Library              |
| b) Internet facilities for staff and students | : | • Available for students and staffs |
| c) Total number of class rooms                | : | • Five                              |
| d) Class rooms with ICT facility              | : | • Four                              |
| e) Students' laboratories                     | : | • One Computer Laboratory.          |
| f) Research laboratories                      | : | • Not Available                     |

**39. List of doctoral, post-doctoral students and Research Associates -**

- |   |   |       |
|---|---|-------|
| a) from the host institution/university : | : | • Nil |
| b) from other institutions/universities : | : | • Nil |

**40. Number of post graduate students getting financial assistance from the university :**

- 18 (P.G. Diploma in Adult Education course)

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

The Department continuously taking feedback from the trainees and modify its different courses and also undertake new courses.

**42. Does the department obtain feedback form**

- At the end of every Continuing Education courses the students fill up feedback form without putting their name. The Department gives importance to the opinion of the trainees and modify the course curriculum, add new courses etc.

**43. List the distinguished alumni of the department (maximum 10)**

- Sagar Bhattacharya, Deborshi Mukhopadhyay, Manashi Debnath, Mihir Kumar Mondal, Debayoni Mitra, Pintu Tarafder, Mithu Khatun, Mukhlesur Rahman Gain

**44. Give details of student enrichment programmes (special lectures/workshops/seminar) involving external experts.**

- The Department invites distinguished personalities working in the field of Adult, Continuing Education and Extension and Field Outreach Activities.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Audio-Visual, Field Demonstration, Practical Classes, Class Lectures .

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored ?**

- By constant interaction with the students and experts.

**47. Highlight the participation of students and faculty in extension activities.**

- Actually Teaching in the discipline and Extension programme are the equally important part of our Department of Adult, Continuing Education and Extension. This Department conducting the following activities :

- ☞ Community Learning Centres and Outreach Projects for disadvantaged groups
- ☞ Door-step Library project.
- ☞ Krishi Pathshala (for cultivators).
- ☞ Training Programme of other organization .
- ☞ Post Graduate Diploma in Adult Education (Upgraded to Master's from this year)
- ☞ MA in Adult Education and Extension (from 2015-16 sessions)
- ☞ Continuing Education Courses
- ☞ Community-based continuing Education courses.
- ☞ Ph.D Programme on problems related to Community education

All the above programmes are getting equal importance. The faculty member shoulder day to day responsibilities to materialize these programmes in the field level. Students are involved with extension programmes of the Department as a part of their course of study.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Continuing Education Courses at University and NGO level delivered in Three Districts.
- Community-based Continuing Education courses
- Outreach and Extension programmes
- Consultancy at National and International level.

**49. State whether the programme/department is accredited/graded by other agencies? If yes, give details :**

- UNESCO sent a team (2013) comprised of Govt. and NGO representatives of Bangladesh. They invited us to Bangladesh to start similar Departments there.
- Our Extension and Outreach programmes was acclaimed by Helan Lafave, US Consul General in the year 2014.
- Large number NGOs in West Bengal always writing to us regularly for Training and Evaluation support as they consider us as a Resource Centre of Community Education.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Planning and execution of Continuing Education courses through University system.
- Framing of new innovative literacy intervention.
- Low-cost appropriate materials for community education.
- Resource on Multiple Trainings for field-level projects.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths :**

- Continuing Education courses covering multiple fields ; • Innovative large Outreach Programmes; • Network with NGOs at Local, State, National and International level;
- Network with National and International Universities and International bodies; • Low cost Literacy and Post literacy materials

**Weakness :**

- Shortage of teaching and supporting/ Technical staff; •Lack of space (classroom etc.) for Continuing Education Courses; •Fund constrains after cessation of UGC's grants.

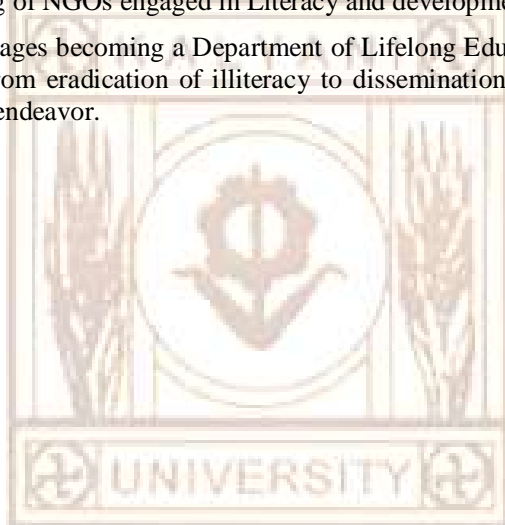
**Opportunities :**

- Needs of the area as the University is surrounded by vast rural areas and Worker's habitations;
- Learning needs Pockets of illiterate groups in villages mainly STs;
- Helpful faculties of the University;
- Medical College; Engineering College and their willingness to participate;
- Huge number of Women Self-Help Groups of looking for marketable skills.

## 52. Future plans of the department.:

- To set up a Training Workshop for providing Training on marketable Income generating skills for Women members of SHGs.
- Innovating Community Outreach project for vulnerable groups in identified areas.
- Workshop for Capacity Building of NGOs engaged in Literacy and development projects.
- Extension and Outreach programmes through the Colleges affiliated to the University to serve the need of the local areas.
- More Continuing Education courses for skill development of the youths and enhance their employability, specially for the underprivileged.
- Capacity Building of NGOs engaged in Literacy and development projects.

The Department envisages becoming a Department of Lifelong Education covering the entire gamut of education from eradication of illiteracy to dissemination of highest knowledge in any branch of human endeavor.



# DEPARTMENT OF BENGALI



1. **Name of the Department** : Bengali
2. **Year of establishment** : 1971
3. **Is the Department part of a School/Faculty of the university?** : School of Arts and Humanities
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : UG, PG, M.Phil, Ph.D, D.Litt
5. **Interdisciplinary programmes and departments involved** : National Seminar in Collaboration with Rabindra Study Centre and Deptt. of Adult Education
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : NIL
7. **Details of programmes discontinued, if any, with reasons** : N.A.
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Semester
9. **Participation of the department in the courses offered by other departments** : Nil
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	4	4
Associate Professors	4	1+1	2
Assistant Professors	8	1	1
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Keka Ghatak	M.A., Ph.D.	Professor	Modern Bengali Poetry, Novel and Short Story	36	M.Phil Awarded -2 Ph.D Guided -7 Ph.D Awarded-5
Dr. Tapas Basu	M.A., Ph.D., D.Litt (Double)	Professor	Drama, 19 <sup>th</sup> Century History & Literature, Medieval period	31	M.Phil Awarded -4 Ph.D Guided -16 Ph.D Awarded - 13
Dr. Sabitri Nanda Chakraborty	M.A., Ph.D.	Professor	Fiction of Twentieth Century, Rabindra Sahitya	20	M.Phil Awarded -4 Ph.D Guided -9 Ph.D Awarded - 3
Dr. Sukhen Biswas	M.A., Ph.D., D.Litt.	Professor	Linguistic, Literature of Satyajit Roy	17	M.Phil Awarded -3 Ph.D Guided -12 Ph.D Awarded -4
Dr. Nandini	M.A., Ph.D.,	Associate	Rabindra	15	M.Phil Awarded -5

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Banerjee	D.Litt.	Professor	Literature, Linguistics, Nineteenth Century's Bengali Literature, Folklore		Ph.D Guided -10 Ph.D Awarded – 2
Dr. Prabir Pramanick	M.A., Ph.D	Associate Professor	Drama and Lokodharma	14	M.Phil Awarded -7 Ph.D Guided -14 Ph.D Awarded – 10
Dr. Tusar Potua	M.A., Ph.D.	Assistant Professor	Medieval Bengali Literature, Fiction	3	M.Phil Awarded -3 Ph.D Guided -5 Ph.D Awarded – NIL

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors :** Nil
13. **Percentage of classes taken by temporary faculty – programme-wise information :** N.A.
14. **Programme-wise Student Teacher Ratio:** M.A.- 200:7, M.Phil. – 20:7, Ph.D.-8:1
15. **Number of academic support staff (technical) and administrative staff :** sanctioned, filled and actual: Record Keeper – 1, Casual – 2
16. **Research thrust areas as recognized by major funding agencies:** N.A.
17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. :** NIL
18. **Inter-institutional collaborative projects and associated grants received :** NIL  
a) National collaboration                      b) International collaboration
19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :** Nil
20. **Research facility / centre with :** N.A.  
• state recognition; national recognition ; international recognition
21. **Special research laboratories sponsored by / created by industry or corporate bodies :** N.A.
22. **Publications:**
  - ☐ Number of papers published in peer reviewed journals (national / international) : 7 (with ISSN) + 21 (without ISSN)= Total 28 (All Teachers) (Separate Sheet attached)
  - ☐ Monographs
  - ☐ Chapters in Books : 19 (with ISBN) + 5 (without ISBN) = Total 24 (All Teachers) (Separate Sheet attached)
  - ☐ Edited Books : 3 (Separate Sheet attached)
  - ☐ Books with ISBN with details of publishers , 15 books published (listed separately)
  - ☐ Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences

Directory, EBSCO host, etc.)

- ☐ Citation Index – range / average
- ☐ SNIP
- ☐ SJR
- ☐ Impact Factor – range / average
- ☐ h-index

**23. Details of patents and income generated : N.A.**

**24. Areas of consultancy and income generated : N.A.**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :** Prof. Sukhen Biswas served as visiting professor in Tripura University, 2012, Guest Faculty in Rabindra Bharati University, 2010-13

**26. Faculty serving in: Editorial Board** – Professor Keka Ghatak, Professor Tapas Basu, Professor Sabitri Nanda Chakraborty, Professor Sukhen Biswas, Dr. Nandini Banerjee, Dr. Prabir Pramanick, Dr. Tusar Potua

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).** : Resource Person in Refresher

Course-3, Training-1, Orientation-1

**28. Student projects : N.A.**

- percentage of students who have done in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities industry / institute

**29. Awards / recognitions received at the national and international level by : NIL**

- Faculty; Doctoral / post doctoral fellows ; Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

Sl. No.	Name of Seminar / Workshop	Sponsor	Date
1.	“Srichitanya O Jatio Sanghoti”	National Seminar, UGC	27 <sup>th</sup> 28 <sup>th</sup> March, 2012
2.	“Dwijendralal : 150 Udayan”	National Seminar, UGC	2 <sup>nd</sup> & 3 <sup>rd</sup> March, 2013
2.	“Bankimchandra Ekobingso Sotabdir Bhabna”	International Seminar, UGC	27 <sup>th</sup> & 28 <sup>th</sup> March 2014
3.	“Tarasankar : Jiban O Kriti”	National Seminar, UGC	4 <sup>th</sup> August, 2014

**31. Code of ethics for research followed by the departments :** Innovation of Social, Culture & Literary aspect with originality

**32. Student profile programme-wise:**

Number of students who applied for admission in different courses in current academic year-900 (App.)

Number of students who got admission in different courses in current academic year 200 (App.)

Number of students at present in different course 450 (App.)

Total pass % of final year students for different courses in the last academic year 99%



**No. of Students with reservations :**

Number of Students (Men / Women) give details course-wise :							M.A. – 2 <sup>nd</sup> Semester Female – 113, Male – 80 4 <sup>th</sup> Semester Female – 122, Male - 61		
Course	Men	Women	SC	ST	OBC (A)	OBC (B)	PH	Minority	General
M.A. 2 <sup>nd</sup> Sem.	80	113	62	6	29		-	-	96
M.A. 4 <sup>th</sup> Sem.	61	122	57	6	33		2	-	85
M.Phil	8	10	7	1	-		-	2	8
Ph.D. (full-time scholars)	6	7	8	-	-		-	-	5
Ph.D. (part-time scholars)	24	25	22	-	1	3	-	-	16

**33. Diversity of Students :**

Course	Year	% of students from the same university		% of students from other university within state		% of students from universities outside the states		% of students from other countries	
		M	F	M	F	M	F	M	F
M.A. 1 <sup>st</sup> Sem.	2014	20	40	12	28				

**Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.A.	60%	40%	N.A	N.A
M.Phil.	75%	25%	N.A	N.A
Ph.D.	50%	50%	N.A	N.A

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : Information not available****35. Student progression**

Student progression		Percentage against enrolled
UG to PG		N.A.
PG to M.Phil.		5%
PG to Ph.D.		10%
Ph.D. to Post-Doctoral		
Employed		
<input type="checkbox"/>	Campus selection	
<input type="checkbox"/>	Other than campus recruitment	YES
Entrepreneurs		

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	45%
from other universities within the State	55%
from universities from other States	Nil
from universities outside the country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Ph.D- 1, D.Litt-1****38. Present details of departmental infrastructural facilities with regard to**

- Library : The Department had a library until 2014 which is now shifted to the Central Library
- Internet facilities for staff and students : Internet facilities only for Teachers
- Total number of class rooms : 5
- Class rooms with ICT facility : NIL
- Students' laboratories : N.A.
- Research laboratories : N.A.

**39. List of doctoral, post-doctoral students and Research Associates : Separate Sheet Attached**

- from the host institution/university ; b) from other institutions/universities

**40. Number of post graduate students getting financial assistance from the university. : 5%****41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :Yes, through self-assessment, discussion****42. Does the department obtain feedback from :**

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? The feedback is taken into the consideration of developing curriculum and teaching-learning method.
- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Through faculty evaluation questionnaire and verbal discussions.
- alumni and employers on the programmes offered and how does the department utilize the feedback? Through verbal discussions.

**43. List the distinguished alumni of the department (maximum 10) :**

Serial No.	Name	Year of Passing	Position held
1.	Ramen Biswas		Present MLA
2.	Uttpal Mondal		Associated Professor, N.B.U.
3.	Rita Modak		Associated Professor, Viswas Bharati
4.	Narayan Halder		Assistant Professor, Rabindra Bharati University
5.	Biplab Biswas		Assistant Professor, Viswas Bharati
6.	Sujit Pal		Assistant Professor, Viswas Bharati
7.	Tapan Kumar Biswas		Professor, Department of Folklore, University of Kalyani
8.	Sukhen Biswas		Professor, Department of Bengali, University of Kalyani

Serial No.	Name	Year of Passing	Position held
9.	Nandini Banerjee		HOD & Associate Professor, Department of Bengali, University of Kalyani
10.	Prabir Pramanick		Associate Professor, Department of Bengali, University of Kalyani

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :**

A) Special Lectures – 12 (Twelve) On Drama Application , B) Seminars - 10 (Ten); C) Work Shops – 2 (Two); D) Series of Academic Seminars - 12

**45. List the teaching methods adopted by the faculty for different programmes. : Nil**

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? :**

**47. Highlight the participation of students and faculty in extension activities.**

- A) Cent percent students have participated in the different programme of N.S.S.
- B) Selected students have participated All India University Cultural meet held at
- C) Selected students have participated Eastern India University Cultural meet held at University of Kalyani, Kalyani, Nadia
- D) Selected students have participated UGC sponsored National Seminar in different college & university of West Bengal and other state. etc.

**48. Give details of “beyond syllabus scholarly activities” of the department.: Always we entertain discussion beyond class.**

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.: N.A.**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. : N.A.**

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

A) Major Strength

- 1) Departmental Journal with ISSN published wildly.
- 2) No. of Research Scholars & awarded huge nos. of Ph.D. degree.
- 3) Qualified & joined of the department in the college & university service through proper interview appx. No. 30 (Thirty).
- 4) The students of the deptt. Qualified & Joined in the school services through proper interview approx – 50 (Fifty).
- 5) Approx – 60 students appeared & qualified in the NET & SET exam. Org. by UGC & CSC, W.B.

B) Major 5 (Five) Weakness

- 1) No open air theatre & stage for different programme & practical classes of the students of Drama & Rabindra special group.
- 2) Vacant posts should be filled-up.
- 3) Language laboratory to be introduced.
- 4) No departmental Library & Reading Room.
- 5) New professional courses to be introduced .

6) No separate Room for Sr. Professors. So confidential work & discussion with scholars & visitors are disturbed.

C) Major 3 (Three) Opportunity

- 1) Open beautiful green space with plants, garden.
- 2) Environment & ecological balance is well.
- 3) Good & academically sound teachers of the department.

D) Major 5 (Five) Challenges

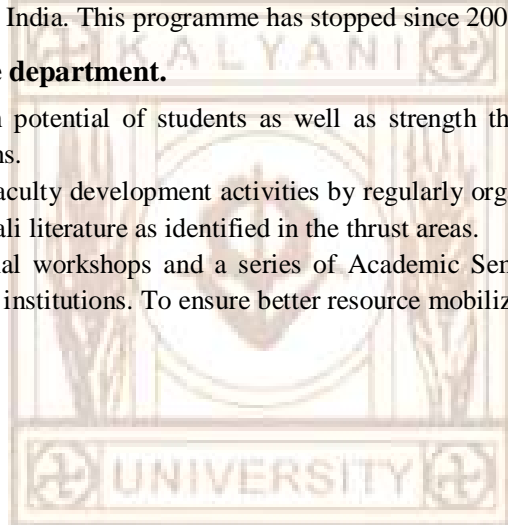
- 1) First generation learners are expected to be taught more scientifically.
- 2) Students will be properly groomed for not only academically good but good human being also.
- 3) Implement of the man making & job oriented education.
- 4) Clean maintain the area of the deptt. regularly conduct the introduce.
- 5) New syllabus competed with tradition & modern context.

**Future plans of the department (Major Five)**

- 1) Conduct short term professional & Job oriented course.
- 2) Conduct inter-university students & Teachers exchange programme for prosperity arrangement.
- 3) Seminar & work shop for National International & Commence harmony
- 4) Excursion for incredible India. This programme has stopped since 2003.

**52. Future plans of the department.**

- a) To nurture the research potential of students as well as strength then their ability to qualify in competitive examinations.
- b) To contribute towards faculty development activities by regularly organizing Refresher Courses on various aspects of Bengali literature as identified in the thrust areas.
- c) To organize International workshops and a series of Academic Seminars and facilitate research collaboration with other institutions. To ensure better resource mobilization by opting for externally funded projects.



The logo of Kalyani University is a square emblem. At the top, a horizontal band contains the word 'KALYANI' in capital letters, flanked by two circular symbols containing a stylized cross. The center of the emblem features a shield with a crown on top, set against a background of two palm trees. At the bottom, another horizontal band contains the word 'UNIVERSITY' in capital letters, also flanked by the same circular symbols.

## DEPARTMENT OF BIO- CHEMISTRY AND BIO-PHYISCS

1. **Name of the Department** : Department of Biochemistry and Biophysics
2. **Year of establishment** : 1979
3. **Is the Department part of a School/Faculty of the university?** Faculty of Science
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : PG, Ph.d, D.Sc.
5. **Interdisciplinary programmes and departments involved** : No such programme
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** : No such course
7. **Details of programmes discontinued, if any, with reasons** : No such instance
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System** : Semester / Choice based Credit System
9. **Participation of the department in the courses offered by other departments** :  
Some of the faculties regularly take part in teaching of the courses offered by the Departments of Microbiology and Molecular Biology & Biotechnology
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)** :

	Sanctioned	Filled	Actual (including CAS/MPS)
Professor	1	Vacant	5
Associate Professor	3	Nil	Nil
Assistant Professor	9	4	4
Others	-	-	-

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. / M.Phil. students guided for the last 4 years
Dr. Sajal Chakraborti	M.Sc., Ph.D., D.Sc.	Professor of Biochemistry	Molecular Physiol. & Cell Signalling	30 years	7 4 (awarded)
Dr. Tapan Kumar Das	M.Sc., Ph.D	Professor of Biochemistry	Microbial Biochem. , Fungal Genet. & Nanobiotechnol.	30 years	5 1 (awarded)
Dr. Tarakdas Basu	M.Sc., M. Phil., Ph.D	Professor of Biophysics	Mol. Biol. & Nanobiotechnol.	27 years	8 2 (awarded)
Dr. Rita Ghosh	M.Sc., Ph.D	Professor of Biophysics	Radiation Biology, Cell Biology	20 years	5 2 (awarded)
Dr. Tapati Chakraborti	M.Sc., Ph.D	Professor of Biochemistry	Immunology , Cell Biology	13 years	3
Dr. Alpana Seal	M.Sc., Ph.D	Professor in Biophysics	Crystallography, Molecular modelling	13 years	4 2 (awarded)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. / M.Phil. students guided for the last 4 years
Dr. Rakhi Dasgupta	M.Sc., Ph.D	Asst. Professor in Biophysics	Crystallography, protein folding	11 years	5 1 (awarded)
Dr. Angshuman Bagchi	M.Sc., Ph.D	Asst. Professor in Biochem.	Structural Bioinformatics	10 years	5
Dr. Utpal Ghosh	M.Sc., Ph.D	Asst. Professor in Biophysics	Cell Biol. & Biophysical Chem.	9 years	6 1 (awarded)
Dr. Jishu Naskar	M.Sc., Ph.D	Asst. Professor in Biochem. & Biophys.	Supramolecular chemistry	3 years	2

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

Dr. Tripti De, CSIR-Emeritus Scientist (2013-14)

**13. Percentage of classes taken by temporary faculty – programme-wise information**

No temporary faculty in the department

**14. Programme-wise Student Teacher Ratio**

M.Sc. Course in Biochemistry : 4: 1  
 M.Sc. Course in Biophysics : 4: 1  
 Ph.D. Course in Biochemistry : 0.8: 1 (present)  
 Ph.D. Course in Biophysics : 3.2: 1 (present)

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Category	Sanctioned	Filled	Actual
Technical staff	5	5	5
Administrative staff	3	3	3

**16. Research thrust areas as recognized by major funding agencies**

1. Cellular & Molecular Biology
2. Structural Biology & Bioinformatics
3. Nanobiotechnology

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Name of the Investigator	Title of the project	Amount sanctioned (Rs.)	Funding Agency	Duration
Prof. Tarakas Basu	4. In vitro and in vivo approaches to explore the mechanism of anti-bacterial activity of different	57.5 Lakhs	DST	2016-19



Name of the Investigator	Title of the project	Amount sanctioned (Rs.)	Funding Agency	Duration
	copper-based nano-particles, for developing potential drugs against bacterial diseases.			
	5. Roles of chaperone protein GroEL and outer membrane proteins OmpA/C on the entry of DNA in the CaCl <sub>2</sub> -mediated transformation process of E. coli with extraneous DNA.	13.262 Lakhs	UGC	2013 – 16
	6. Mechanism of calcium phosphate nanoparticles mediated DNA delivery in Escherichia coli cells.	97.44 Lakhs	DBT	2009 – 12
	7. Accumulation of membrane proteins in cell cytoplasm induces heat-shock response in Escherichia coli – to investigate the mechanism behind the phenomenon.	23 Lakhs	DST	2007-11
Prof. Tapati Chakraborti	8. Intracellular protozoan parasite metalloprotease(s) for leishmania donovani: Identification, purification, characterization and its biological significance in visceral leishmaniasis.	9.5 Lakhs	UGC	2009 – 12
	9. Studies on Leishmania donovani secretory serine protease in host-parasite interactions and immunomodulation of visceral leishmaniasis.	16Lakh	CSIR	2012 - 15
	10. Studies on naturally occurring serine protease inhibitor(s) from Coccinia grandis (L) Voigt in the modulation of host cell signaling and cellular invasion by Leishmania donovani.	24 Lakhs	DAE	2013 – 16
Dr. Rakhi Dasgupta	11. Structural studies of a few heat-shock proteins related to the DnaK chaperone system of E.coli by X-ray crystallography and molecular modeling.	40 lakhs	DST	2008-12
	12. Structural insight into the interactions of the heat shock	16.9lakhs	DBT	2013 – 16

Name of the Investigator	Title of the project	Amount sanctioned (Rs.)	Funding Agency	Duration
	proteins and heat shock transcription factor $\sigma^{32}$ in <i>E. coli</i> .”			
Dr. Angshuman Bagchi	13. Insight into human disease causing mutations in proteins by analyzing protein-protein interactions to identify the plausible causes of disease propagation.		DBT	2015 – 18
Dr. Utpal Ghosh	14. Combining PARP-1 inhibition with carbon ion treatment of chondrosarcoma: study of DNA repair pathways involving poly(ADP-ribosyl)ation.	EURO 50,000	PROJECT FONDATION ARC 2015, France	2015 – 17
	15. Investigation of DNA repair pathways and cross-talk between PARP-1 and p53 after carbon ion beam irradiation in cultured human cells.	11 Lakhs	IUAC	2015 – 18
	16. Induction of apoptosis by heavy ion beam in Human Cervical Epithelial Carcinoma (HeLa) cells in presence and absence of PARP inhibitor.	8 Lakhs	IUAC	2008 – 12
	17. Regulation of biogenesis of telomeric RNA (TERRA) and its role in telomere length maintenance. DBT, New Delhi	44.316 Lakhs	DBT	2013 – 16
	18. Functional characterization of interaction of poly(ADP-ribose)polymerase 1 (PARP-1) with telomere-binding proteins,	27.3 lakh	DST	2012 – 15
Dr. Jishu Naskar	19. Peptide based Biomaterials: Fabrication and Applications.	6.00 Lakh	UGC	2013 – 15

## 18. Inter-institutional collaborative projects and associated grants received

### a) National collaboration

Prof. T. Basu has collaboration with Dr. Naznin Ara Begum, Assistant Professor, Dept. of Chemistry, Visva Bharati in the DST (GOI) funded research project entitled –“To study the mechanism of antioxidant as well as DNA damage prevention activities of different natural occurring flavonoids and their synthetic derivatives” : Co-Investigator is Prof. Tarakdas Basu. [Project Cost: Rs.40.7 lakh and Tenure: 2012 - 15]

### b) International collaboration

Dr. Utpal Ghosh has collaboration with Dr. Francois Chevalier, Radiobiologist, CEA, CiMAP, GANIL, Caen, France in the PROJECT FONDATION ARC 2015, France funded research project entitled – “Combining PARP-1 inhibition with carbon ion treatment of chondrosarcoma:

study of DNA repair pathways involving poly(ADP-ribosyl)ation". Project cost: EUR 50,000 and Tenure: 2015 – 17.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

UGC / SAP (DRS)	(2011-16)	Rs.40.00 Lakhs
DST-FIST (2 <sup>nd</sup> term)	(2007-12)	Rs.99.00 Lakhs
DST-FIST (3 <sup>rd</sup> term)	(2015-20)	Rs.100.00 Lakhs

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Total: Rs.239 Lakhs

**20. Research facility / centre with**

- a. state recognition **No**  
 b. national recognition **DBT-Bioinformatics Centre is run by the Department**  
 c. international recognition **No**

**21. Special research laboratories sponsored by / created by industry or corporate bodies**

**No**

**22. Publications:**

- ☐ Number of papers published in peer reviewed journals (national / international)

<u>Year</u>	<u>National</u>	<u>International</u>	<u>Total</u>
2015	4	22	26
2014	0	14	14
2013	1	20	22
2012	5	15	20

- ☐ Monographs

Nil

- ☐ Chapters in Books

2015	09
2014	10

- ☐ Edited Books

Nil

- ☐ Books with ISBN with details of publishers

Nil

- ☐ Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- ☐ Citation Index – range / average

- ☐ SNIP

- ☐ SJR

- ☐ Impact Factor – range / average

Range: 1 – 4

Average: 2.5

- ☐ h-index

Prof. T K Das	02
Prof. Tarakdas Basu	08
Prof. Rita Ghosh	09
Prof. Alpana seal	02

Dr. Angshuman Bagchi 09

Dr. Utpal Ghosh 09

See annexure:

**23. Details of patents and income generated :** Nil

**24. Areas of consultancy and income generated :** Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad** Nil

**26. Faculty serving in**

**a) National committees b) International committees c) Editorial Boards d) any other (please specify)**

1. Prof Tapan Kumar Das is the external member of UG and PG Board of Studies of Burdwan University.
2. Prof. T. Basu was selected and acted as an Expert Committee Member of UGC-Major Research Projects for the subjects Physics / Biophysics during 2012-2014.
3. Prof. Rita Ghosh is the External Member, B.O.S. and Ph.D. committee in Microbiology, Vidyasagar University; B.O.S. in Molecular Biology & Biotechnology, Burdwan University. Acted as External Member of Selection Committee for faculty in Microbiology, Vidyasagar University in Biotechnology, Burdwan University, in Biophysics, AIIMS, New Delhi

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

1. Dr. Rakhi Dasgupta and Dr. Angshuman Bagchi participated in the UGC Sponsored Refresher Course on "Interdisciplinary Research using Nano-Science and Nano-Technology" organized by Jadavpur University from 8<sup>th</sup> March, 2015 to 29<sup>th</sup> March, 2015.
2. Dr. Jishu Naskar participated in the Refreshers' Programme organized by Calcutta University on "EVOLUTION OF TEACHING AND RESEARCH IN CHEMISTRY" from 30<sup>th</sup> March, 2015 to 22<sup>nd</sup> April, 2015

**28. Student projects**

1. percentage of students who have done in-house projects including inter-departmental projects : 100%
2. percentage of students doing projects in collaboration with other universities / industry / institute : Nil

**29. Awards / recognitions received at the national and international level by**

**a. Faculty**

Dr. ANGSHUMAN BAGCHI was chosen as 1) "The young Scientist" by Venus International Foundation and was felicitated on 19.12.2015, 2) "The young Scientist" by the university of Kalyani on 15<sup>th</sup> August, 2014. Dr. BAGCHI was also felicitated by Bose Institute at the International Conference on Informatics and Integrative Biology for his research achievements in December, 2014.

Prof. T. K. Das chaired session in the 1) International Conference on Green Chemistry for Sustainable Development, held on 14<sup>th</sup> July, 2012 at Jessore Science and Technology University, Bangladesh and International Conference on Nanoscience and Nanotechnology held during 12<sup>th</sup>-13<sup>th</sup> August, 2014 at Colombo, Sri Lanka.

**Doctoral / post doctoral fellows**

Shri Swarup Roy, a DST-INSPIRE Ph.D. fellow was awarded prize for best oral presentation in 1st National conference on Advancing Biology through Computation and Technology (ABTC'14) held on 22nd August, 2014 at West Bengal State University & Kingstone Educational Institute, Barasat, West Bengal, India.

**b. Students****30. Seminars / Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

1. DBT sponsored Workshop on 'Recent Trends in Molecular Modeling and Simulation in Structural Biology', Nov 14 -18, 2011.
2. Prof. J. J. Ghosh & Prof. A. N. Bhaduri Endowment Lecture, Oct 10, 2012, sponsored by the Departmental Symposium fund.
3. DBT sponsored Workshop on 'Protein Folding and Molecular Modeling, Dynamics and Simulation', Nov 26 -30, 2012.
4. DBT sponsored Workshop on 'Modeling and Drug Designing', Nov. 18-22, 2013.
5. Prof. A. K. Bhattacharyya and Prof. N. N. Dasgupta Memorial Lecture, Feb. 13, 2014, sponsored by the Departmental Symposium fund.
6. DST-PURSE sponsored Seminar on "Modernization of M. Sc. (Biochemistry) and M. Sc. (Biophysics) syllabi and input of the students in this scenario", March 14, 2014.
7. University funded Special Lecture entitled 'Combating disabling diseases by food: from embryo to old life' was delivered By Prof. Asim Duttaroy, University of Oslo, Norway on 14.01.2015 at the APC Hall.
8. Special Lecture entitled 'Molecular chaperones in cancers: The role of co-chaperone HOP' Delivered by Dr. Adrienne L Edkins, Rhodes University, South Africa on 29.01.2015 at the departmental Seminar Hall.
9. University funded Special Lecture entitled 'Combating disabling diseases by food: from embryo to old life' was delivered By Prof. Asim Duttaroy, University of Oslo, Norway on 14.01.2015 at the APC Hall.
10. DBT sponsored Workshop on "In Silico Analysis of Mutations" on December 16, 2015.
11. University funded Special Lecture entitled 'The Dark Side of Proteins: From "Dr. Jekyll" to "Mr. Hyde" ' was delivered Dr. Samrat Mukhopadhyay, Associate Professor, Centre for Protein Science, Design and Engineering under the Department of Biological Sciences and Department of Chemical Sciences, IISER-Mohali on 22.12.2015 at the APC Hall.

**31. Code of ethics for research followed by the departments : All normal ethics are maintained****32. Student profile programme-wise:**

Name of the Programme (refer to question no.4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MSc. In Biochemistry	2011 – 2012	11	19	100	100
	2012 – 2013	19	13	100	100
	2013 – 2014	20	9	100	100
	2014 – 2015	03	08	100	100
MSc. In Biophysics	2011 – 2012	6	11	100	100
	2012 – 2013	4	11	100	100

Name of the Programme (refer to question no.4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
	2013 – 2014	3	16	100	100
	2014 – 2015	04	03	100	100
Ph.D. (full-time scholars)	2011 – 2012	24	4		
	2012 – 2013	24	11		
	2013 – 2014	19	13		
	2014 – 2015	26	17		

### 33. Diversity of students

Name of the Programme (refer to question no. 4)		% of students from the Same university	% of students from other Universities within the State	% of students from universities outside the State	% of students from other countries
MSc. In Biochemistry	2011-12	95	5	0	0
	2012-13	95	5	0	0
	2013-14	60	40	0	0
	2014-15	55	45	0	0
MSc. In Biophysics	2011-12	95	5	0	0
	2012-13	95	5	0	0
	2013-14	60	40	0	0
	2014-15	43	57	0	0
Ph.D. (full-time scholars) in Biochem. & Biophys. Altogether.	2011-12	60	37	03	0
	2012-13	57	40	03	0
	2013-14	59	36	05	0
	2014-15	48	48	04	0

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

	Number of students qualified during 2011 - 2015
NET	4
GATE	22
SET	Nil

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	NA
PG to M. Phil.	None
PG to Ph.D.	(25/144) = 17.3%

Student progression	Percentage against enrolled
Ph.D. to Post-Doctoral	(11/14) = 78.5%
Employed	
<input type="checkbox"/> <input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> <input type="checkbox"/> Other than campus recruitment	
Entrepreneurs	

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	10%
from other universities within the State	90%
from universities from other States	0
from universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :** None

### 38. Present details of departmental infrastructural facilities with regard to

#### a) Library

There are more than 2100 books from the departmental library has been shifted to University Central Library pertinent to these subjects. Presently, instead of purchasing printed hard copy of journals, the university library subscribes different e-journals with full text

#### b) Internet facilities for staff and students

In the department, there is one computer room for the students with 12 PCs with internet connection. There are also internet connections in faculties' rooms and laboratories. 24 hours internet and networking facilities are maintained by Centre for Information and Resource Management (CIRM) of the university. CIRM also maintains quality internet and journal surfing facility, funded by UGC, as a university central infrastructure.

The university Bioinformatics and Computational Biology facilities funded by DBT is installed at and led by our department.

#### c) Total number of class rooms

The Department at present has two classrooms and one seminar-cum-classroom to accommodate all PG I and PG II students for both common and special theory classes of both the M.Sc. Streams.

#### d) Class rooms with ICT facility

#### e) Students' laboratories

There are two laboratories for carrying out experiments and a computer room for computer practical class. Besides they also use sophisticated instruments placed in different other rooms dedicated for research.

#### f) Research laboratories

Besides the research laboratories of the faculties, as centralized facility the department presently has

- One cold room; One cell culture room; Four instrument rooms, where the major equipments funded by DST-FIST UGC-SAP programmes are installed; One Microbiology room; One isotope room; The DBT-Bioinformatics centre



**39. List of doctoral, post-doctoral students and Research Associates****a. from the host institution/university**

- Ruchira Chakraborty, Riya Mukherjee, Sourav Singha Roy, Monobesh Patra, Sanchari Bhattacharya, Swarup Roy; Semanti Ghosh; Asmita Pramanik, Jaganmay Sarkar, Animesh Chowdhury; Triparna Mukherjee; Sayantani Karmakar; Debashri Manna, Ratan Sadhukhan, Debopriya De, Poulami Mukhopadhyay, Anindita Mitra, Arpita Chakraborty, Mr. Pijush Kanti Pramanik, Surojit Hansda, Partha Das

**b. from other institutions/universities**

- Milon Banik, Mousumi Patra, Debanjan Dutta, Amit Das, Simanti Bhattacharyya, Sujay Ray, Rajabrata Bhuyan, Md. Nur Alam, Nikhat Saba, Sayed Modinur Rahaman, Tina Nasrin, Tirthankar Ghosh, Abir Chakraborty, Sourav Ghosh, Victor Banerjee, Ms. Ria Biswas, Mr. Ananya Ali, Mr. Nilkanta Chowdhury, Mr. Satyabrata Samui, Tirthankar Ghosh, Yogesh Bhai Patel, Kanchan Karmakar, Dibyendu Paik

**40. Number of post graduate students getting financial assistance from the university :**  
MSc. students can avail 'merit' and 'merit cum means' scholarships.**41. Was any need assessment exercise undertaken before the development of new programme(s)?** If so, highlight the methodology.

Before last modification of the courses syllabi, a one-day seminar entitled "Modernization of M. Sc. (Biochemistry) and M. Sc. (Biophysics) syllabi and input of the students in this scenario" was organized by the department on March 14, 2014, sponsored by DST-PURSE.

**42. Does the department obtain feedback from****a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** No**b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

It has been started from the academic year 2013-14 and a cumulative report of the feed-back of the students, passed out in 2015, was distributed amongst the faculties in a subsequent Departmental Committee meeting.

**c. Alumni and employers on the programmes offered and how does the department utilize the feedback? :** No**43. List the distinguished alumni of the department (maximum 10)**

Serial No.	Name	Year of Passing	Position held
1.	Dr. Sudip Chattarjee	1984	Professor, NIT, Durgapur
2.	Dr. Santanu Dasgupta	1988	Vice-President, Reliance, Biotechnology Division, Mumbai.
3.	Dr. Sudip Ghosh	1989	Professor, Department of Biotechnology, IIT, Kharagpur.
4.	Tapabrata Lahiri	1989	Associate Professor, IIIT Allahabad.
5.	Prof. Suman Dhar	1993	Professor, Department of Molecular Medicine, JNU, New Delhi. S.S. Bhatnagar Awardee in the year 2012.
6.	Dr. Sudip Das	1994	Associate Professor, Haldia Institute of Technology, Haldia, Purba Medinipur.
7.	Dr. Soumen Pal	1995	Associate Professor, Medical school, Kansas State University, USA.

Serial No.	Name	Year of Passing	Position held
8.	Dr. U. Ghosh	1998	Assistant Professor, Dept. of Biochemistry & Biophysics, Kalyani University
9.	Dr. A. Bagchi	2000	Assistant Professor, Dept. of Biochemistry & Biophysics, Kalyani University
10.	Dr. Tathagata Choudhury		Associate Professor, Department of Biotechnology, Visva Bharati, Shanti Niketan, Bolpur.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

In all special lectures and Ph.D. lectures, students are invited. In a half-paper of 50 marks, there is a 'Review- Project', where each student delivers a talk and submits a write-up. In syllabi, there is a 'Project Work' of 150 marks (6 credits), for which the students associate themselves with different laboratories of National Institutes and Universities, deliver talk and submit write-up on the project work..

**45. List the teaching methods adopted by the faculty for different programmes.**

Chalk and Board ; Overhead projection; Power point projector; Use of some Kits for practical experiments.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The department puts emphasis on quality teaching and research. Importance is given to holding regular classes both theoretical and practical. Syllabi are updated regularly keeping parity with UGC suggested syllabi. Recently 'Choice Based Credit Course System' has been introduced. Excellent state of the art equipments are available in the department for teaching and research. Constant efforts are made to obtain departmental projects to procure and provide better infrastructural facilities for both teaching and research.

**47. Highlight the participation of students and faculty in extension activities.**

Not mentionable.

**48. Give details of "beyond syllabus scholarly activities" of the department.**

Not mentionable.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The research works of the departmental faculties in the area of cellular, molecular and structural biology are mostly fundamental and therefore generate new basic knowledge. The researches in the field of Nanobiotechnology are mostly applied and therefore generate knowledge to apply.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**A. Major Strengths (5 points)**

1. Combination of faculties having educational and research expertises in Biochemistry and Biophysics separately.
2. Mutual understanding amongst the faculties.

3. Most students avail university hostel facility or private mess facility in areas adjacent to the university and so can give time beyond university official hours.
4. Good computational facility due to the existence of DBT-Bioinformatics (BIF) centre in the department.
5. Good research publication profile of the faculties.

**B. Major Weaknesses (5 points)**

1. There is scarcity of space and so the faculties have not sufficient laboratory facility to conduct their research properly. Moreover, laboratory space to accommodate the 40 no. students per year is not sufficient.
2. Lack of departmental library facility for over last one year, due to the transfer of departmental library books to the Central Library.
3. Scarcity of funds to keep the state-of-the-art equipments under AMC.
4. Lack of motivated students as, most opt the courses without getting chance in PG courses of their graduation major subject namely, Physics (particularly), Chemistry, Zoology etc.
5. Low success rate of the students in the NET/GATE examinations.

**C. Major Opportunities (5 points)**

1. Students have good and sufficient opportunities of research and other higher learning after being masters.
2. For our students, opportunities of getting job as school teachers are higher compared to the students of other bio-science streams, as they can teach both physical and bio-sciences.
3. Students have job opportunities in MNCs and other companies related to the sales of fine bio-chemicals, bio-molecules, equipments, pharmaceuticals.
4. Students have opportunities to be recruited as Biochemists (more) and Biophysicists (less) in medical and diagnostic centres.
5. Good opportunities of the Ph.D. awarded students to involve themselves in post-doctoral research in reputed institutions within the country and abroad.

**D. Major Challenges (5 points)**

1. Subjects like Biochemistry and Biophysics, being multi-disciplinary in nature, are more challenging than the conventional biological subjects.
2. Our subjects are very challenging for high-end research in biology.
3. These subjects are gradually being challenging as, most of the newly established institutions (central universities, IITs, IISERs, private universities etc.) are opening up such multidisciplinary courses.
4. In such subjects, there is challenging scope of collaborations with various institutions in both teaching and research.
5. To orient the mostly physical science graduates to biological science is surely very challenging.

**52. Future plans of the department.**

**Plan for teaching**

1. Process has been started for further modifying the syllabi, so that they can be implemented from the next academic session 2016-17.
2. The load of the syllabi will be made such that a full semester can be allotted for a project work of 16 credits (400 marks), instead of the existing weight-age for project work of 8 credits (200 marks) of 8 weeks duration.

3. Possibilities are being explored so that sharing of resources (human and material) in teaching can be made in future within the departments of 'Microbiology', 'Molecular Biology & Biotechnology' and ours 'Biochemistry & Biophysics' under a proposed 'School of New Biology'.

#### **Plan for Research**

1. Process will be initiated soon to modify the syllabus for the Ph. D. Course work, so that they can be implemented from the next academic session 2016-17.
2. The syllabus modification will be made in such a manner that a common with optional courses for the Ph.D. students can be started within the departments of 'Microbiology', 'Molecular Biology & Biotechnology' and ours 'Biochemistry & Biophysics' under a proposed 'School of New Biology'.
3. To organize an International Symposium inviting pioneer researchers (1 or 2 Noble laureates also), sometime in the 1<sup>st</sup> quarter of 2017.



# DEPARTMENT OF BOTANY



1. **Name of the Department:** Botany
2. **Year of establishment:** 1961
3. **Is the Department part of a School/Faculty of the university?** Faculty of Science
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc.D.Litt. etc.):** P.G.; Ph.D.; D.Sc.
5. **Interdisciplinary programmes and departments involved Interdisciplinary Research Programme within the Department**

Sections Involved	Faculty Members Involved
Genetics, Molecular Genetics, Biometry & Plant Breeding & Microbiology	Prof. Parthadeb Ghosh & Prof. Chandan Sengupta
Genetics, Molecular Genetics, Biometry & Plant Breeding & Microbiology	Prof. Parthadeb Ghosh & Dr. Sankar Narayan Sinha
Genetics, Molecular Genetics, Biometry & Plant Breeding & Plant Physiology, Biochemistry & Plant Molecular Biology	Prof. Parthadeb Ghosh & Prof. Padma Chatterjee
Genetics, Molecular Genetics, Biometry & Plant Breeding & Plant Physiology, Biochemistry & Plant Molecular Biology	Prof. Parthadeb Ghosh & Dr. Sudipta Roy
Genetics, Molecular Genetics, Biometry & Plant Breeding & Plant Physiology, Biochemistry & Plant Molecular Biology	Prof. Parthadeb Ghosh & Dr. Malay Kumar Adak
Genetics, Molecular Genetics, Biometry & Plant Breeding & Phycology	Prof. Parthadeb Ghosh & Dr. Neera Sen Sarkar
Plant Physiology, Biochemistry & Plant Molecular Biology & Pteridology-Palaeobotany	Dr. Malay Kumar Adak & Dr. Sudha Gupta
Genetics, Molecular Genetics, Biometry & Plant Breeding & Pteridology-Palaeobotany	Prof. Animesh K. Datta & Dr. Sudha Gupta
Taxonomy of Angiosperms and Biosystematics & Plant Physiology, Biochemistry & Plant Molecular Biology	Prof. Sobhan K. Mukherjee & Dr. Sudipta Roy

#### Interdisciplinary Research Programme with other Departments of University

Departments/Sections Involved	Faculty Members Involved
Genetics, Molecular Genetics, Biometry & Plant Breeding Section & Department of Molecular Biology & Biotechnology, Kalyani University	Prof. Parthadeb Ghosh & Dr. Tapas K. Bandyopadhyay
Mycology and Plant Pathology Section & Physical Chemistry Section of Department of Chemistry, Kalyani University	Prof. Sujata Chaudhuri & Dr. Swati De
Genetics, Molecular Genetics, Biometry & Plant Breeding Section & Physical Chemistry Section of Department of Chemistry, Kalyani University	Prof. Animesh K. Datta & Prof. Ashoke Prasun Chattopadhyay
Phycology Section & Physical Chemistry Section of Department of Chemistry, Kalyani University	Dr. Neera Sen Sarkar & Dr. Swati De

#### Interdisciplinary Research Programme with other Universities, Institutes etc.

University/Institute	Faculty Members Involved
With National Organization	
Central Agricultural Research Institute (I.C.A.R.), Port Blair, India	Prof. Parthadeb Ghosh
National Bureau Plant Genetics Resources, New Delhi, India	
Department of Plant Breeding, Central Sericulture and Textile Research Institute (CSTRI), Berhampore, W.B., India	

University/Institute	Faculty Members Involved
<b>With National Organization</b>	
Department of Biotechnology, C.S.T.R.I. Berhampore, W.B., India	
Department of Plantation Crop, UBKV, Cooch Behar, W.B., India	
Department of Biotechnology, Vidyasagar University, West Bengal, India	
Plant Molecular Biology & Virology Lab, CRIJAF, Barrackpore, W.B., India	Prof. Sujata Chaudhuri
Department of Plant Pathology, Bidhan Chandra Krishi Viswa Vidyalaya, Mohanpur, W.B.	
Central National Herbarium, Botanical Survey of India	
Regional Research Institute, Department of Natural Products, CSIR, Bhubaneswar, India	Prof. S. K. Mukherjee
Industrial Section, Indian Museum, Botanical Survey of India, Kolkata, India	
Botanical Survey of India, Northern Circle, Dehra-Dun, India	
Genetics Department of Bidhan Chandra Krishi Viswa Vidyalaya, W.B., India	Prof. Animesh K. Datta
Central Research Institute of Jute and Allied Fibres (CRIJAF), Barrackpore, W.B., India	
Haldia Institute of Biotechnology, Haldia, W.B., India	
Indian Statistical Institute, Kolkata, India	Prof. Chandan Sengupta
Central Research Institute of Jute and Allied Fibres (CRIJAF), Barrackpore, W. B., India	
Bidhan Chandra Krishi Viswa Vidyalaya, W.B., India	Dr. Sankar Narayan Sinha
Bidhan Chandra Krishi Viswa Vidyalaya, W.B., India	Dr. Sudipta Roy
Botany Department of University of Calcutta, W.B., India	Dr. Sudha Gupta
West Bengal Biodiversity Board, Department of Environment, Govt. of West Bengal, India	Dr. Neera Sen Sarkar
P. G. Department of Botany, Scottish Church College, University of Calcutta	

6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**  
Nil
7. **Details of programmes discontinued, if any, with reasons:** Not Applicable
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**  
**Session: 2010-11, 2011-12, 2012-13** : Semester with Course & Credit System  
**Session 2014-15 onwards** : Semester with Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:** Faculty members of the Department teach courses in the Departments of Microbiology, Molecular Biology & Biotechnology, Zoology, Physiology, and Environmental Science of the University.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	---	06
Associate Professor	05	03	02
Assistant Professor	12	09	04



Others	---	---	---
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**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M. Phil. Students guided for the last 4 years
P. D. Ghosh (Reemployed from 01.07.2010)	M.Sc.; Ph.D.	Professor	Genetics, Molecular Genetics, Biometry & Plant Breeding	36+	14 Ph.D.
Sujata Chaudhuri (Reemployed from 01.10.2014)	M.Sc.; Ph.D.	Professor	Mycology & Plant Pathology	35+	04 Ph.D.
Sobhan K. Mukherjee (Reemployed from 01.04.2013)	M.Sc.; Ph.D.	Professor	Taxonomy of Angiosperms & Biosystematics	36 (7+29)	06 Ph.D.
Chandan Sengupta	M.Sc.; Ph.D.	Professor	Microbiology	32½ (3+29½)	10 Ph.D.
Padma Chatterjee (Reemployed from 01.04.2011)	M.Sc.; Ph.D.	Professor	Plant Physiology, Biochemistry, & Plant Molecular Biology	29+	04 Ph. D.
Animesh K. Datta (Reemployed from 01.09.2014)	M.Sc.; Ph.D.	Professor	Genetics, Molecular Genetics, Biometry & Plant Breeding	29 (9+20)	08 Ph.D.
Sankar Narayan Sinha	M.Sc.; B.Ed; Ph.D.	Associate Professor	Microbiology	16 (8+8)	---
Sudipta Roy	M.Sc.; M.Tech.; Ph.D.	Associate Professor	Plant Physiology, Biochemistry, & Plant Molecular Biology	18 (14+4)	---
Malay Kumar Adak	M.Sc.; Ph.D.	Assistant Professor	Plant Physiology, Biochemistry, & Plant Molecular Biology	08+	---
Sudha Gupta	M.Sc.; Ph.D.	Assistant Professor	Pteridology & Palaeobotany	07+	---
Neera Sen Sarkar	M.Sc.; Ph.D.	Assistant Professor	Phycology	09 (5+4)	---
Bejoy Sekhar Datta	M.Sc.; Ph.D.	Assistant Professor	Mycology & Plant Pathology	06 (2½+3½)	---

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

**Guest Teachers :**

Dr. R. D. Banerjee, Prof. (Dr.) Tuhinsri Sen, Dr. Bharati Nandi, Prof. (Dr.) Gour Gopal Maiti, Prof. (Dr.) Samit Roy, Dr. Madhusudan Mandal

**13. Percentage of classes taken by temporary faculty – programme-wise information**

Name	M. Sc. Programme			
	Semester I	Semester II	Semester III	Semester IV
Dr. R. D. Banerjee	NA	NA	NA	<b>40 classes</b> (Course BO4.1 & BO4.2-Phycology elective paper)
Prof. (Dr.) Tuhinsri Sen	NA	10 Classes (Course BO2.1-Gymnosperm)	NA	30 Classes (Course BO4.2- Pteridology-Palaeobotany elective paper)
Dr. Bharati Nandi	NA	<b>10 Classes</b> (Course BO2.1-Gymnosperm)	NA	<b>30 Classes</b> (Course BO4.1-Pteridology-Palaeobotany elective paper)
Prof. (Dr.) Gour Gopal Maiti	40 classes (BO1.3 & BO1.6-Taxonomy of Angiosperms general paper Theory & Practical)	NA	NA	<b>40 classes</b> (Course BO4.1 & BO4.2-Taxonomy & Biosystematics elective paper)
Prof. (Dr.) Samit Roy	NA	NA	NA	<b>40 classes</b> (Course BO4.1 & BO4.2-Phycology elective paper)
Dr. Madhusudan Mandal	NA	NA	NA	<b>40 classes</b> (Course BO4.1 & BO4.2-Taxonomy & Biosystematics elective paper)

**14. Programme-wise Student Teacher Ratio (Average for 5 years)**

Courses in M. Sc. Programme	Session			
	July-December	January-June	July-December	January-June
<b>Semester I</b>				
BO1.1 & BO 1.5	12.67			
BO1.2 & BO 1.6	19.00			
BO1.3 & BO 1.7	19.00			
BO1.4 & BO 1.8	19.00			
<b>Semester II</b>				
BO2.1 & BO 2.5		8.25		
BO2.2 & BO 2.6		11.0		
BO2.3 & BO 2.7		11.0		
BO2.4 & BO 2.8		16.50		
<b>Semester III</b>				
BO 3.1 & BO 3.4			14.50	
BO 3.2 & BO 3.5			5.80	
BO 3.3 & BO 3.6			3.63	
<b>Semester IV</b>				
BO4.1, BO4.2, BO4.3 &				4.00

BO 4.4

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

No. of Staff	Sanctioned	Filled	Actual (including CAS & MPS)
<b>Academic support staff (technical)</b>			
Technical assistant	05	04	05
Laboratory Attendant	03	02	03
Field Assistant	01	01	01
Herbarium Assistant	01	---	01
Specimen collector	01	---	01
<b>Administrative staff</b>			
Office Attendant	03	03	03
Jr. Assistant	02	01	02
Store Keeper	01	01	01
Sweeper	02	02	02
Mali	01	---	01
Casual	01	01	01

**16. Research thrust areas as recognized by major funding agencies**

- Characterization and Documentation of Genetic Resources;
- Hybridization & Crop Improvement;
- Diversity analysis of phytopathogens;
- Mycoremediation approaches;
- Conservation & Regeneration;
- Climate Change

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Name of Faculty	Funding Agency	Project Title	Total Grant Received (in Rs.)
Prof. P.D. Ghosh	UGC-MRP	Molecular characterization and in vitro conservation of elite Indian cultivars of <i>Cymbopogon</i> spp. through RAPD, ISSR and AFLP analysis	7,65,800/-
Prof. S. Chaudhuri	UGC-MRP	Analysis of Diversity of population of phytopathogenic species of <i>Alternaria</i> from different crops using molecular techniques.	10,21,000/-
Prof. S. Chaudhuri	MOEF, Govt of India	Study on macrofungal diversity in the forest litter and screening their lignolytic properties to explore the feasibility of using litter-decomposing fungi as bioremediants	19,91,119/-
Prof. A. K. Datta	UGC MRP	Cytomorphological, biochemical and molecular characterization of some jute species aiding to interspecific hybridization and crop improvement.	10,07,734/-

Name of Faculty	Funding Agency	Project Title	Total Grant Received (in Rs.)
Dr. S. Gupta	UGC MRP	Establishment of fern spore bank at lower Gangetic Plain of West Bengal: A potential source for conservation and regeneration	12,80,300/-
Dr. B. S. Datta	UGC Start-Up Grant	Isolation and characterization of microorganisms from heavy metal-contaminated soil and their potential bioremediation activity	6,00,000/-
Dr. N. Sen Sarkar	SERB, DST, Govt. of India	Study on phytoplankton dynamics within climate change perspective in the estuarine system of the Indian Sundarbans	23,90,000/-
Dr. N. Sen Sarkar	UGC - Minor	Studies on diatom microfossils from the Sundarban Tiger Reserve area, West Bengal	1,90,000/-

### 18. Inter-institutional collaborative projects and associated grants received:

#### a) National collaboration: 02

Faculty Name	Collaborator	Funding Agency	Project Title	Total Grants Received
Dr. N. Sen Sarkar (as Coordinating Team)	West Bengal Biodiversity Board	Dept. of Environment, Govt. of West Bengal	Strengthening of Access and Benefit Sharing mechanism for rice genetic resources through documentation and registration of traditional rice varieties of West Bengal as 'Farmer's Variety' under the Protection of Plant Varieties & Farmers' Rights Act, 2001	3,90,000/-
Dr. N. Sen Sarkar (Co-Investigator)	West Bengal Biodiversity Board	Dept. of Environment, Govt. of West Bengal	Annotated Bibliography of Environmental Research in West Bengal	3,50,000/-

#### b) International collaboration: Nil

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

Departmental Project	Year	Total Grants Received
DST-FIST: 1 <sup>st</sup> level	2007-2012	25.00 lakhs
UGC-Non SAP	2008 – 09	15.00 lakhs
UGC-Non SAP	2009 – 10	15.00 lakhs
DST-FIST: 2 <sup>nd</sup> level	2013-2018	80.00 lakhs

### 20. Research facility / centre with

- a) state recognition: Nil
- b) national recognition: Nil
- c) international recognition: Nil

### 21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

**22. Publications: (ANNEXURE I)**

Year	Journal article		Total	Books	Book Chapter	Online document	Edited Books
	National	International					
2010	16	30	46	01	01	00	00
2011	15	33	48	00	04	00	00
2012	14	41	55	02	22	09	01
2013	27	35	62	04	03	18	00
2014	15	40	55	01	04	18	00
Total	87	179	266	08	34	45	01

- \* Number of papers published in peer reviewed journals (national/ international) :Total: 266 (National-87 International-179)
- \* Monographs : Nil
- \* Chapters in Books : 34
- \* Edited Books : 01
- \* Online document : 45
- \* Books with ISBN with details of publishers : 08 (Annexure I)
- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 324
- \* Citation Index – range / average : 0 to 8
- \* SNIP : Range 0 to 2.035
- \* SJR : Range: 0 to 1.34
- \* Impact Factor – range / average : Range: 0 to 3.208; Average: 0.20
- \* h-index : 0 to 53

**23. Details of patents and income generated: Patent : Nil ;****24. Areas of consultancy and income generated : Nil****25. Faculty selected nationally / internationally to visit other laboratories/ institutions/industries in India and abroad:**

1. Dr. Sudha Gupta: Visited Palaeontological Museum of Liaoning, Chaoyang, China in September 2009
2. Dr. Malay Kumar Adak: is visiting Agricultural Institute, Centre for Agricultural Research of the Hungarian Academy of Science, Budapest, Hungary for an exchange visit during 05.08.2014 to 31.10.2014.

**26. Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Name	National committees	International committees	Editorial Boards	Any other
Prof. P. D. Ghosh	1. Member of Executive Body of Plant Tissue Culture Association of India, New Delhi 2. Executive Member (Convener-Secretary), All India Society for	----	1. Perspectives in Cytology and Genetics, 2011 Vol. XV; 2013 Vol. XVI 2. Journal of Crop and Weed 3. African Journal	1. President, D.D.K. Educational Trust; Bankura 2. President, D.D.K., Mahavidyalaya, Bankura 3. Referee of different

Name	National committees	International committees	Editorial Boards	Any other
	Cytologists and Geneticists, Kolkata 3. Academic Advisory Board, Life Science, Jagadish Bose National Science Talent Search Foundation, Kolkata		of Biotechnology	National and International Journals
Prof. Sujata Chaudhuri	Member, Executive Body, Association for Advancement in Plant Protection, Kolkata			Referee –Indian Phytopathology, IARI, New Delhi & African Journal of Agriculture Research.
Prof. Sobhan K. Mukherjee	----	----	----	Referee of different National and International Journals
Prof. Chandan Sengupta	----	----	----	Referee of different National and International Journals
Prof. Padma Chatterjee	----	----	----	Referee of different National and International Journals
Prof. Animesh K. Datta			1. Journal of Plant Development Sciences 2. Plant Archives	Referee of different National and International Journals
Dr. Sankar Narayan Sinha	----	----	Empirical Journal of Biology	Referee of different National and International Journals
Dr. Sudipta Roy	----	----	----	----
Dr. Malay Kumar Adak	----	----	----	Referee of different National and International Journals
Dr. Sudha Gupta	Co-opted Member of Executive Body of Botanical Society of Bengal (2010-2012)	1. Member of Executive Body of International Organisation of Palaeobotany as Regional Representative, India (2013 onwards) 2. Assistant Treasurer of International Organisation of Palaeobotany – Indian Chapter (2008-till date)	----	----

Name	National committees	International committees	Editorial Boards	Any other
Dr. Neera Sen Sarkar	----	----	----	----
Dr. Bejoy Sekhar Datta	----	----	----	----

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)**

Name	UGC, ASC, Refresher	Orientation programs	Workshops	Training programs
Dr. Sankar Narayan Sinha	----	----	----	Summer Training Programme organised by Dept. of Botany, KU from 27.06.2014 to 12.07.2014
Dr. Sudipta Roy	----	----	----	Summer Training Programme organised by Dept. of Botany, KU from 27.06.2014 to 12.07.2014
Dr. Malay Kumar Adak	----	----	----	Summer Training Programme organised by Dept. of Botany, KU from 27.06.2014 to 12.07.2014
Dr. Sudha Gupta	----	Orientation Programme at UGC-ASC, Jadavpur University, Kolkata from 01.02.2010 to 27.02.2010 February	----	1. Summer Training Programme organised by Dept. of Botany, KU from 27.06.2014 to 12.07.2014 2. One Week Training Programme on 'Climate Change and Carbon Mitigation' for Scientists and Technologists Working in Government Sector at ICFRE, Dehradun from 19.11.2012- 23.11.2012
Dr. Neera Sen Sarkar	----	Orientation Programme at UGC-ASC, Jadavpur University, Kolkata from 17.02.2014 to 15.03.2014	----	1. Summer Training Programme organised by Dept. of Botany, KU from 27.06.2014 to 12.07.2014 2. Training Programme on Integrating Climate Change Adaptation into Development Planning organized by Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ), Germany from 3rd - 8th September 2012
Dr. Bejoy Sekhar Datta	Refresher Course in Life sciences at	Orientation Programme at UGC-ASC,		Summer Training Programme organised by Dept. of Botany, KU from 27.06.2014 to



Name	UGC, ASC, Refresher	Orientation programs	Workshops	Training programs
	UGC-ASC, University of Calcutta, Kolkata from 19.11.2012 to 08.12.2012	Jadavpur University, Kolkata from 08.11.2010 to 06.12.2010		12.07.2014

## 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : **100%**
- percentage of students doing projects in collaboration with other universities / industry / institute : **Nil**

## 29. Awards / recognitions received at the national and international level by

### a. Faculty

Name of Faculty	Name of the Award	Awarded by
<b>National level</b>		
Prof. P. D. Ghosh	Contribution in Plant Tissue Culture (2012)	Plant Tissue Culture Association of India
Prof. P. D. Ghosh	Contribution in Plant Science (2014)	Botanical Society of Bengal
Prof. S. K. Mukherjee	Contribution in Plant Science (2014)	Botanical Society of Bengal
Prof. Sujata Chaudhuri	Prof. S.R. Bose Medal ( 2013)	Indian Mycological Society, Kolkata
Prof. Sujata Chaudhuri	Humanism, Integration & Academic Achievement, 2014	University of Kalyani
Prof. S. K. Mukherjee	Humanism, Integration & Academic Achievement, 2014	University of Kalyani
Prof. A. K. Datta	Humanism, Integration & Academic Achievement, 2014	University of Kalyani
Dr. Sudha Gupta	Young Scientist (2014)	University of Kalyani
Dr. Neera Sen Sarkar	Young & Integrated Academician (2014)	University of Kalyani
Dr. Neera Sen Sarkar	Fast Track Young Scientist (2013)	SERB – DST Govt. of India
<b>International level</b>		
Dr. Sudha Gupta	Best Speaker Award in 5 <sup>th</sup> International Botanical Conference (2011)	Bangladesh Botanical Society

### b. Doctoral / post doctoral fellows: DST-INSPIRE FELLOW (1)

### c. Students:

Sl. No.	Names of the prizes/awards	Allotted for	Sponsored by
1	Certificate of Merit	First in first class in M.Sc.	Kalyani University
2	Chinmoy Nandi Memorial Prize	Highest marks obtained in M.Sc. Part II (End Term Semester)	Alumni Association, Botany Department, Kalyani University

Sl. No.	Names of the prizes/awards	Allotted for	Sponsored by
3	Dr. N. K. Bhattachahria Memorial Prize	Highest marks obtained in special paper Cytology, Genetics and Plant Breeding	Alumni Association, Botany Department, Kalyani University
4	Prof. A. K. Sarkar Memorial Prize	Highest marks obtained in special paper Taxonomy of Angiosperm and Biosystematics	Dr. Nimai Bhar, Alumnus
5	Prof. S.N. Dasgupta Memorial Prize	Highest marks obtained in Special paper Mycology and Plant Pathology	Sri. Mrinal Chakroborty, Alumnus
6	Mitali Memorial Award for merit	M.Sc. Part II (End Term Semester) students with highest marks obtained in M. Sc. Part I	Mr. Bhanu Dasgupta, Alumnus
7	Mitali Memorial Award for means	M.Sc. Part II (End Term Semester) student from a needy family	Mr. Bhanu Dasgupta, Alumnus
8	Prof. A.K. Sarkar Memorial Award	Obtained 2 <sup>nd</sup> highest marks in M. Sc. Part I (Mid Term Semester)	Mrs. Bithika Sarkar, W/O Late Prof. A.K. Sarkar
9	Prof. S. P. Saha Memorial Award	Highest marks obtained in special paper Plant Physiology, Biochemistry, and Plant Molecular Biology	Dr. Pronab Krishna Chaudhury, Alumnus
10	R. M. Memorial Medal	Highest marks obtained in special paper Microbiology	Mr. Tapan Kr. Majumdar, Alumnus
11	Prof. U. Sen Award	Highest marks obtained in special paper Pteridology & Paleobotany	Dr. Sauren Das, Alumnus
12	Prof. S. P. Sen Memorial Award	Running Student for Qualifying GATE/SET/NET	Prof. P.D. Ghosh, Prof. of the Department of Botany, K.U.

**30. Seminars/ Conferences/Workshops organized and the source of funding (National / International) with details of outstanding participants, if any.**

Seminars/ Conferences/Workshops	Year	Source of funding	Outstanding participants, if any
One day Seminar on the occasion of Golden Jubilee Celebration of Kalyani University	March 2010	UGC-unassigned grant, Kalyani University	i. Prof. K. R. Sammadar, Former Prof. of Botany, University of Kalyani ii. Prof. Pulak Lahiri Nilratan Sarkar Professor of Zoology, Dept. of Zoology, Calcutta University iii. Prof. Shyamal Chakraborty, Department of Chemistry, Calcutta University
One day Workshop on 'UG Syllabus in Botany – its present limitations and Up-gradation'	November 2011	UGC-unassigned grant, Kalyani University	Faculty Members of Department of Botany, of all Under-graduate Colleges affiliated to Kalyani University.
One day National Seminar on Plant Sciences in the Genomic Era	March 05, 2014	UGC-unassigned grant, Kalyani University	i. Prof. Apparao Podile, University of Hyderabad ii. Prof. Umesh Varshney, IISc. Bangalore
Summer Training Programme 2014 on Use of Statistical methods in Life Sciences and Research - Thought Processes	June 27– July 12, 2014	Botany Department, Kalyani University	Faculty members from Botany Department and other Departments of University and Colleges
National Seminar on	To be held	Funds to be sought	NA

Seminars/ Conferences/Workshops	Year	Source of funding	Outstanding participants, if any
Cryptogamic Botany – 'Amazing Cryptogams', Dept. of Botany, Kalyani University	on 18 <sup>th</sup> -19 <sup>th</sup> December, 2014	from Funding agencies ( DST, MoEF, UGC)	

### 31. Code of ethics for research followed by the departments:

Honesty, Objectivity, Integrity, Carefulness and Openness is generally abided. A conscious effort is made by all to avoid plagiarism. The Faculty members meet to share ideas, tools and resources and are open to criticism and new ideas.

### 32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Year	Applications received	Selected		Pass percentage	
			Male	Female	Male	Female
M.Sc.	2010	-	25	20	60.00	60.00
	2011	-	23	23	39.13	60.87
	2012	-	19	25	78.95	76.00
	2013	-	14	31	-	-
	2014	-	14	33+2 readmission	-	-
Ph. D.	2009	05 (M)	06 (F)	11		
	2010	10 (M)	07 (F)	17		
	2011	04 (M)	05 (F)	09		
	2012	10 (M)	01 (F)	11		
	2013	05 (M)	03 (F)	08		
	2014	06 (M)	04 (F)	10		

### 33. Diversity of Students

Name of the Programme (refer to question no. 4)	Year	% of students from the same University		% of students from other Universities within the State		% of students from Universities outside the State		% of students from other Countries	
		Male	Female	Male	Female	Male	Female	Male	Female
M. Sc.	2010	21	22	01	01	----	----	---	----
	2011	22	22	00	02	----	----	----	----
	2012	20 (18+2*)	27 24+3*	01	01	----	----	----	----
	2013	25	20	01	01	----	----	----	----
	2014	11	19	06	11	----	----	----	----

\* Readmission

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations?**

Sl. No.	Year	Civil Services	Defence Services	NET/SET/GATE
1	2010	WB School Service Commission – 4; WB Primary Education Service – 2	Nil	NET – 1
2	2011	WB School Service Commission - 8	Nil	NET – 1
3	2012	WB School Service Commission – 12 Civil Services for Joint BDO – 1	Nil	
4	2013	WB School Service Commission – 4 WB Primary Education Service – 5	Nil	NET – 2 GATE - 1
5	2014	WB College Service Commission – 4	Nil	SET – 3 GATE - 3

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	Not Applicable
PG to Ph.D.	2-3 %
Ph.D. to Post-Doctoral	0.1 %
Employed	
<input type="checkbox"/> Campus selection	Not Applicable
<input type="checkbox"/> Other than campus recruitment	Not Applicable
Entrepreneurs	Not Applicable

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	41.67 %
from other universities within the State	41.67%
from universities from other States from	16.66%
universities outside the country	0.00%

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil**

**38. Present details of departmental infrastructural facilities with regard to**

- a. Library : No Departmental Library facility  
Books and Journals are available in the University's Central Library
- b. Internet facilities for staff and students : Yes
- c. Total number of class rooms : Two (02)
- d) Class rooms with ICT facility : Two (02)
- e) Students' laboratories : Two (02)
- f) Research laboratories : Twelve (12)

**39. List of doctoral, post-doctoral students and Research Associates**

- a. from the host institution/university: Ph.D.: 19; Post-doctoral: 03
- b. from other institutions/universities: Ph.D.: 12; Post-doctoral: 01

**40. Number of post graduate students getting financial assistance from the university:**  
13 each year (1 Merit, 2 Merit cum means, 5 free studentship and 5 half free studentship)

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

**42. Does the department obtain feedback from**

- i. **Faculty on curriculum as well as teaching-learning-evaluation?** If yes, how does the department utilize the feedback? Yes;
- Interaction among the faculty members takes place frequently to discuss the student's performance in the class.
  - The course curriculum is regularly revised and updated every two years.
  - Evaluated class test answer scripts are shown to students with the objective to make them aware of their comprehension of the subject taught.
  - Assessments are made whether the students are learning from their mistakes or not and if required, the faculty members provide additional endeavour to improve the student quality.
- ii. **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** Yes  
The faculty members improve their methodology for teaching on basis of the feedback obtained from the students in a written format.
- iii. **Alumni and employers on the programmes offered and how does the department utilize the feedback?** No

**43. List the distinguished alumni of the department (maximum 10)**

Sl. No.	Distinguished Alumni	Designation and Affiliation
1	Dr. Saumitra Banerjee	Production Manager, CSIRO, Melbourne, Australia
2	Dr. Biswajit Bera	Director ( Research ) Tea Board, Kolkata.
3	Dr. C. C. Giri	Professor, Centre for Plant Molecular Biology (CPMB), Osmania University, Hyderabad.
4	Dr. Snehashish Dattagupta	Professor, Department of Agricultural and Food Engineering, I.I.T. Kharagpur, Kharagpur.
5	Dr. Swati G. Bhattacharya	Professor, Division of Plant Biology, Bose Institute, Kolkata
6	Dr. Samir Ranjan Sikdar	Professor, Division of Plant Biology, Bose Institute, Kolkata
7	Dr. Badal Kumar Datta	Professor, Department of Botany, Tripura University, Agartala
8	Dr. Thakurdas Saha	Senior Scientist, Genome Analysis Laboratory, Rubber Research Institute of India, Kottayam, Kerala.
9	Dr. Debashish Chakraborty	Scientist, CSIR – National Botanical Research Institute, Lucknow.
10	Dr. Ashish Banerjee	Senior Scientific Officer, Department of Science & Technology, Govt. of West Bengal.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**

- The students are encouraged to deliver lectures on topics of their interest.
- Regular student seminars are held by the Faculty member(s) of the concerned Elective Course chosen by the students.
- Special lectures are organized for the students. The speakers are mostly the Guest Teachers of the Department.

**45. List the teaching methods adopted by the faculty for different programmes:**

- Lectures
- Interactive Sessions

iii. Multimedia instructions with Power Point presentations or Overhead projections of transparency sheets.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- i. By monitoring students responses during the interactive sessions,
- ii. By allocating assignments with deadlines for submission and its seminar presentation
- iii. Conducting regular class tests, evaluating the performance and discussing the performance with the students.

**47. Highlight the participation of students and faculty in extension activities:**

Some faculty members and students are actively involved in National Service Scheme (NSS) programmes.

**48. Give details of “beyond syllabus scholarly activities” of the department:**

Actively participate in Inter/Intra University Youth Festival at Regional, Zonal and National Level, Undertake Field Excursion, Plantation programme, etc.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:**

No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**

- i. Faculty members are actively involved in research including basic and applied aspects of various disciplines of Plant Sciences, which is evinced from research publications made in National and International journals of repute.
- ii. Faculty members participate in national and international Seminars/ symposia and present their research work and discuss the same with their peers.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

**Strength :**

- i. Academic Excellence
- ii. Solidarity
- iii. Camaraderie among departmental colleagues
- iv. Research output
- v. Participation in administrative work

**Weaknesses :**

- i. Shortage of Space
- ii. Shortage of Teaching Staff
- iii. Shortage of Supporting Staff
- iv. Inadequate Infrastructural facilities
- v. Insufficient Funds

**Opportunities :**

- i. Upgradation of Syllabus at regular intervals
- ii. Increase academic interaction via Choice Based Course Credit System
- iii. Interaction with eminent scientists & teachers of India and abroad
- iv. Organization of Seminar/Symposia/Workshop

- v. Faculty improvement through faculty recharging programme

**Challenges :**

- i. Discipline
- ii. Improvement of overall quality of students
- iii. Improvement of research quality
- iv. Providing infrastructural facilities to all sections of the Department
- v. Collaborative work with other academic Universities/Institutes/Industries at National and International level

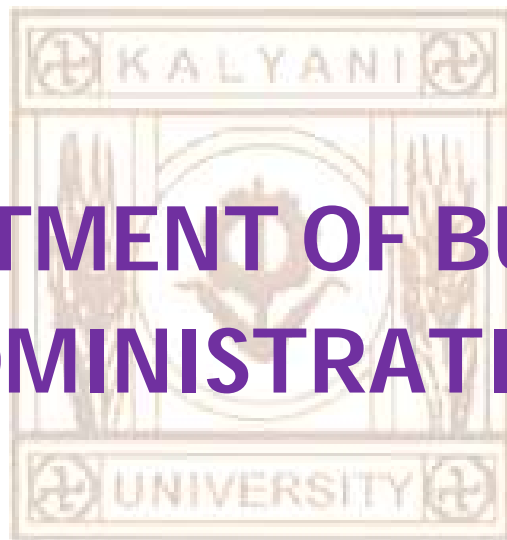
**52. Future plans of the department:**

- Submitting a Departmental Research Project for Central funding ( UGC/DST)
- Establishing a well- maintained Central Equipment Room with state-of art instruments with funding from Central Funding Agencies.
- Opting for Credit Transfer System for better interdisciplinary interaction and exposure for PG students.
- Projects/ Assignments in PG. curriculum in collaboration with other Universities/ Research Institutes / R &D Industries
- Organizing Seminars and Symposium at regular intervals
- Inviting reputed scholars/ teachers in different disciplines of Botany from, within or outside the country to deliver lectures and interact with faculty members, Ph.D. and PG students.
- Encouraging collaborative research
- Coaching Centre for PG students for NET/SET/SLET/GATE Examinations within the Department.





# DEPARTMENT OF BUSINESS ADMINISTRATION



1. **Name of the Department:** Business Administration
2. **Year of establishment :** 2001
3. **Is the Department part of a School/Faculty of the university?**  
Yes, Faculty of Engineering, Technology and Management
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** MBA (PG), Healthcare and Hospitality Management (Diploma), Ph.D.
5. **Interdisciplinary programmes and departments involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**  
Nil
7. **Details of programmes discontinued, if any, with reasons:** Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Semester and Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:**  
A few Faculty members had taken classes in the courses of other Department. Details are as per Annexure I.
10. **Number of teaching posts sanctioned, filled and actual** (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including Filled CAS & MPS)
Professor	01	01	03
Associate Professors	02	01	-
Asst. Professors	03	03	02
Others	-	-	-

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr.Manas Kumar Sanyal	M.Tech, Ph.D.	Professor	Computer Science	25	06 Awarded:4 Registered:2
Dr.SatyajitDhar	M.Com, Ph.D., FCA, ACS	Professor	Accounting, Finance & Control	28	08 Awarded:6 Registered:2
Dr.IsitaLahiri	MBA, Ph.D.	Professor	Marketing	17	10 Awarded:6 Registered:4
Dr.Tuhin Mukherjee	MBA, Ph.D.	Assistant Professor	Finance	03	NIL
Mr.ThirupathiChellapalli	MBA	Assistant Professor	Human Resource	-	NIL

**12. List of senior Visiting Fellows, adjunct faculty, emeritus Professors:** Nil

**13. Percentage of classes taken by temporary faculty – programme-wise information**

MBA Programme:44.16%; DHM Programme:69.23%

**14. Programme-wise Student Teacher Ratio:**

MBA Programme: 38:5; DHM Programme:4:4; PhD Programme: 8:3

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Name of the Post	Sanctioned	Filled	Actual
Sr. Assistant	01	01	01
Office Attendant	01	01	01

**16. Research thrust areas as recognized by major funding Agencies: Accounting & Finance****17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

One(completed)

Funding Agency	Project Title	Grants
AICTE	<i>“Employee Stock Option Plan – Some Emerging Issues: A Study of Selected Industries in India”</i>	Rs. 5.00 lakhs

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration b) International collaboration Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants Received: Two (AICTE)****20. Research facility / centre with**

☐ state recognition ; ☐ national recognition Nil; ☐ international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies**  
Nil**22. Publications:** Details as per Annexure II to VI

\*Number of papers published in peer reviewed journals

(national / international): 77

\*Monographs

\*Chapters in Books: 5

\*Edited Books: 16

\*Books with ISBN with details of publishers: 05

\*Number listed in International Database (For e.g.Web of Science, Scopus, Humanities International Complete, Dare Database -International Social Sciences Directory, EBSCO host, etc.)

\*Citation Index –range / average

\*SNIP

\*SJR

\*Impact Factor –range / average

\*h-index: 2(approx.)

**23. Details of patents and income generated:** Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:** Nil

**26. Faculty serving in**

**a) National committees b) International committees c) Editorial Boards d) any other (please specify)**

Professor Manas Kumar Sanyal acted as Expert in AICTE visiting team during 2013. Further, he is Member BOS, GLF Business School, Kolkata (nominated by West Bengal State University) and member of BOS, JIS COLLEGE OF ENGINEERING, Kalyani.

Professor Satyajit Dhar is a member of the Editorial Board of the Management Journal, *JIS Management Vista*. Dr. Satyajit Dhar is a member of the Ph.D Committee in Management of NetajiSubhash Open University. He is also member of P.G. Board of Studies in Business Administration/Commerce of three Universities, viz., of University of Burdwan, Vidyasagar University and GourBanga University. He is also a member of the Advisory Committee of M.Phil Course in Commerce of University of Calcutta.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

The faculty members improved their skill in both theoretical and practical aspect of Management through several Orientation Programmes, Refresher Courses & FDPs arranged by this Institution and other Institutions.

**28. Student projects**

☐ percentage of students who have done in-house projects including inter-departmental projects:  
100%

☐ percentage of students doing projects in collaboration with other universities /industry / institute:  
100%

**29. Awards / recognitions received at the national and international level by**

☐ **Faculty:**

Professor SatyajitDhar is a recipient of BEST PAPER award at the International Seminar organized by Indian Accounting Association jointly with Jiwaji University, Gwalior held at Gwalior.

☐ Doctoral / Post doctoral fellows

☐ Students:

1. Zafrin Sultana - 1st Prize In drama (group prize) in 28<sup>th</sup> Inter University National Youth Festival
2. Atanu Das - 3rd prize in classical dance (bharatnatyam dance) (Solo) in 28<sup>th</sup> Inter University National Youth Festival

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.**

**Seminars**

1. National Seminar on 'Global Economic Crisis: HR Challenges' in collaboration with the MBA Alumni Association, held on 26.04.2009. Funded by(Partly):Unassigned grant of UGC (through Kalyani University)

2. National Seminar on 'Knowledge Management: Issues and Perspective' organized jointly with Department of Library & Information Science held on 25.03.2010  
Funded by(Partly):Unassigned grant of UGC (through Kalyani University)
3. Seminar on "Investor Awareness" in collaboration with the Institute of Company Secretaries of India (ICSI), Eastern India Regional Office (EIRO) and under the sponsorship of Ministry of Corporate Affairs, Govt. of India on 22.11.2010. Funded by: Ministry of Corporate Affairs, Govt. of India
4. National Seminar on 'Advancement in Management and Related Issues' held on 22-23 Nov, 2012. Funded by(Partly):Unassigned grant of UGC (through Kalyani University)
5. Seminar on 'Investor Awareness' in collaboration with the Institute of Company Secretaries of India (ICSI), Eastern India Regional Office (EIRO) and under the sponsorship of Ministry of Corporate Affairs, Govt. of India held on 11.03.2014. Funded by: Ministry of Corporate Affairs, Govt. of India

### Workshops

1. Workshop on ESOP & Related Issues" held on March 19, 2010. Funded by: AICTE
2. Workshop on Syllabus: Coverage & Relevance held on September 17, 2014. Funded by: University of Kalyani

### 31. Code of ethics for research followed by the departments

The Department recognises its responsibility to the society to ensure all research activities are conducted in accordance with the highest ethical standard. It is a continuous endeavour to motivate the faculty and students to avoid plagiarism and ensure privacy of data when committed. No research in this department comes under the purview of animal/human ethics committee.

### 32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage (on average)	
		Male	Female	Male	Female
MBA (2015-17)	27	9	8	-	-
DHHM (2015-16)	6	1	3	-	-
MBA (2014-16)	52	18	5	100%	100%
DHHM (2014-15)	14	6	3	100%	100%

### 33. Diversity of students (2015-16)

Name of the Programme (refer to question no. 4)	% of students from the Same university	% of students from other universities within the State	% of students from universities outside the State	% of Students from other countries
MBA	11.76%	88.24%	-	-
DHHM	-	100%	-	-
Ph.D.	25%	62.5%	-	12.5%
MBA(2014-15)	4.35%	86.95%	8.70%	-
DHHM(2014-15)	-	100%	-	-
MBA (2013-14)	8.34%	66.66%	-	25%
MBA (2012-13)	8.70%	78.27%	-	13%
MBA (2011-12)	11%	74%	-	14.85%

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details categorywise.**

NET – 04; SET- 1; Banking Service- 15 (Approx)

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	-
PG to Ph.D.	2%(approx.)
Ph.D. to Post –Doctoral Employed	-
<input type="checkbox"/> Campus selection	-
<input type="checkbox"/> Other than campus recruitment	95%(approx)
Entrepreneurs	3% (approx)

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	40%
from other universities within the State	40%
from universities from other States from	20%
universities outside the country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :**

One

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library: Library Facility is centralized
- b) Internet facilities for staff and students : 100%
- c) Total number of class rooms : 04
- d) Class rooms with ICT facility : 01
- e) Students' laboratories : 01 (Computer Lab)
- f) Research laboratories : Nil

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university: 03
- b) from other institutions/universities 09

**40. Number of post graduate students getting financial assistance from the university.**  
Nil

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

YES. Academic Expert Committee was formed where interaction with faculty members of the department and outside experts are considered. Student feedback is taken by conducting workshop in presence of external expert.

**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching – learning–evaluation? If yes, how does the department utilize the feedback?

Yes. The feedback is collected through discussion in the meeting of Academic Expert Committee.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Students provide feedback at the end of each semester. Feedbacks are used in syllabus revision, class designing and guest faculty selection.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? No

**43. List the distinguished alumni of the Department (maximum 10) As per Annexure VII**

**44. Give details of student enrichment programmes (speciallectures / workshops / seminar) involving external experts.**

**Seminars**

1. National Seminar on 'Global Economic Crisis: HR Challenges' in collaboration with the MBA Alumni Association, held on 26.04.2009
2. National Seminar on 'Knowledge Management: Issues and Perspective' organized jointly with Department of Library & Information Science held on 25.03.2010
3. Seminar on "Investor Awareness" in collaboration with the Institute of Company Secretaries of India (ICSI), Eastern India Regional Office (EIRO) and under the sponsorship of Ministry of Corporate Affairs, Govt. of India on 22.11.2010
4. National Seminar on 'Advancement in Management and Related Issues' held on 22-23 Nov, 2012.
5. Seminar on 'Investor Awareness' in collaboration with the Institute of Company Secretaries of India (ICSI), Eastern India Regional Office (EIRO) and under the sponsorship of Ministry of Corporate Affairs, Govt. of India held on 11.03.2014.

**Workshops**

1. Workshop on ESOP & Related Issues" held on March 19, 2010.
2. Workshop on Syllabus: Coverage & Relevance held on September 17, 2014.

**Extension Lectures**

1. Extension Lecture held on 13.12.2013.  
Title: Justifying Six Sigma Projects in Manufacturing.  
Speaker: Prof. T. P. Bagchi, Director of Narsee Monjee Institute of Management Studies, Shirpur.
2. Seminar Lecture held on 18.12.2013.  
Title: Corporate Stocks and Issues.  
Speaker: Mr. Avik Sankar Gupta, National Stock Exchange, India.
3. Extension Lecture held on 24.12.2013  
Title: Determinant of Happiness: A Panel Data Analysis.  
Speaker: Prof. Girijasankar Mallik, University of Western Sydney, Australia.

**45. List the teaching methods adopted by the faculty for different programmes.**

Seminars, Role playing, Group Discussion, Individual and Group Presentations, Field Survey and Project Dissertation are the methods that are in practice.

Some of the other innovative methods of teaching adopted by our teachers include the use of LCD and internet based assignments.



**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Through regular feedback of the students at the end of each semester.

**47. Highlight the participation of students and faculty in extension activities.**

The department has organized two Investor awareness Programmes for spreading financial literacy and to fulfil its obligation to the larger Society. In those programmes peoples from different section of the Society participated. Faculty members have acted as resource person of SC/ST cell and also helped Distance Learning Cell in Examination related activities.

**48. Give details of “beyond syllabus scholarly activities” of the department.** Nil

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Departmental research activities extend the frontier of knowledge in specific areas of finance, marketing and I.T. In particular, our contribution in generation of new knowledge is important in the following areas:

- ESOP and relates issues
- Interim Financial Reporting
- Market reaction on stock splits
- Determinants of generation of NPA
- Exploring new dimensions of Cloud computing and big data
- Sustainability of MSME and Retail brands
- Exploring the new field like Mathematical Finance

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

1. All faculty members (**except one**) are Ph.D. holders and are actively engaged in research.
2. Active interface for academic and industry is maintained. There is 8 week internship in regular MBA course as well as in DHHM course.
3. The Department has a well maintained Computer Lab.
4. Department has a well-equipped conference hall.
5. Extension Lectures are organized at regular intervals.

**Weakness:**

1. Shortage of faculty members, hence, teacher-student ratio is poor. Two vacant teaching post are there
2. Shortage of class rooms.
3. Absence of smart class rooms.
4. Vertical expansion of the Department is pending since long time back.
5. Lack of adequate number of faculties hinder the scope of applying for research projects (e.g. SAP).

**Opportunities:**

1. A large proportion of the students are eager to pursue higher studies and research.
2. Department is surrounded by enough green fields which can be utilized for beautification.
3. Most of the students are placed in Industry / Academic Institution.

**Challenges:**

1. Many students are first generation learner.
2. Developments of communication skill of students as most of them are having vernacular background.
3. Running the courses with the help of outside guest faculty members as the University is situated in a remote place.

**52. Future plans of the Department**

The future plans of action of the Department are to start Management Development Programmes (MDPs), Faculty Development Programmes (FDPs) and Consultancy Cell. The Department is looking forward to Authorities for augmentation of its faculty strength which is a major constraint for further progress. The Department will also strive to increase the intake capacity and also planning to carry out socially relevant major & minor Projects. The Department is also planning to start integrated B.Tech. MBA programme.

Organization of seminars, training workshop & short term courses are some other planned activities.

**Annexure- I****Participation of the Department in the Courses offered by other Departments**

Name of the Faculty	Subject	Name of the Department
Professor SatyajitDhar	Global Warming	Environment Management
Professor Manas Kumar Sanyal	B.Tech Computer Science	DETS Statistics
Professor IsitaLahiri	Economics	Molecular Biology & Biotechnology

**Conference Attended**

Serial No.	Date	Title, organiser, place	Remarks (paper presented/ session chaired/ keynote speaker/ participant/ organiser etc)
01	3-5 December, 2010	E-Governance Projects in West Bengal – Useful tool to Capture and Analysis Data for Better Governance 64 <sup>th</sup> Annual Conference of the Indian Society of Agricultural Statistics,BCKV and KU	Paper presented
02.	24-25 December, 2011	International Migration and Skilled Labour Relation an Ecological Imbalance: Challenges to World Labour Industry (Co-author : Samir Chandra Das, Amit Kr. Banerjee, Sudhansu Das, Sukanta Majumdar, Kanak Kanti Bagchi)Integrated Research and Development Foundation International Seminar <i>On</i> Global Environmental Issues: Challenges To Industry, Ecology And Society Kalyanai Law College	Paper presented

Serial No.	Date	Title, organiser, place	Remarks (paper presented/ session chaired/ keynote speaker/ participant/ organiser etc)
03.	28-29, December, 2011	<i>E-Governance Initiative in West Bengal: A Comprehensive Study</i> (Co- author : Sudhangsu Das and Sajal Bhadra)The 7th International Conference on <i>IT Applications and Management:Jaipur</i>	Paper presented
04.	9-10 March, 2011	Explaining the Causal Relations between self-enforced training and driving factors behind its success: A case study on IT companies in Kolkata mega poli(Co- author: Soma Biswas)Conference- Department of Management- University of North Bengal	-
05.	23-25 November, 2012	4 <sup>th</sup> International Conference on Information Technology & Business Intelligence(ITBI)-2012	Paper presented
06.	13-15 December, 2013	48 <sup>th</sup> Annual Convention On ICT& Critical Infrastructure, CSI, Visakhapatnam	Session chaired
07.	13-15 December, 2013	48 <sup>th</sup> Annual Convention On Ict& Critical Infrastructure, Csi, Visakhapatnam	Paper presented
08.	12 -13 December,2013	Annual Int. Research Conf. On Shaping the Future of Business and society, Simsarc13, Symbiosis, Pune	Paper presented
09.	8-9 January, 2015	Information system Design and Intelligent Applications 2015“ (INDIA-2015) at University of Kalyani during	Organizing Chair
10.	24–26 July 2015	2 <sup>nd</sup> International Conference on Computer & Communication Technologies(IC3T-2015) at CMR Technical Campus, Hyderabad	Resource Person

#### Paper Presented in Conference:

1. “Project Shakti: A Private-Public Partnership Model of Consumer Welfare in Rural India”, presented in National Seminar on Rural Consumers in Globalizing Market: Vulnerability and Choice, organized by Department of Sociology, University of Kalyani on December 15-16, 2010.
2. “Sustainability of Eco-clothes: An Economic Exposure”, presented in International Seminar on Global Environmental Issues: Challenges to Industry, Ecology and Society, organized by IRDF in collaboration with SKAIL, Kalyani on 24-25 December, 2011.
3. “Unified Demand-Supply Chain Management: Beginning the Journey from Destination”, presented in International Conference on Business Applications and Management Issues, organized by Faculty of Management Studies, Dr. B.C. Roy Engineering College, Durgapur on January 10-11, 2012.
4. “Private Label Brands: Are They Eclipsing Manufacturer-owned Brands?”, presented in National Conference on Sustainable Business Growth and Modern Management, organized by Centre for Management Studies, JIS College of Engineering, Kalyani on April 27-28, 2012.
5. “Customers’ Attitude towards M-Commerce: Crawling with Technological Shy”, presented in International Seminar organized by ShriShankaracharya Institute of Tech. and Management, Bhilai on 21-23 June, 2012.

6. “Sublimating Consumer Behaviour by Celebrities’ Warmth: The icing on Retail Cake in Organized Apparel Sector”, presented in National Conference on Emerging Business Opportunities & Challenges, organized by R. V. Institute of Management, Bangalore on March 22-23, 2013.
7. “Corporate Social Responsibility: Face Behind the Mask”, presented in International HR Conference, organized by Department of MHRM, IISWBM, Kolkata on 6-7 February, 2014.
8. “Apparel Promotion: Pivoting Fashion Behaviour”, presented in Globsyn Management Conference, organized by Globsyn Business School, Kolkata on 6 June, 2014.
9. “Surfacing Fashion Behaviour through Determining Customer Preference for Apparel”, presented in National Conference on Advances in Business Research and Management Practices, organized by Calcutta Business School on 5-6 December, 2014.
10. “Gender-specific FMCG Products and related Marketing Strategies with Special Reference to Indian FMCG Market”, presented in National Conference on Consumer Justice in Globalizing India: Challenges and Choices, by Department of Sociology, University of Kalyani on November 19-20, 2015.

### Annexure VI

#### List of Distinguished Alumni of the Department

Sl No.	Name	Designation	Company Name	Batch
1.	Sudipta Chatterjee	Senior Manager	Yes Bank, Raipur	2001-03
2.	Shantanu Ray	Manager (Sales)	Aditya Birla Chemicals Ltd	2001-03
3.	Prasenjit Saha	Sales Manager (South India)	Jubilant Life Sciences Ltd.	2001-03
4.	Anupam Mondal	Manager & Operations Head	Axis Bank Ltd, Lenin Sarani Branch	2004-06
5.	Debabrata Lodh	Manager	Godrej & Boyce Manufacturing Company Limited	2004-06
6.	Rahul Banerjee	Software Engineer	VISA INC, California U.S.	2005-07
7..	Dhrubojyoti Gangopadhyay	Dy. Sales Manager	Lafarge India Pvt Ltd.	2005-07
8.	Tapas Kumar Dutta	Manager	IDBI Bank	2006-08
9.	Gunjan Chakraborty	Officer	United Bank of India	2006-08
10.	Anupam Ranjan	Officer (HR & Admin)	Simplex Infrastructures Ltd.	2007-09
11.	Sumanta Banerjee	Sr. Officer	Bandhan Financial Services Pvt. Ltd.	2008-10

The logo of Kalyani University is a square emblem. At the top, a horizontal band contains the word 'KALYANI' in capital letters, flanked by two circular symbols containing a stylized cross. The central part of the emblem features a circular design with a lotus flower in the center, surrounded by vertical lines and other decorative elements. At the bottom, another horizontal band contains the word 'UNIVERSITY' in capital letters, also flanked by the same circular symbols.

# DEPARTMENT OF CHEMISTRY

1. **Name of the Department** : Chemistry
2. **Year of establishment** : 1961
3. **Is the Department part of a School/Faculty of the university?** Yes, Faculty
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**

PG( With Analytical, Inorganic, Organic and Physical Specialization) and Ph.D.

**5. Interdisciplinary programmes and departments involved :**

Some of the faculty members are involved in research work with colleagues from other departments. For example, Dr. K. Ghosh has been collaborating with Dr. U. Ghosh of Dept. of Biochemistry and Biophysics, with Prof. A. R. Khuda-Baksh of Dept. of Zoology and with Dr. S. Bhattacharyya of Dept. of Physics. Dr. S. C. Debnath has been collaborating with Dr. T. Pal Majumdar of Dept. of Physics. Prof. A. P. Chattopadhyay has been collaborating with Dr. S. Mukherjee of Dept. of Environmental Science and Prof. A. Datta of Dept. of Botany. Dr. N. C. Saha has been collaborating with Dr. U. Ghosh, Dept. of Biochemistry and Biophysics and with Dr. Jayanta Biswas of Dept. of Ecological Engineering & Environmental Management. Other faculty members are also engaged in collaborative programs with colleagues in this and other institutions.

**6. Courses in collaboration with other universities, industries, foreign institutions, etc. Ph. D. Course in collaboration with DAAD Fellowship in Germany,**

**7. Details of programmes discontinued, if any, with reasons:** N/A

**8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:**

Semester and Choice Based Credit System

**9. Participation of the department in the courses offered by other departments:**

Faculty members are involved as Resource Person in the courses offered by other departments like Microbiology, Biotechnology, Environmental Science (Courses like PG, Refreshers Course, Workshop).

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/ Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	3	1	11
Associate Professors	7	5	0
Asst. Professors	15	12	7
Others	1	0	0

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Sakti Pada Das	M.Sc., Ph.D.	Professor	Organic	31	07
Debasis Chatterjee	M.Sc., Ph.D.	Professor	Analytical	31	14
Mitali Sarkar	M.Sc., Ph.D.	Professor	Analytical	31	12
Asoke Prasun Chattopadhyay	M.Sc., Ph.D.	Professor	Physical	26	06
Shital Kumar Chattopadhyay	M.Sc., Ph.D.	Professor	Organic	16	15
Surajit Chattopadhyay	M.Sc., Ph.D.	Professor	Inorganic	24	04
Nilashis Nandi	M.Sc., Ph.D.	Professor	Physical	15	03
Brindaban Roy	M.Sc., Ph.D.	Professor	Organic	19	05
Swati De	M.Sc., Ph.D.	Professor	Physical	16	07
Kumares Ghosh	M.Sc., Ph.D.	Professor	Organic	19	13
Manirul Islam	M.Sc., Ph.D.	Professor	Physical	16	11
Manoranjana Jana	M.Sc., Ph.D.	Assistant Professor	Organic	08	05
Manindranath Bera	M.Sc., Ph.D.	Assistant Professor	Inorganic/Analytical	05	03
Swarup Kumar Chattopadhyay	M.Sc., Ph.D.	Assistant Professor	Inorganic	05	03
Subhas Chandra Debnath	M.Sc., Ph.D.	Assistant Professor	Physical	11	04
Tapas Majumdar	M.Sc., Ph.D.	Assistant Professor	Physical	07	01
Kalachand Mahali	M.Sc., Ph.D.	Assistant Professor	Inorganic	04	00

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :**

Emeritus Professor-Prof. K. C. Majumdar (2011-2013)

**13. Percentage of classes taken by temporary faculty –**

M. Sc. – 1% class taken by temporary faculty

**14. Programme-wise Student Teacher Ratio**

M. Sc. – Teacher to student ratio: 1:7

Ph. D. – Teacher to Research Scholar ratio: 1:5

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Type of staff	Sanctioned	Filled	Actual
Technical	8	6	6
Administrative	21	11	11

**16. Research thrust areas as recognized by major funding agencies**

DST – FIST: Design, synthesis and characterization of important compounds of current interest

UGC – SAP:

DRS-I: Design, Synthesis, Properties evaluation of a spectrum of useful materials.

DRS-II: Computation and experimental study of molecules of biological and theoretical interest.



**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

- (a) Ongoing projects (National) 10  
 (b) Ongoing projects (International) 1  
 (c) Total grants received 3.70 Crore

Name	Project title	Funding agency	Amt. (Rs. Lakhs)	Duration
Prof. Debashis Chatterjee	To assess the effectiveness of a water purifier designed to reduce the levels of arsenic in drinking water and its consequent presence in the urine of the subjects	School of Tropical Med. (UK), KIIT, Unilever (UK)	34.00	2015-18
Prof. Shital K. Chattopadhyay	Diversity oriented synthesis of some naturally occurring alkaloids & analogues thereof	DST	51.88	2013-16
	Diversity oriented synthesis of aminocarba-sugars of biological relevance	CSIR	18.78	2014-16
Prof. Surajit Chattopadhyay	Design & synthesis of new multidentate azo ligands & their transition metal complexes: studies on catalytic, electron transfer & cytotoxic properties	DST	20.00	2012-15 (completed 16.07.2015)
Prof. Nilashis Nandi	Computational study of the structure and dynamics of aminoacyl tRNA synthetases	DST	50.90	2013-16
Prof. S. Manirul Islam	Development of some new transition metal complexes immobilized on polystyrene surface & studies of their activities towards various catalytic reactions	CSIR	15.00	2012-15
	Development of some new immobilized recyclable chiral catalysts: applications, kinetics & mechanistic studies	DST	28.00	2013-16
	A Novel approach for the synthesis polymer-supported recyclable catalysis and studies of their applications under green Chemical pathway.	UGC	14.00	2015 To 2018
Dr. Manindra-nath Bera	New dinuclear 3d transition metal complexes: synthesis, characterization & catalytic activity towards glycosidic hydrolysis reactions	CSIR	19.00	2013-16
Dr. Swarup K. Chattopadhyay	The chemistry of dirhenium incorporating the guanidinate ligands: from organometallic to supramolecular chemistry and possible applications	DST	40.00	2011-15 (completed March, 2015)
Dr. Tapas Majumdar	Spectroscopic & computational studies of some optical sensors for metal ions & anions	UGC	6.00	2013-15
	Development of Sensors for the Selective & Ratiometric Sensing of Anions and their Applications as Molecular Logic Devices: A Combined Study of Spectroscopy and Computational Chemistry	DST, New Delhi	31.56	2015-2018
Prof. Swati De	Synthesis of novel TiO <sub>2</sub> nanomaterials and nanocomposites employing gamma irradiation and other techniques	UGC-DAE CRS	1.00	2014-17

Name	Project title	Funding agency	Amt. (Rs. Lakhs)	Duration
	Metal-based fluorescent Nanoparticles in Bio-mimicking and Biologically Relevant assemblies- Synthesis, Characterization and Possible Applications	S.E.R.B, New Delhi	54.80	2015-2018
Dr. Subhas Chandra Debnath	Effect of nano fillers on the reinforcement of natural and synthetic rubber	DST- Govt. Of West Bengal	11.93	2015 - 2018
Prof. Kumaresh Ghosh	Design and synthesis of new pyrrole-based charged molecular architectures in anion recognition	DST, Govt. of West Bengal	13.98	April 2015 to March 2018

**18. Inter-institutional collaborative projects and associated grants received:** Nil

- a) National collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

DST-FIST : 2.25 Crore      DST-FIST(West Bengal): 8 Lakhs  
UGC-SAP:                              DRS : 7.2 Lakhs

**20. Research facility / centre with**

- state recognition: DST-FIST, West bengal
- national recognition DST-FIST and UGC-SAP
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies : N/A**

## 22. Publications:

- ☐ Number of papers published in peer reviewed journals (national / international) : 350 (See Annexure – I)
- ☐ Monographs 01
- ☐ Chapters in Books 05
- ☐ Edited Books 01
- ☐ Books with ISBN with details of publishers 02
- ☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- ☐ Citation Index – range / average : Average 335
- ☐ SNIP
- ☐ SJR
- ☐ Impact Factor – range / average: 0.1-12.11
- ☐ h-index Average 13

**23. Details of patents and income generated : Nil**

**24. Areas of consultancy and income generated: N/A**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad**

1. Prof. Swati De Visited the Chemical Physics Department, Lund University, Sweden during June 2011

October 2011 as part of the SIDA collaborative research program funded by the Swedish Research Council, Stockholm.

2. Prof. S. K. Chattopadhyay

Visited University of London as Royal Society sponsored visiting fellow for ten weeks in 2011.

**26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

- a) National committees

Professor Debashis Chatterjee:

1. Member Arsenic Task Force , National .
2. RAB Member ,CSIR , Govt of India
3. Technical Evolution Committee ,PHED, Govt of India.
4. RGNDWM ,Govt of India

Professor Shital K Chattopadhyay

5. Served as member DST-NER Research Committee, Govt of India 2008-2013
6. Served as member in Confidential work of CSIR, Govt of India
7. Served as member of the Peer Team of NAAC

- b) International committees: Nil

- c) Editorial Boards

1. Chief Editor for Newsletter of Indian Photobiology Society
2. Professor Shital K Chattopadhyay, Editorial Board member of Signpost Journal of Organic Chemistry

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

1. Faculty members participate in Refreshers', Orientation courses and workshops: regularly.
2. Several faculty members participate and make presentations in national and international seminars and symposia.

**28. Student projects**

- a. percentage of students who have done in-house projects including inter-departmental projects : 100%
- b. percentage of students doing projects in collaboration with other universities /industry / institute: Nil

**29. Awards / recognitions received at the national and international level by**

- c. Faculty:

Fellow of West Bengal Academy of Science and Technology – 03

**d. Doctoral / post doctoral fellows**

INSA-Royal Society Visiting fellowship

DAAD, Germany fellowship

Marie Curie fellowship, France

Humbolt fellowship, Germany

JSPS fellowship, Japan

DST Women Scientist award

**e. Students****30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any.**

Name of the Seminars	Funding agency	Year
i) National Seminar on current trends in chemistry-V	UGC-SAP	2011
ii) National Seminar on current trends in chemistry-VI	UGC-SAP	2012

**31. Code of ethics for research followed by the departments :**

Research schemes and projects taken up by the faculty members and students are transparent to the departmental bodies. Hence there is no chance of overlap and conflict. Though there is no information or allegation of plagiarism, but in case of any such allegation the departmental bodies would take necessary steps.

**32. Student Profile programme-wise:**

Student profile Name of the Programme (refer to question no. 4)		Applications Received	Selected		Pass percentage	
			Male	Female	Male	Female
2015	M. Sc.	400	43	17	Continue	Continue
	Ph.D.	42	10	1	Continue	Continue
2014	M. Sc.	398	41	16	Continue	Continue
	Ph.D.	30	7	2	Continue	Continue
2013	M. Sc.	410	36	19	100	100
	Ph. D.	35	7	1	Continue	Continue
2012	M.Sc.	350	27	31	100	100
	Ph.D.	32	6	0	Continue	

**33. Diversity of students**

Name of the Programme (refer to question no. 4)		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
2015	M. Sc.	70	30	NIL	NIL
	Ph. D.	70	30	NIL	NIL
2014	M. Sc.	72	28	NIL	NIL
	Ph. D.	80	20	NIL	NIL
2013	M. Sc.	75	25	NIL	NIL
	Ph. D.	75	25	NIL	NIL

2012	M. Sc.	60	40	NIL	NIL
	Ph. D.	85	15	NIL	NIL

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Civil Service and Defence Service	NIL
NET, SET, GATE	More than 20%
Other Competitive Exam.	More than 35%

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	50%
PG to M.Phil.	5%
PG to Ph.D.	15%
Ph.D. to Post-Doctoral	20%
Employed	
<input type="checkbox"/> Campus selection	5%
<input type="checkbox"/> Other than campus recruitment	50%
Entrepreneurs	1%

### 36. Diversity of staff

Percentage of faculty who are graduates Of the same university	22.22
From other universities within the State	72.23
From universities from other states from	5.55
Universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:**

One, Dr. Kalachand Mahali was awarded Ph.D. Degree in Dec. 2014.

### 38. Present details of departmental infrastructural facilities with regard to

- Library : Departmental library has been shifted to central facility
- Internet facilities for staff and students : Every faculty members has internet facility in his/her office; Chemistry office has internet. Central computer Facility may be used by students and research scholars. Research scholars also use facility of faculty members.
- Total number of class rooms: Five
- Class rooms with ICT facility : None
- Students' laboratories: Seven Laboratories
- Research laboratories: Each faculty member has research laboratory (20)

### 39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university: 31
- from other institutions/universities: 10

Sl No.	Name of research scholar	Name of supervisor	Date of admission
--------	--------------------------	--------------------	-------------------

SI No.	Name of research scholar	Name of supervisor	Date of admission
1.	Subrata Biswas	Prof. Mitali Sarkar	20.01.2015
2.	Suman Sil	Prof. Shital K. Chattopadhyay	01.01.2015
3.	Shyamasankar Mandal	Prof. Shital K. Chattopadhyay	20.01.2015
4.	Paritosh Mandal	Prof. Surajit Chattopadhyay & Dr. J. L. Pratihari, Sripat Singh College, Jiaganj	20.01.2015
5.	Gita Pai	Prof. Asoke P. Chattopadhyay	20.01.2015
6.	Swastika Dhar	Prof. Asoke P. Chattopadhyay	20.01.2015
7.	Pravas K. Jee	Prof. Asoke P. Chattopadhyay	20.01.2015
8.	Krishnendu Tikadar	Prof. Brindaban Roy	11.11.2014
9.	Nilotpal Sinha	Prof. Brindaban Roy	20.01.2015
10.	Subhendu Mandal	Prof. Kumares Ghosh	25.07.2014
11.	Chiranjit Pati	Prof. Kumares Ghosh	25.07.2014
12.	Md. Mominul Islam	Prof. S. Manirul Islam	25.07.2014
13.	Sourav Naskar	Prof. S. Manirul Islam	25.07.2014
14.	Binoy K. Ghosh	Dr. Nitis C. Saha	20.01.2015
15.	Suvendu Paul	Dr. Tapas Majumdar	20.01.2015
16.	Piue Ghosal	Prof. Asit R. Sarkar	24-06-2013
17.	Paritosh Dhara	Prof. Sakti Pada Das	12-12-2013
18.	Sandipan Barman	Prof. Debashis Chatterjee	19-11-2013
19.	Srimanta Marjit	Prof. (Mrs) Mitali Sarkar	29-04-2013
20.	Soumen Saha	Prof. (Mrs) Mitali Sarkar	04-12-2013
21.	Rubi Ghosh	Prof. (Mrs) Mitali Sarkar	04-12-2013
22.	Anupama Dhara	Prof. (Mrs) Mitali Sarkar	29-04-2013
23.	Subhankar Ghosh	Prof. Shital K. Chattopadhyay	31-12-2013
24.	Palash Mondol	Prof. Surajit Chattopadhyay	08-04-2013
25.	Uttam Das	Prof. Surajit Chattopadhyay	21-01-2014
26.	Titiksha Das	Prof. Surajit Chattopadhyay	29-04-2013
27.	Saheb Dutta	Prof. Nilashis Nandi	25-09-2013
28.	Ghanashyam Roy	Prof. Asoke P. Chattopadhyay	29-04-2013
29.	Monojit Sarkar	Dr. (Mrs.) Swati Dey	08-04-2013
30.	Suman Mondal	Dr. (Mrs.) Swati Dey	20-05-2013
31.	Atanu Panja	Dr. Kumares Ghosh	04-12-2013
32.	Susmita Roy	Dr. Sk. Manirul Islam	19-11-2013
33.	Rostam Ali Molla	Dr. Sk. Manirul Islam	11-09-2013
34.	Ram Chandra Dey	Dr. Sk. Manirul Islam	30-04-2013
35.	Usha Mandi	Dr. Sk. Manirul Islam	05-02-2014
36.	Manan Saha	Dr. Nitis Chandra Saha	29-04-2013
37.	Prasanta Pramanik	Dr. Nitis Chandra Saha	05-12-2013
38.	Samir Pyne	Dr. Nitis Chandra Saha	04-12-2013
39.	Shobhraj Halder	Dr. Manindra Bera	06-03-2014
40.	Mrinal Kanti Ghosh	Dr. Swarup K. Chattopadhyay	06-05-2013
41.	Sumit Das	Dr. Subhas Chandra Debnath	04-12-2013

40. Number of post graduate students getting financial assistance from the university:

5

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : N/A

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

This is done during syllabus modification / upgradation, not usually otherwise. The syllabus is modified to a large extent based on such feedback.

**ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

This is part of the M.Sc. curriculum. Feedbacks from the Students are collected regarding teaching and learning process. This is kept with the teachers for their own improvement / adjustment.

**iii. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

Alumni of this department who are holding position in academic institution and industry visit the department in regular intervals. They deliver lectures indicating the contribution of this department for building up their carrier. The suggestions of these alumni are taken into consideration during syllabus revisions, designing laboratory experiments and further utilization of existing resources.

**43. List the distinguished alumni of the department (maximum 10)**

- Prof. Mihir K. Chaudhury, ex-VC, Tezpur University
- Prof. Abu Taleb Khan, Vice-Chancellor, Alia University.
- Prof. Biswapati Mukherjee, Institute of post graduate medicine, Kolkata
- Dr. Bachaspati Roy, Research Advicer, ICI Ltd. Detroit, USA
- Prof. Subhas C. Ray, Senior Professor, Organic Chemistry Division, IACS
- Sayan Lahiri, Senior Manager, Hewlett-Packard, USA
- Prof. Paresh C. Roy, Jackson State University, Kentucky, USA
- Prof. Swapan K. Pati, Bhatnagar Awardee, JNCASR, Bangalore
- Prof. Jitendra K. Bera, Swarna jayanti Swardee, I.I.T., Kanpur
- Prof. Swadeshmukul Santra, University of Central Florida, USA
- Dr. Amitava Paramanik, Chemistry Expertise Director, R&D Centre, Hindustan Unilever Ltd.
- Dr. Mahhuya Ghosh, Associate Proffessor, University of Toranto, Kanada.
- Dr. Sharbari Ray, Global Manager(Research) Astrzeneca Ltd., Switzerland
- Dr. Kanchan Das, General Manager (Production) ONGC Ltd.
- Dr. Asim Ray, Senior Research Manager, Astrzeneca Ltd. Sweden.
- Dr. Swadhin Mandal, Professor, IISER, Kolkata.
- Dr. Susmita Bose. Washington State University, USA

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Date	Speaker	Institute	Topic
03.04.12	Dr. Pradip Kumar Acharya, Scientist	Shanta Biotechnics Ltd, Hyderabad	Applications of Mass Spectrometry
20.04.12	Prof Miegual de la Guardia	University of Valencia, Spain	Green Analytical Chemistry
	Prof Susmita Bose Prof Amit banerjee	Washington State University, USA	Nano particle Research & 3D Printing
30.04.13	Dr Suhrabrata Sen	School of natural Sciences, Shiv Nadar University, Noida	The World of Diversity Oriented Synthesis
19.07.13	Dr. Swadesh Mukul Santra	Burnett School of Biomedical Sciences	Engineering & study of Nanomaterials for Bioimaging,



Date	Speaker	Institute	Topic
		Univ. of Central Florida, USA	Biosensing & Crop Protection
03.09.13	Dr. Susmita Das, PDF	Louisiana State Univ, USA	Biomedical Applications of Fluorescent GUMBOS & nano GUMBOS
30.09.13	Dr. Suman Chakraborty, Ramanujan Fellow	Physical & Material Chem Div., NCL, Pune	Computational Modelling as an Emerging Tool in Chemistry, Physics & Biology
	Dr Debasree Ghosh, Senior Scientist	Centre for Material Characterisation, NCL, Pune	
01.10.13	Prof, J. J. Vittal	National Univ. of Singapore	Opportunities to do Ph.D at NUS
20.11.2015	Prof. C.Hartinger	Auckland University, newzealand	Drug interaction

**45. List the teaching methods adopted by the faculty for different programmes. :**

Chalk Duster method, Power point presentation, Industrial Visit, Seminar Lectures etc.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

We notice the change of world scenario and from the feedback of our ex students.

**47. Highlight the participation of students and faculty in extension activities.**

Students and faculty members regularly participate in blood donation camp, sports, NSS and cultural activities of the university.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

Reunion, cultural programme, Seminar, symposium, NSS.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

Application of low cost materials along with technofeasibility and ecofriendliness to remove a range of substances.

Synthesis of new molecules of biological and material importance.

A relatively new effort is the asymmetric synthesis of complex biologically active products of natural origin.

Bio-physical studies on drug receptor interaction.

Studies on achiral and chiral catalysis. Design and synthesis new metal based homogenous and heterogenous catalysts.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Major strengths:**

- Current updated syllabus and semester system of study
- Dedicated, highly qualified and experienced faculty members.
- Reasonable infrastructure, integrated into teaching and research program
- Dedicated support staff
- Selection of students from a large no. of applicants

**Major weaknesses:**

- (a) At present there is no smart class room in the department.
- (b) Need further improvement in infrastructure for state-of-art research and training programme.
- (c) Locational disadvantage.
- (d) Lack of communication skills of the students in terms of language.
- (e) Inadequate access to available data bases.

**Opportunities:**

- (a) Recruitment in the vacant position will increase the opportunity to augment the quality of teaching and research.
- (b) The students get in house opportunity to upgrade knowledge and skills which can be boosted further through special classes and lectures as and when required.
- (c) There is opportunity to enhance the outreach programs.
- (d) The faculty members may take further initiatives to bring more funds.
- (e) Opportunities are there to increase the students' intake if the facilities can be augmented adequately.

**Challenges:**

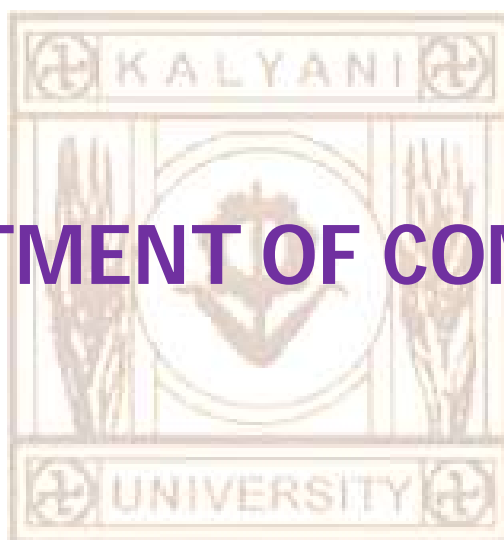
- (a) Challenges may be taken to impart need based knowledge to the students to compete more effectively in International level.
- (b) Publication of high quality research articles, consistently, in higher quality journals to increase the average impact factor and other indexes.
- (c) To concentrate, partially, on application oriented research so that patents can be filed.
- (d) Consultancy and generation of funds through that may be taken as a challenge.
- (e) Initiative may be taken towards appropriate processes so that the students may qualify more in national/international level examinations/ selections.

52.

**52. Future plans of the department.**

- 1) Department has planned for upgrading infrastructural facility.
- 2) Laboratories and instrumental facilities for the state-of-art research.
- 2) To setup centres in the areas of current interest.

# DEPARTMENT OF COMMERCE



1. **Name of the Department :** COMMERCE
2. **Year of establishment :** 1978
3. **Is the Department part of a School/Faculty of the university?-** Faculty of Arts & Commerce
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D. Sc., D.Litt., etc.) :** PG, M.Phil., Ph.D., D.Litt.
5. **Interdisciplinary programmes and departments involved- Ph.D. Course work, Business Administration.**
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** None
7. **Details of programmes discontinued, if any, with reasons :** None
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Semester
9. **Participation of the department in the courses offered by other departments:**  
Ph.D. Course work, Business Administration.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)-**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	2	4
Associate Professors	1	1	2
Asst. Professors	5	5	2
Others	-	-	-
Total	8	8	8

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance-**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Professor Sunil Kr. Gandhi	M.Com., FCA	Professor	Accounting & Finance; Computer Application	29	Ph.D-12 (awarded-5 ) M.Phil-1
Professor Subhas Ch. Sarkar	M.Com., M. Phil. Ph.D.	Professor	Accounting & Finance	33	Ph.D-8 (awarded-1 ) M.Phil-1
Professor Subhamoy Das	M.Com., Ph.D.	Professor	Accounting & Finance	19	Ph.D-9 (awarded-1 ) M.Phil-2
Professor Amalendu Bhunia	M.Com., M. Phil. P.G.D.F.M., Ph.D.	Professor	Accounting & Finance	16	Ph.D-8 M.Phil-1
Dr. Debansu Das	M.Com., Ph.D., FCA AICWA	Associate Professor	Accounting & Finance	17	Ph.D-6 M.Phil-1

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Pradip Samanta	M.Com., Ph.D.	Associate Professor	Accounting & Finance	13	Ph.D-5 M.Phil-1
Dr. Biswambhar Mandal	M.Com., Ph.D., DCA	Assistant Professor	Accounting & Finance, Computer Application	14	Ph.D-7 M.Phil-1
Dr. Atreyee Pal	MA(Econ), Ph.D.	Assistant Professor	Economics & Econometrics	4	-

**12. List of Senior Visiting Fellows, adjunct faculty, emeritus professors-** None

**13. Percentage of classes taken by temporary faculty (programme-wise information)-**  
11% (in the current semester only)

**14. Programme-wise Student Teacher Ratio**

Course	Students	Teachers	Ratio
M. Com.	126	8	16:1
M.Phil.	8	8	1:1
Ph. D.	55	11	5:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

	Sanctioned	Filled	Actual
Academic support (technical) staff	NIL	NIL	NIL
Administration staff	3	3 (permanent Assistant-1, Junior Office attendant -1 and casual Sweper-1)	3 (permanent Junior Assistant-1, Office attendant -1 and casual Sweper-1)
Total	3	3	3

**16. Research thrust areas as recognized by major funding agencies-**

(a) Research thrust areas as recognized by major funding agencies- **Stock Market**

(b) Other thrust areas of research activities of the department include:

- (i) IFRS/ Corporate Financial Reporting
- (ii) Financial Management of different types of Enterprises
- (iii) Capital Market and Money Market
- (iv) Banking & Insurance
- (v) Public Sector
- (vi) E-commerce and Marketing
- (vii) Local Self Governments and Self Help Groups
- (viii) Jute & Textile
- (ix) Applied Econometrics

**17. Number of faculty with ongoing projects from (a) national (b) international funding agencies and (c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Name of the funding agencies	Principal investigator	Project title	Grant received
University Grant Commission, New Delhi	Dr. Amalendu Bhunia	“Associations among Gold Price, Crude Price and Stock Market – An Empirical Study of Indian Stock Exchanges”	Rs. 3,13,000

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration - NONE  
 b) International collaboration- NONE

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. - NONE**

**20. Research facility / centre with**

- State recognition - NONE
- National recognition - NONE
- International recognition - NONE

**21. Special research laboratories sponsored by / created by industry or corporate bodies- NONE**

**22. Publications:**

Publication by all faculties of the Department	Total No.
1. Books	9
2. Research papers-	
a) In National Journals	29
b) In International Journals	44
c) In Edited Volumes	45
3. Theses/ Monographs etc.	NIL
4. Academic Articles in Newspaper, Magazines etc .	NIL
5. Number listed in International Database	As per Details
6. Citation Index	List Attached
7. Impact Factor	List Attached

**Number listed in International Database –**

Scopus, International Social Sciences Directory, Google Scholar, EBSCO host (3 books and 48 Papers of **Dr. Amalendu Bhunia**)

**Citation Index-**

**Dr. Amalendu Bhunia** (1.4326 in the year 2013 and 1.1311 in the year 2014; Average Impact Factor – 1.41) Range – 1.1311 to 1.4326 in the last three years

(j) h-index – 10

Top of Form

Citation indices	All	Since 2010
Citations	234	228
h-index	10	10
i10-index	10	10

**23. Details of patents and income generated - NONE****24. Areas of consultancy and income generated - NONE****25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad - NONE****26. Faculty serving in****(a) National/ State Committees-**Professor Sunil Kumar Gandhi:

1. UGC Expert Team member for assessment of Autonomous Status of a College (2012).
2. CBSE Observer, AIPMT Examinations
3. Member of Selection Committees for Selection of teachers in Central Universities and State Universities.
4. National Executive Committee Member of Indian Accounting Association, and Secretary IAA-Kolkata Branch.
5. Member, Board of Research Studies, Vidyasagar University, WB.
6. Member, Board of Research Studies, University of Burdwan, WB. (up to 2013)

Professor Subhash Chandra Sarkar:

1. Member of Selection Committees for Selection of teachers in different State Universities.
2. Member, Board of Research Studies, University of Burdwan, WB.

**(b) International Committees-**Dr. Amalendu Bhunia

Member of the International Society for Development and Sustainability, Japan

**(c) Editorial Boards –**Professor Sunil Kumar Gandhi:

1. Member, Editorial Board, Vidyasagar University of Journal of Commerce.
2. Member, Editorial Board, Journal of Business and Economic Issues, BRSN College, WB.

Dr. Amalendu Bhunia:**Editor-in-Chief –**

- (1) Applied Economics and Business Review (U.S.A.), Print ISSN: 2333-8709 Online ISSN: 2333-8717
- (2) Universal Journal of Marketing and Business Research (Nigeria), ISSN: 2315-5000

**Editor –**

- (3) E3 Journal of Business Management and Economics (Nigeria), ISSN: 2141-7482
- (4) International Journal of Advancements in Research & Technology, ISSN: 2278 – 7763

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). - NONE****28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects - Nil
- percentage of students doing projects in collaboration with other universities industry / institute - Nil



**29. Awards / recognitions received at the national and international level by-  
Faculty-**

**Professor Sunil Kumar Gandhi**

Published two books through International Publishers -

**Professor Subhamay Das** has published three books through International Publishers:

**Professor Amalendu Bhunia** has been selected as Chief Editor in two International Journals:

**Doctoral / post doctoral fellows- NONE**

**Students- NONE**

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / International) with details of outstanding participants, if any.**

Date	Seminar type & Theme	Funding	Prominent Participants
27.03.2014 & 28.03.2014	National Seminar on Contemporary Issues in Accounting & Finance	University of Kalyani	(i) Professor B Banerjee, President, Indian Accounting Association Research Foundation (ii) Professor G Soral, General Secretary, Indian Accounting Association
20.11.2015	National Seminar on Emerging Issues in Accounting & Finance	Institute of Chartered Accountants of India & University of Kalyani	(i) CA V Murali, Chairman Board of Studies, ICAI, New Delhi. (ii) Professor Malayendu Saha, Vice-chairman, West Bengal State Council of Higher Education.

**31. Code of ethics for research followed by the departments-**

Transparent selection criteria are applied and transparent allocations of research supervisors are made. Strict vigilance on prevention of plagiarism is made. Moreover, the crucial rights of researchers are recognized and promoted as far as possible with the intention of creating an environment where research can flourish and high quality research outputs can be promoted through academic freedom, availability of a caring research environment with efficient policies, management, structures, support services and programmes, use of the department's facilities, services and resources for research.

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.Com.- 2014-15	110	54	15	90.9	100
M.Phil- 2014	29	4	4	100	100
Ph.D.- 2015	66	14	2		

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other Universities within the State	% of students from universities outside the State	% of students from other countries
M.Com.- 2014	60	38	1	1

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Civil Services Examination	0
Defense Services Examination	1
NET	6
SET	7
Other Competitive Examinations (Banking, Insurance, etc.)	Many but actual data not available

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	10%
PG to Ph.D.	4%
Ph.D. to Post-Doctoral	NIL
Employed	
<input type="checkbox"/> Campus selection	NIL
<input type="checkbox"/> Other than campus recruitment	Many but data not available
Entrepreneurs	Data not available

**36. Diversity of staff**

Percentages of faculty who are graduates-	
Of the same University	25%
From other universities within the State	75%
From universities of other states	NIL
Universities outside the country	NIL

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period - Nil**

**38. Present details of departmental infrastructural facilities with regard to**

- (a) **Library** – The department had a library until 2014 which is now shifted to the Central Library
- (b) **Internet facilities** for staff and students - We have sufficient Internet facility for Teachers. For students, Computer Laboratory is connected with Internet.
- (c) Total number of class rooms – 3 (Three)
- (d) Class rooms with ICT facility – 1 (One)
- (e) Students' laboratories – 1 Computer Lab.
- (f) Research Laboratories – Not Applicable.

**39. List of doctoral, post-doctoral students and Research Associates**

**(a) from the institution/university – 31.43%**

1. Basab Chanda; 2. Archan Nandi; 3. Mitul Chakraborty; 4. Biswajit Dey; 5. Amit Biswas;
6. Mandakranta Roy; 7. Suvam Dastidar; 8. Ripon Bepari; 9. Jayabrata Ghosh; 10. Rupali Biswas;
11. Ahmed Hussain; 12. Amitava Ukil; 13. Sandip Mallick; 14. Sarajit Mandal; 15. Uttam Ghosh;
16. Preti Singh; 17. Suman Sarkar; 18. Arindam Ghosh; 19. Bikash Das

**(b) From other institutions/ universities – 68.57%**

1. Amal Bhakat; 2. Amit Das; 3. Debasish Bandyopadhyay; 4. Hirak Roy; 5. Palash Bandyopadhyay; 6. Pankaj Mandal; 7. Prem Kumar Ghosh; 8. Lakshmi Das; 9. Manoj Kr. Sharma; 10. Madhav Kr. Biswas; 11. Sandip Sinha; 12. Suhas Roy; 13. Suvankar Chakraborty; 14. Suvendu Kundu; 15. Srikanta Malakar; 16. Sudipto Jana; 17. Manish Jain; 18. Payel Das; 19. Ashirbani Bardhan; 20. Joydeep Deyasi; 21. Anjan Roy Chowdhury; 22. Anindita Pramanik; 23. Sk. Sahajahan Ali; 24. Dilip Kr. Karak; 25. Sandip Pandit; 26. Asit Gope; 27. Sanjay Ghosh; 28. Debarati Guha; 29. Sudip Bhattacharya; 30. Prasanta Saha; 31. Mrinmoy Datta; 32. Nabendy Basak; 33. Soumya Ganguli; 34. Goutam Roy ; 35. Biplab Saha ; 36. Ratul Sur

**40. Number of post graduate students getting financial assistance from the university-**

1. Merit Scholarship – 5% of total students in every academic year
2. Merit cum Means Scholarship - 5% of total students in every academic year
3. Minority Scholarship – 5% of total students in every academic year
4. SC/ST Scholarship - 5% of total students in every academic year
5. Indira Gandhi Single Girl Child Scholarship – 1

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

Yes. Through self-assessment, students' feedback, discussion, etc.

**42. Does the department obtain feedback from**

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. The Feedback is taken into consideration while developing curriculum, as well as teaching-learning-methods.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. Through Faculty Evaluation Questionnaire, and also through verbal discussion. Feedbacks are discussed and corrective measures are undertaken.

No feedback is obtained from Staff.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. Through Faculty Evaluation Questionnaire, and also through verbal discussion. Feedbacks are discussed and corrective measures are undertaken.

No feedback is obtained from Staff.

**43. List the distinguished alumni of the department (maximum 10)**

SL. No.	Name	Year of Passing	Position Held
1.	Prof. Subhash Ch. Sarkar, Chairman	1980	Dean, Faculty of Arts & Commerce, and Former Head, Deptt. of Commerce, University of Kalyani
2.	Dr. Tanmoy Dutta	1986	Professor and Former Dean, Faculty of Arts & Commerce, Tripura University
3.	Prabhakar Gori	1990	Finance Manager, United Breweries
4.	CA Barun Sarkar	1993	Finance Manager

SL. No.	Name	Year of Passing	Position Held
			Haldia Petrochemicals
5.	Dr. Matiur Rahaman	1998	Professor in Australian University,
6.	Dr. Milan Kr. Bhattacharya	1998	Professor Chittagaon University, Bangladesh
7.	Dr. Arabinda Saha	1998	Professor & Chairman, Deptt. of Accounting & Information System Islamic University, Bangladesh
8.	Debraj Lahiri	2001	Cognigent Technology Solution, SAP Certified
9.	Dr. Madan Mohan Dey	2004	Professor Rajshahi University, Bangladesh.
10.	Biswajit Dey	2010	Price Waterhouse Coopers

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- (i) Special lecture was organized by the Department on “New Companies Act 2013” in August 2013.
- (ii) A two-day National Seminar organized by the Department on “Contemporary Issues in Accounting and Finance” in March 2014.
- (iii) One-day University-Level Seminar organized by the Department on “Importance of Stock Market” in August 2014.
- (iv) One –day National Level Seminar organised jointly by the Department of Commerce, University of Kalyani and The Institute of Chartered Accountants of India, New Delhi on “Emerging Issues in Accounting and finance” on 20<sup>th</sup> November 2015.

**45. List the teaching methods adopted by the faculty for different programmes.**

In addition to the lecture method, we use-

- Case study method
- Remedial coaching method
- Informal Seminars
- Assignments
- OHP, LCD projector, Computers, to make the teaching-learning process more effective.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

By up-gradation of syllabus every five years, taking into consideration the demand of the industry

**47. Highlight the participation of students and faculty in extension activities.**

- (1) Students participate in NSS programs and activities.
- (2) The faculty members are engaged in activities related to academics and administration in different academic institutions.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

So far applied aspects are concerned; students are given hand on training on- accounting software, e-filing, on line share-trading, MS office etc.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

Nil

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Department is focusing on research, we have many Research Fellows and managerial with creativeness that are eager on pursuing research.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.****Strengths:**

1. Highly Qualified and experienced Faculty with Ph. D. and/ or Professional Qualifications (2 Chartered Accountants)
2. A Research Journal (ISSN-0975-0746) Published by the Department
3. A Major UGC Research Project is ongoing
4. A Computer Lab with Internet Connection for students
5. Ph. D. and D.Litt. Programmes
6. Discipline and very good teacher-student relationship.

**Weakness:**

1. Infrastructure facilities are insufficient
2. Lack of Funding through Research Projects by most of the teachers.

**Opportunities:**

1. Introduction of M. Phil. Programme
2. Introduction of new Certificate/ Diploma Courses as per the latest demand of the society.
3. Tie-up with Government/ Industries/ University Departments for New programmes and projects.

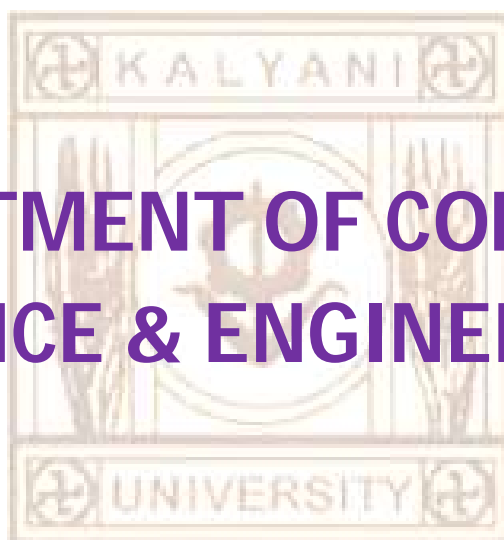
**Challenges:**

1. Lagging in Skill Development of the Students in the background of continuous changes in the Industries.
2. Emergence of Private Universities which may pose challenge in future.

**52. Future plans of the department.**

- (i) Undertaking research works funded by different funding agencies.
- (ii) Introduction of Diploma Course/Certificate Courses- on Taxation and Finance for Non-Financial Managers; on Corporate Governance of MSMEs.
- (iii) Up-gradation of the Departmental Journal.
- (iv) Publication of Edited Books by the Departmental Teachers.
- (vi) Re-opening of Departmental Library for the students of the Department.
- (vii) Organization of Seminars and Workshops on latest developments in the related area.

# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



1. **Name of the Department** : Computer Science & Engineering
2. **Year of establishment** : 1992
3. **Is the Department part of a School/Faculty of the university?** : Faculty of ETM.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** : MCA, M. Tech(Comp. S. & Engg.), Ph.D.
5. **Interdisciplinary programmes and departments involved:** M. Tech (CSE) and MCA both are interdisciplinary programs.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**
  - i) PhD student Exchange program in the University of Lodz, Poland funded by the European Commission within the framework of Erasmus+ Credit Mobility Program.
  - ii) A MoU was signed with IEST, Shibpur for collaborative research programmes and student exchange.
7. **Details of programmes discontinued, if any, with reasons:** No.
8. **Examination System:** Semester (MCA & M. Tech).
9. **Participation of the department in the courses offered by other departments:** NA.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor	1	1	3
Associate Professors	2	1	1
Asst. Professors	6	2	2
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Prof. J. K. Mandal	M. Tech, Ph. D.	Professor	Data and network security Cryptography, GIS and remote sensing	28	9/36
Prof. K. Mali	M. Tech, Ph. D.	Professor	Digital image processing, pattern recognition, Neural network	23	2/12
Prof. U. Biswas	M.E., Ph. D.	Professor	Optical & Sensor Networks, Semantic Web and Cloud	21	1/14



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
			Computing		
Dr. A. Mukhopadhyay	M.E., Ph.D.	Asso. Professor	Soft & Evolutionary Computing, Computational Biology, Data Mining and Optical Networks	11	2/10
Dr. P. R. Sinha Mahapatra	MCA, Ph.D.	Asst. Professor	Data Structures, Algorithms, Computational Geometry	15	0/5
Mr. D. Sarddar	M.Tech (PhD Thesis submitted)	Asst. Professor	Mobile Communication and Cloud Computing	4	0/6

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil**

**13. Percentage of classes taken by temporary faculty – programme-wise information**  
(10% of the total classes are taken by the guest faculties)

**14. Programme-wise Student Teacher Ratio: 22 : 1.**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :** technical – 3 Administrative - 3 + 2 (temporary)

**16. Research thrust areas as recognized by major funding agencies :** Data mining, bioinformatics, big data analytics, soft computing computational geometry, cloud computing, mobile, optical and sensor networks, semantic web, image processing, network security, steganography.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

**Faculty:** Dr. Priya Ranjan Sinha Mahapatra

**National funding agencies:** Department of Atomic Energy (DAE), GOI, Mumbai

**Total grant received:** Rs. 12.4 Lakh

**18. Inter-institutional collaborative projects and associated grants received**

- National – Jadavpur University, Indian Statistical Institute, IIT Kanpur, University of Calcutta, Chennai Mathematical Institute, Tezpur University
- International – University of Heidelberg, Germany, DKFZ, Germany, University of Goettingen, Germany, University of Nice Sophia-Antipolis, France, CINVESTAV-IPN, Mexico, Simon Fraser University, Canada, University of Texas, Austin, USA, University of Lodz, Poland.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

IIPC, 10 Lakh by AICTE during April 2009-March 2012

**20. Research facility / centre with**

- a) state recognition
- b) national recognition
- c) international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil**

**22. Publications:**

- ☐ Number of papers published in peer reviewed journals (national / international)

Prof. J. K. Mandal –	88
Prof. K. Mali –	22
Prof. U. Biswas-	20
Dr. A. Mukhopadhyay –	42
Dr. P.R. Sinha Mahapatra –	13
Mr. D. Sarddar –	53

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Total - 238

- ☐ Monographs

- ☐ Chapters in Books

Prof. J. K. Mandal –	03
Prof. K. Mali –	0
Prof. U. Biswas-	02
Dr. A. Mukhopadhyay –	04
Dr. P.R. Sinha Mahapatra –	03
Mr. D. Sarddar –	0

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Total - 12

- ☐ Edited Books

Prof. J. K. Mandal –	15
Prof. K. Mali –	0
Prof. U. Biswas-	0
Dr. A. Mukhopadhyay –	02
Dr. P.R. Sinha Mahapatra –	0
Mr. D. Sarddar –	0

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Total - 17

☐ Books with ISBN with details of publishers

Prof. J. K. Mandal –	01 (LAP Lambert)
Prof. K. Mali –	01 (LAP Lambert, ISBN: <b>978-3-659-39430-0</b> )
Prof. U. Biswas-	0
Dr. A. Mukhopadhyay –	01 (Springer, ISBN: 978-3-642-16614-3)
Dr. P.R. Sinha Mahapatra –	0
Mr. D. Sarddar –	0

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Total - 03

☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

	Scopus	DBLP	Google scholar
Prof. J. K. Mandal –	133	25	251
Prof. K. Mali –	07	04	36
Prof. U. Biswas-	32	06	99
Dr. A. Mukhopadhyay –	83	38	120
Dr. P.R. Sinha Mahapatra – 17	06	21	
Mr. D. Sarddar –	14	01	103
Total -	286	80	630

☐ Citation Index – range / average

	Range	Average
Prof. J. K. Mandal –	1 – 40	03.8
Prof. K. Mali –	1 – 69	02.2
Prof. U. Biswas-	1 – 15	02.1
Dr. A. Mukhopadhyay –	1 – 179	12.9
Dr. P.R. Sinha Mahapatra –	1 – 19	02.6
Mr. D. Sarddar –	1 – 14	01.6
Overall -	1 – 56	04.3

☐ SNIP

☐ SJR

☐ Impact Factor – range / average

	Range	Average
Prof. J. K. Mandal –	0.6 – 1.118	0.86
Prof. K. Mali –	0.5 – 3.0	2.1
Prof. U. Biswas-	0.492 – 0.572	0.54
Dr. A. Mukhopadhyay –	0.921 – 9.617	2.9
Dr. P.R. Sinha Mahapatra –	0.67 - 0.79	0.75
Mr. D. Sarddar –		
Average		0.838

## □ h-index

	Google scholar	Scopus
Prof. J. K. Mandal –	14	6
Prof. K. Mali –	5	4
Prof. U. Biswas-	7	4
Dr. A. Mukhopadhyay –	17	13
Dr. P.R. Sinha Mahapatra –	4	3
Mr. D. Sarddar –	6	2
Average	8.83	5.33

**23. Details of patents and income generated : Nil****24. Areas of consultancy and income generated : Nil****25. Faculty selected nationally / internationally to visit other laboratories / institutions****a. industries in India and abroad****Abroad**

- i) Dr. A. Mukhopadhyay visited University of Heidelberg and German Cancer Research Center, Heidelberg, Germany with Erasmus Mundus post-doc fellowship during September 2009- June 2010.
- ii) Dr. A. Mukhopadhyay visited I3S Laboratory, University of Nice Sophia-Antipolis, Nice, France as a Visiting Professor during April-May 2011.
- iii) Dr. A. Mukhopadhyay visited Institute of Bioinformatics, University of Goettingen, Germany with DAAD scholarship of Visiting Research Fellow during May-June 2013.
- iv) Dr. A. Mukhopadhyay visited Rajshahi University of Engineering and Technology (RUET), Rajshahi, Bangladesh to deliver keynote lecture in the International Conference on Computer and Information Engineering (ICCIE-2015) during 26-27 November 2015.
- v) Dr. U. Biswas visited University of Goettingen (Telematic Group,) Germany with Erasmus Mundus Scholarship as Visiting Faculty Member during 4th June 2010 to 31st August 2010.
- vi) Dr. P. R. Sinha Mahapatra visited University of Cantabria, Santander, Spain during June 20-23, 2011.

**India**

- i) Dr. P. R. Sinha Mahapatra visited Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata during November 2- December 1, 2012.
- ii) Dr. P. R. Sinha Mahapatra visited Theoretical Computer Science Unit, Chennai Mathematical Institute, Chennai, during August 18-25, 2013.

**26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

**a) National committees**

Dr. A. Mukhopadhyay served as a member of the expert committee of UGC North East Regional Office (NERO) for evaluation of scientific project proposals in January 2012.

**b) International committees**

Dr. A. Mukhopadhyay served as a member of the expert committee of Austrian Science Fund (FWF) for evaluating scientific project proposals in October 2015.

### c) Editorial Boards

- i) Dr. A. Mukhopadhyay edited a thematic series on “Machine Learning and Graph Algorithms for Analysis and Prediction of Protein Structures, Functions and Interactions” published in BMC Algorithms for Molecular Biology journal.
- ii) Prof. J. K. Mandal and Dr. A. Mukhopadhyay edited the proceedings of the Second International Conference on Information Systems Design and Intelligent Applications (INDIA-2015) published in AISC series, Springer (Vol. 339 and 340), 2015.
- iii) Prof. J. K. Mandal and Dr. A. Mukhopadhyay edited the proceedings of the First International Conference on Computational Intelligence: Modelling, Techniques and Applications (CIMTA-2013) published in Procedia Technology, Vol. 10, Elsevier, 2013.

### 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

### 28. Student projects

- a. percentage of students who have done in-house projects including inter-departmental projects - 80%
- b. percentage of students doing projects in collaboration with other universities/ industry / institute - 20%

### 29. Awards / recognitions received at the national and international level by

#### Faculty

- a. Dr. A. Mukhopadhyay has been awarded Indian National Academy of Engineering (INAE) Young Engineer Award 2014.
- b. Prof. J. K. Mandal received the Chapter Patron Award, CSI Kolkata Chapter, 2014 in CSI Annual Convention, JNTU, Hyderabad held during 14-16 December, 2014
- c. Dr. M. Bhattacharyya (now with IEST, Shibpur) has received Indian Science Congress Association (ISCA) Young Scientist Award 2013-14 in Information and Communication Science & Technology (including Computer Science) section.
- d. Dr. A. Mukhopadhyay has been selected for Institution of Engineers, India (IEI) Young Engineers Award 2013-14 in Computer Engineering Discipline.
- e. Biography of Prof. Jyotsna Kumar Mandal has been included in Marquis Who's Who in the World 2014 (31st Edition), USA (published in November 2013).
- f. Dr. A. Mukhopadhyay received DAAD scholarship for research stay of 2 months at University of Goettingen, Germany during May-June 2013.
- g. Dr. A. Mukhopadhyay has received second best paper award in International Conference BIC-TA 2012 held at Gwalior, India in December 2012.
- h. Dr. A. Mukhopadhyay has received special paper award in International Conference PDGC 2012 held at Solan, India in December 2012.
- i. Prof. J. K. Mandal has received the prestigious Bharat Jyoti Award 2012 from India International Friendship Society.
- j. The International Publishing House, Delhi, India conferred “The Best Citizen of India Award 2012” to Prof. J. K. Mandal in November 2012.
- k. Dr. M. Bhattacharyya (now with IEST, Shibpur) received the best reviewer award in the 7th International Conference on Digital Information Management (ICDIM) held in Macau, China during August 22-24, 2012.

- l. Dr. M. Bhattacharyya (now with IEST, Shibpur) won Travel Fellowship for Developing Nations from International Society for Computational Biology (ISCB) for attending the 8th ISCB Student Council Symposium 2012 (SCS8) held in Long Beach, California, USA on July 13, 2012.
- m. Dr. M. Bhattacharyya (Now with IEST, Shibpur) became the co-runner Up Award from NextBio for the Research Travel Grant 2012.
- n. Dr. A. Mukhopadhyay has been promoted to the IEEE Senior member grade in December 2011.
- o. Dr. U. Biswas received the Erasmus Mundus scholarship for visiting professorship at University of Goettingen, Germany for three months in 2010.

#### **Doctoral / post doctoral fellows**

- a. Madhumita Sengupta, the scholar of Prof. J. K. Mandal received the award of most Active Participant –Woman Member of CSI 2012-13.
- b. Monalisa Mandal, the scholar of Dr. A. Mukhopadhyay has received second best paper award in International Conference BIC-TA 2012 held at Gwalior, India in December 2012.
- c. Monalisa Mandal, the scholar of Dr. A. Mukhopadhyay has received special paper award in International Conference PDGC 2012 held at Solan, India in December 2012.
- d. Soumen Atta, the scholar of Dr. P. R. Sinha Mahapatra has received scholarship under student Exchange program with the University of Lodz, Poland funded by the European Commission within the framework of Erasmus+ Credit Mobility Program.

#### **e. Students - Nil**

### **30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

#### **International Conference:**

The department organized the First International Conference on Computational Intelligence: Modeling, Techniques and Applications (CIMTA-2013) during September 27-28, 2013 with generous grants from the University, AICTE and DST. The proceedings of the conference to be published with Elsevier in the form of Procedia Technology. **Source of Funding:** UGC, DST PURSE, AICTE

#### **Outstanding participants:**

(i) Prof. Sanghamitra Bandopadhyay, MIU, ISI, Kolkata (ii) Prof. Chilikuru Mohan, Syracuse University, USA (iii) Prof. Sukumar Nanidi, IIT Guhawati (iv) Prof. Ujjwal Maulik, Jadavpur University (v) Prof. Subir Sarkar, Jadavpur University (vi) Prof. P. K. Roy, Emiratus Scientist, APIIT (vii) Dr. Debasish Jana, TEOCO Software, Kolkata (viii) Prof. Paramartha Dutta, Vishva-bharati University (ix) Prof. B. B. Chowdhury, ISI, Kolkata

2nd International Conference on Information Systems Design and Intelligent Applications (INDIA 2015) during January 8-9, 2015. **Source of Funding:** UGC, DST PURSE, Microsoft

#### **Outstanding participants:**

(i) Prof. Rajkumar Buyya, Melborn University, Australia (ii) Prof. A. K. Pujari, Hybrabad Central University (iii) Dr. Vikrant Bhateja, Shri Ramswaroop Memorial Group of Professional Colleges

#### **Workshop:**

West Bengal State Council sponsored two days workshop on "Computational Methodologies and Applications (CMA-2013)" under State Wide University Network (SUN) of West Bengal, India organized joint by the Department of Computer Science & Engineering, University of Kalyani and Department of Computer Science and Technology, BESU during 22nd to 23rd April, 2013. **Source of Funding:** DST PURSE

**Outstanding participants:**

(i) Prof. Binay Bhattacharya, Simon Fraser University, British Columbia, Canada (ii) Prof. Sanghamitra Bandopadhyaya, Machine Intelligence Unit, Indian Statistical Institute, Kolkata (iii) Prof. Ujjwal Maulik, Depttment of CSE, Jadavpur University (iv) Prof. A. K. Roy, Director, IEST, Shibpur, Kolkata (v) Prof. M. Mitra, Depttment of Mathematics, IEST, Shibpur

One-day workshop on “Computational Methodologies and Applications (CMA-2014)” on 21st March, 2014. The workshop was sponsored by DST PURSE scheme, University of Kalyani.

**Outstanding participants:**

(i) Dr. Ansuman Banerjee, Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata (ii) Dr. Sasthi Charan Ghosh, Advanced Computing and Microelectronics Unit, Indian Statistical Institute, Kolkata. (iii) Dr. Partha Bhowmick, Department of Computer Science & Engineering, IIT Kharagpur, India

One-day workshop on “Emerging Issues of Information Technology” on 31<sup>st</sup> March, 2015. The workshop was technically co-sponsored by IEEE CIS Kolkata Chapter.

**Outstanding participants:**

(i) Prof. S. Satapathy, ANITS, Andhra Pradesh, India. (ii) Dr. V. Bhateja, Shri Ramswaroop Memorial Group of Professional Colleges

**31. Code of ethics for research followed by the departments**

Research ethics as per UGC new regulation 2009 are strictly followed by the faculty members and scholars of the department.

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
MCA (Year of passing 2014)	JECA	18	10	16	9
MCA (Year of passing 2015)	JECA	24	6	21	6
M Tech (Year of passing 2014)	260	15	3	15	3
M Tech (Year of passing 2015)	212	12	6	9	6

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from Universities outside the State	% of students from other countries
MCA (Year of passing 2014)	3	91	6	0
MCA (Year of passing 2015)	0	100	0	0
M Tech (Year of passing 2014)	0	94	6	0
M Tech (Year of passing 2015)	6	94	0	0



**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET 6; SET 2; GATE 9

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	6 (Maximum)
PG to M.Phil./M. Tech.	6 (Maximum)
PG to Ph.D.	33
Ph.D. to Post-Doctoral	0
Employed	
<input type="checkbox"/> Campus selection	Almost 10%
<input type="checkbox"/> Other than campus recruitment	Almost 90%
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	20
from other universities within the State	80
from universities from other States from	0
universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Ph.D (Awarded in 2012); Ph.D (Submitted in 2015)**

**38. Present details of departmental infrastructural facilities with regard to**

- |  |                  |
|--|------------------|
| a. Library   | Nil              |
| b. Internet facilities for staff and students: Available for staffs and students |                  |
| c. Total number of class rooms   | 6 (Six)          |
| g) Class rooms with ICT facility   | 5 rooms out of 6 |
| h) Students' laboratories  | 4 (Four)         |
| i) Research laboratories   | 2 (Two)          |

**39. List of doctoral, post-doctoral students and Research Associates**

**a. from the host institution/university**

Mr Arup Sarkar (ongoing) , Mr. Sourav Banerjee (ongoing); Mr. Tanmay Chakraborty (ongoing); Dr. Monalisa Mandal (awarded); Mr. Sujoy Chatterjee (ongoing); Mr. Jyotirmay Mondal (ongoing); Mr. Soumen Atta (ongoing); Smt. Ankita Bose (ongoing); Mr. Partha Ghosh (ongoing); Mr. Anindya Sarkar (ongoing); Dr. Madhumita Sengupta (awarded); Dr. Somnath Muhopadhyay (awarded); Dr. Arindam Sarkar (awarded); Mr. Asim Kumar Maiti (ongoing); Mr. Kumar Sharma (ongoing); Mrs. Amrita Khamrui (ongoing); Mr. Ranjan Mandal (ongoing); Smt. Aparna Sarkar (ongoing)

**b. from other institutions/universities**

Dr. Ujjal Marjit (awarded); Mr Debrata Sarddar (submitted); Mrs Chaitali Biswas Dutta (Submitted soon); Hasanuzzaman (ongoing); Mr Bappaditya Das (ongoing); Mr. Sourav Ghosh (ongoing); Dr. Papun Biswas (awarded); Mrs. Bandana Barman (ongoing); Mr. Sourav Saha (ongoing); Dr. Samayita Bhattacharya; Mr. Koushik Roy, (ongoing); Mr. Kaushik Dasgupta (ongoing); Dr. Prasun Halder

(awarded); Dr. Subhranil Som (awarded); Dr. Manas Paul (awarded); Mr. Uttam Mumar Mandal (ongoing)

**40. Number of post graduate students getting financial assistance from the university.**  
Nil

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Not applicable**

**42. Does the department obtain feedback from**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, we take feedback from faculties regarding student progress, syllabus upgradation, scope of placement of students etc. which are discussed in the DC meeting and decisions regarding the betterment of the department are taken based on these feedbacks.

- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, we take feedback from students in every year. Last three year, we are taking feedback online. We are used to discuss the feedback associated with each faculty in DC meeting for improving the teaching and learning process. For example the syllabus of both MCA and M. Tech are updated from as demanded by students though feedback. We also arrange lectures from the industrial experts as demanded by students though feedback. Chairman DC is used to instruct/request concerned staff to improve himself/herself if there is any such feedback indicated by the students. Moreover we also arrange lectures from the industrial experts as demanded by students though feedback.

- iii. alumni and employers on the programmes offered and how does the department utilize the feedback?

We meet with alumni in the month of Januray/February and we are getting their active participation for improving the industrial skill. Moreover our alumni are also helping student for getting jobs as well as training.

**43. List the distinguished alumni of the department (maximum 10)**

- (i) Dr. Kartick Chandra Mondal, Assistant Professor, Dept. of IT, Jadavpur University, West Bengal, [kartickjgeo@gmail.com](mailto:kartickjgeo@gmail.com), 963535335745.
- (ii) Dr. Anindya Halder, Assistant Professor, Dept. of Computer Application, NEHU, Meghalaya, [anindya.halder@gmail.com](mailto:anindya.halder@gmail.com), 9774471479.
- (iii) Dr. Samit Biswas, Assistant Professor, Dept. of Computer Science and Technology, IEST, Shibpur, [samit@cs.becs.ac.in](mailto:samit@cs.becs.ac.in), 9831613404
- (iv) Mr. Sourav Banerjee, Assistant Professor, Dept. of Computer Science and Enggineering, Kalyani Government Engineering College, Klayni, West Bengal, [contact200683@gmail.com](mailto:contact200683@gmail.com), 9433578803
- (v) Mr. Sumanta Roy, Assistant Professor, Dept. of Computer Science and Enggineering, Alliah University, Kolkata., [sumantababai86@gmail.com](mailto:sumantababai86@gmail.com), 9062955629
- (vi) Dr. Anirban Bhar, Assistant Professor, Dept. of Computer Science and Enggineering, NIIT University, Rajasthan, [bhar.anirban@rediffmail.com](mailto:bhar.anirban@rediffmail.com), 8239170642
- (vii) Mr. Santanu Chakraborty, SAP Technical Architect, TCS, Kolkata, [shann\\_033@yahoo.co.in](mailto:shann_033@yahoo.co.in), 9883107563
- (viii) Avishek Banerjee, Project Associate, Cognizant Technology, Kolkata, [avishekbannerjee2@gmail.com](mailto:avishekbannerjee2@gmail.com), 8100774702

(ix) Mr. Rahul Saha, Assistant Manager, Vijaya Bank, Karnataka, [rahulsaha649@gmail.com](mailto:rahulsaha649@gmail.com), 9038281606.

(x) Anirban Dutta, Senior Engineer, Target Corporate, Bangalore, [Aoni17@gmail.com](mailto:Aoni17@gmail.com), 9804351076

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- i. Lecture on “Employment Opportunities” (Organized by IIPC cell, Dept. of CSE, KU) by Mr. Sayan Lahiri, Senior Director, Sales IT with HP, California, USA 4<sup>th</sup> January, 2011
- ii. Remote Sensing and GIS, training on TNT-MIPS software by Opsis Systems, Kolkata (Jointly organized by Dept. of CSE, KU and Dept. of CSE, CU), March, 2011. Experts from DST, Govt. of India, IIT Kharagpur, NATMO, India.
- iii. Lecture on “Industry Institute Interaction” (Organized by IIPC cell, Dept. of CSE, KU) by Mr. Sanchayan Bhattacharjee, Wipro Ltd., and Mr. Anirban Ghosh, Cognizant Techn. Sol. (CTS), Kolkata, Kolkata, 28<sup>th</sup> March, 2011

**45. List the teaching methods adopted by the faculty for different programmes.**

- i) Delivering course lecture with LCD projectors.
- ii) Creating course websites and posting the course lecture slides there.
- iii) Online assignment checking.
- iv) Student seminar.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

We meet the students in each semester and discuss with their problems. Moreover students are meeting with the faculty members regularly during the semester.

**47. Highlight the participation of students and faculty in extension activities.**

- i) The Faculties act as paper setter, examiner, moderator etc. In other state-level and national universities.
- ii) The faculties are members of editorial boards in the different national and international journals as well as conferences.
- iii) The faculties act as resource persons in various refresher courses and orientation programmes held in our as well as other institutes and universities.
- iv) The faculties deliver invited lectures in various workshops and conferences.
- v) Students participate in various coding competitions.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

A programming contest (Challenge of Coding - CHoCO) is organized every year and departmental students participate in this.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

AICTE approval for MCA (WB-005/ET-MCA/2001 dt. 27.06.2001) and M.Tech. (750-80-115(E)/ET/99 dt. September 19, 2005) courses.

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has research expertise in basic theoretical aspects of computer science as well as applications of it. Several Ph.D.s have been guided and awarded over the last few years in both

theory such as algorithm development, computational geometry, theoretical computer science etc. and real-life applications such as bioinformatics, pattern recognition, optical and sensor networks, semantic webs, steganography, image processing and many more. A number of publications, in the forms of journal papers, conference papers and books have come out from these Ph.D.s. Besides these, from the project and thesis works of MCA and M.Tech. students, several innovative ideas have come out many of which produced good quality publications thereafter.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- (i) Strong and friendly relationship among all faculty members.
- (ii) Good and friendly relationship among the students, teachers and alumni.
- (iii) Delivering course lecture with LCD projectors, online students feedback etc.
- (iv) Very good research outcome **with limited human resources**.
- (v) Very good research collaboration with reputed institutes in India and abroad.

**Weakness:**

- (i) Limited faculty members. The minimum number of faculty required to run MCA and M. Tech courses is 15 as per AICTE norms. However the department has only six faulty members.
- (ii) Shortage of space.
- (iii) Now there is no departmental library although it is required as per AICTE norms.
- (iv) Shortage of technical staffs.
- (v) Students are not getting jobs through campus interview as the size of the ETM faculty is small.

**Opportunities:**

- (i) The department can apply for UGC-SAP, DST-FIST, etc for funding if faculty strength increases.

**Challenges:**

- (i) It is really challenging to run MCA and M. Tech courses smoothly with the help of only six faculty members. The minimum number of faculty required to run MCA and M. Tech courses is 15 as per AICTE norms.
- (ii) The department can take initiative for NBA accreditation for MCA and M. Tech courses in near future if faculty strength increases.
- (iii) Arranging the placement of students through off campus interview.

**52. Future plans of the department.**

- i) The department is planning to open a B.Tech. course in Computer Science and Engineering as decided in the Executive Council. In this regard we have already applied for permission from AICTE and the higher education department, Govt. of West Bengal. Introduction of this course will enrich the department and increase the total strength thus giving better opportunities for attracting IT companies for direct campus recruitments.
- ii) For the purpose of the new course, the classroom and laboratory spaces need to be increased. For this, the 2<sup>nd</sup> floor of the horizontal extension of the departmental building is to be finished.
- iii) New PCs and other laboratory equipments are to be purchased for giving better facilities to the students, scholars and the faculty members.
- iv) New books will be purchased for the library.

- v) The department will conduct a workshop for the non-teaching staffs of the university to teach them MS Office.
- vi) The syllabus for the existing MCA and M.Tech. courses will be revised.
- vii) The department is planning to apply for DST-FIST project grant.



# DEPARTMENT OF ENVIRONMENT AND ECOLOGY



1. **Name of the Department** : Department of Ecological Studies
2. **Year of establishment** : 2010
3. **Is the Department part of a School/Faculty of the university?** Yes; A department under Faculty of Science
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** M.Sc., M.Tech. & PhD
5. **Interdisciplinary programmes and departments involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programmes discontinued, if any, with reasons:** Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** Semester; Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:**
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**  
**Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor	0	0	0
Associate Professors	2	1	1 (CAS)
Asst. Professors	3	2	1
Others	4		

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Jayanta Kumar Biswas	M.Sc., M.Phil., Ph.D.	Associate Professor	Applied Ecology; Ecological Engineering & Ecotechnology; Environmental Microbiology & Biotechnology; Ecotoxicology; Aquatic pollution monitoring & eco-remediation; Regenerative reclamation of wastewater; Environmental Ethics	15 years	8 Students are being guided for Ph.D degree; 15 MTech & MSc dissertation



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Susmita Lahiri	M.Sc., Ph.D	Assistant Professor	Wastewater Management, ecological engineering, Aquaculture, microbial bioremediation	5	8 Students are being guided for Ph.D degree

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- (i) Dr. Parthasarathi Chakraborty, ex-Chief Scientist, Department of Science and Technology, Govt. of West Bengal
- (ii) Prof. B.B. Jana, Rtd. Professor, Kalyani University
- (iii) Prof. K.M Agarwal, IISWBM, Kolkata
- (iv) Prof. Santana Jana, Rtd. Professor, WBUFAS, Kolkata
- (v) Prf. B.K. Chowdhury, IISWBM, Kolkata
- (vi) Prof. Sakti Sankar Sahu, Rtd. Professor, BCKV
- (vii) Dr. R.D Banerjee, Rtd. Professor, Kalyani University
- (viii) Prof. R.C. Dhua, BCKV
- (ix) Prof. Paritosh Ghunti, Rtd. Professor, BCKV
- (x) Prof. M.K. Agasthi, Rtd. Professor, BCKV
- (xi) Dr. Sukdeb Das
- (xii) Dr. Mahua Homechoudhury, WBCST

13. **Percentage of classes taken by temporary faculty – programme-wise information:** 66%

14. **Programme-wise Student Teacher Ratio:** 4:1 (including contractual teachers)

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** Technical Assistant: 02, Administrative Staff: Nil

## 16. Research thrust areas as recognized by major funding agencies:

- Effect of global warming and climate change on Indian aquaculture
- Safeguarding water resources using green and sustainable technologies
- Wastewater fed aquaculture as a reclamation strategy
- Eco-tech approaches towards reclamation of eutrophic waters using hydroponics and biological agents
- Efficacy of constructed wetlands in the removal of pathogens in wastewater fed aquaculture
- Environmental pollution and ecoremediation

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

One; Dr. Susmita Lahiri (as Co-PI)

- Funding agencies:- DST
- Project title :- Safeguarding Water Resources of India with Green and Sustainable Technologies
- Grant received : Rs.50 Lakhs

**18. Inter-institutional collaborative projects and associated grants received : Nil**

a) National collaboration

b) International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil**

**20. Research facility / centre with**

- state recognition ✓
- national recognition
- international recognition ✓

**21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil**

**22. Publications:**

\* Number of papers published in peer reviewed journals (national / international): 40

\* Monographs: Nil

\* Chapters in Books 6 \*  
 Edited Books: Nil

\* Books with ISBN with details of publishers: Nil

\* Number listed in International Database (For e.g. Web of Science, Scopus,

Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 34

\* Citation Index – range / average

\* SNIP

\* SJR

\* Impact Factor – range / average: 0.8

\* h-index: 6

**23. Details of patents and income generated: NA**

**24. Areas of consultancy and income generated:**

- Water quality analysis
- Waste Management
- Environmental Auditing
- Environmental Impact Assessment
- Environmentally Responsible Fishery

**25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad: Nil**

**26. Faculty serving in**

- a. National committees:
- b. International committees
- c. Editorial Boards: Dr. Jayanta Kumar Biswas is serving as Editor-in-Chief, Academic Spectrum -a multi-disciplinary, refereed journal (ISSN: 09769323) and as Editorial Board Member of (i) International Journal of Pollution & Noise Control, (ii) International Journal of Environmental Chemistry, (iii) International Journal of Prevention & Control of Industrial Pollution
- d. any other (please specify) : Dr. Jayanta Kr. Biswas is a member of Environment and Energy Committee, Bengal Chamber of Commerce and Industry (BCCI), Kolkata.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

Faculties regularly participate in refresher / orientation programs, seminars, conferences, workshops, training program, etc.

**28. Student projects**

Percentage of students who have done in-house projects including inter-departmental projects: In-house-100%

- percentage of students doing projects in collaboration with other universities / industry/ institute: Nil

**29. Awards / recognitions received at the national and international level by Faculty**

Dr. Jayanta Kr. Biswas:

- (i) Received the award of FZS (Fellow, Zoological Society, Kolkata) as a recognition of his contribution in the environmental research areas (2012-2013).
- (ii) Received the Senior Scientist Award and gold medal in the 24<sup>th</sup> All India Congress of Zoology, awarded by Zoological Society of India in 2013.
- Doctoral / post doctoral fellows
- Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any:**

- (i) Special Lecture on “Application of Ecological Engineering in the Present Perspective of Environmental Degradation and its Restoration” (12.01.2011)
- (ii) International Seminar on Environmental Engineering for Environmental Management (14.01. 2012)
- (iii) International Seminar on “Current Status of Arsenic, Fluoride and Pathogens in Drinking Water: Treatment Methods and Experiences” (01.04.2013).
- (iv) One-day international seminar on Sustainability and future of Environmental Engineering organized in collaboration with Noble Institute of Environmental Peace, Canada on 16.07.2014.
- (v) Workshop on Revision of syllabus of M.Tech/M.Sc in Environmental Management on 03.12.2014.
- (vi) Special lecture on Water and Health by Claus Jorgensen, Head, WHO laboratories, Denmark, organized by ICEE and Department of Environmental Management, Kalyani University on 28.11.2014.

- (vii) National Seminar on Impact of climate Change on Aquaculture and Mitigation Options for Food Security organized by International Centre for Ecological Engineering and Department of Ecological Engineering & Environmental Management during March 25-26, 2014.
- (viii) Workshop on Chemistry and Microbiology: Laboratory Methods and Practices for the Evaluation of Wastewater organized by International Centre for Ecological Engineering and Department of Ecological Engineering & Environmental Management during April 27-30, 2015.
- (ix) Stakeholders Forum and Workshop on Indian Wastewater Sector organized by International Centre for Ecological Engineering and Department of Ecological Engineering & Environmental Management on April 30, 2015.

**31. Code of ethics for research followed by the departments:** Yes; The Department is committed to undertaking research with scientific integrity and in conformity with the accepted code of principles on Good Research Practices (GRP). All researchers follow the standard code of ethics for research laid down by relevant scientific and professional bodies.

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG (M.Sc. & M. Tech.)	Yr.2014--119	6	7	100	100
	Yr.2013--83	8	9	100	100

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG (M.Sc & M.Tech)	60	40	0	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations?** GATE: 3

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	25%
Ph.D. to Post-Doctoral	
Employed	
<input type="checkbox"/> Campus selection	-
<input type="checkbox"/> Other than campus recruitment	20%
Entrepreneurs	

**36. Diversity of staff**

Percentage of Faculty who are graduates	
Of the same university	22
From other universities within the state	78
From other universities outside the state	0
From universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil****38. Present details of departmental infrastructural facilities with regard to**

- Library: Service is received from Central Library facility
- Internet facilities for staff and students: Yes
- Total number of class rooms: 2
- Class rooms with ICT facility: Nil
- Students' laboratories: 2
- Research laboratories: 2

**39. List of doctoral, post-doctoral students and Research Associates**

- from the host institution/university:
  - Saumen Hazra; Sabia Khan; Debarati Ghosh; Monojit Mondal; Anurupa Banerjee; Pradyut Malakar; Sukhen Roy
- from other institutions/universities:
  - Shri Saurav Kumar Nandy; Sm. Sanjukta Mistri; Shri Sandip Kumar Paul; Shri Biman Gati Gupta; Shri Dipankar Ghosh; Ankita Bhattacharjee; Prateek Karmakar; Sasanka Pramanik

**40. Number of post graduate students getting financial assistance from the university: 3****41. Was any need assessment exercise undertaken before the development of new programme(s)?**  
If so, highlight the methodology. NA**42. Does the department obtain feedback from**

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?  
Yes. The Department utilizes the feedback for improvement of teaching-learning process, syllabus up-gradation, etc.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?  
Yes. The Department utilizes their feedback for improvement of standard of the teaching-learning process. The staff members are advised to manage or mould their methods of teaching and/or to strengthen pedagogical practices suiting to the basic needs of the students
- Alumni and employers on the programmes offered and how does the department utilize the feedback?  
Yes. Their valuable suggestions are taken into consideration and accordingly syllabus gets revised.

**43. List the distinguished alumni of the department (maximum 10):**

In our very young department of only five plus years the following students have shown distinction by entering into the research or service arena:

- i. Suken Roy, Sp[ecial OA, Bandel Thermal Power Station
- ii. Mandira Biswas, Assistant Professor
- iii. Romel Roy, Environmental Analyst
- iv. Koushik Sarkar, Lecturer, Bidhan Chandra Institution, Durgapur

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:** Department regularly organize special lectures, workshops and seminars involving external experts. Besides each student has to deliver seminar lecture in each semester.**45. List the teaching methods adopted by the faculty for different programmes:**

Chalk & Talk method, Power Point Presentation, Group assignments and group discussions, Questioning and cross checking, Quizzing, Seminars, Workshops, Hands on training/Practical, Projects/Dissertation, Field visit, Industrial visit, etc

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The programme objectives are constantly met through diverse curricular and extracurricular activities like Lecture, Seminar, Tutorial, Practical, Field-work, Industrial visits, Dissertation work, Soft skill development, Extension activities, Internal Assessment through assignments and tests and Semester Examinations. Monitoring is made on the feedback from the stakeholders and faculties, Departmental Committee and Faculty Council Meeting, etc.

**47. Highlight the participation of students and faculty in extension activities.**

- Students are encouraged to apply knowledge outside of the classroom, hone their skills, go on fieldtrips and participate in community services.
- Department regularly organize awareness generation and sensitization programmes involving faculties and students on different environmental and allied issues like organic farming, integrated farming, aquaculture, wastewater-fed fish farming, eco-sanitation.
- Besides, department celebrate World Environmental Day, Tree Plantation Week, Earth Day, etc.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- The Department is engaged in diverse activities in the fields of academic, training, extension and research activities towards protection of environment, uplift of rural economy etc.
- In addition to this the Department is promoting research activities by organizing National and International Seminars, Conferences, Symposia, etc. Faculty members and research scholars are encouraged to attend and present papers in intra-institutional and other national and international platforms.
- Research Scholars and faculty members are participating in the workshops and hands on training programmes on modern techniques, upcoming methods, etc.
- Research Scholars and Faculty members are publishing articles in the reputed journals at national and international level.
- Faculty members are delivering special lectures and invited lectures and serving as resource persons in conferences, refresher course, etc at other institutions

- Constant efforts are being made to include other International and National organisations for support and collaboration so that the Department can contribute towards sustainable development in a global perspective. Accordingly a number of MOUs have been signed with International Ecological Engineering Society (IEES), Switzerland, Kochi University (Japan), ACTS (Bangalore, India) and William Carey University (Shillong, India). The Center has already earned International recognition in research and has become a member of the Global Water Partnership in Stockholm, Sweden.
- Our consultancy is available in the areas of resource management, water quality analysis, environmental impact assessment, wastewater management, aquaculture, etc.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.: NA**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Our Master Programmes cut across traditional subjects and disciplines and truly multidisciplinary, integrative and dynamic fields that recognize the urgency of the current environmental challenges and enormous opportunities that may lead to transformative change. It stimulates interest in performing research to move this exciting field forward with new insights. This programme evolves best equipped to guide higher learning into a challenging world demanding a holistic approach to environmental problem solving, pollution control and resource management.
- It has set a bright example of publishing quality research papers in peer reviewed journals of International and National repute.
- Department is regularly organizing seminars, workshops and hands on training programmes on upcoming topics, areas and research.
- The research wing of the department International Centre for Ecological Engineering (ICEE), University of Kalyani since the beginning of its journey in 2002 in collaboration with Ecological Engineering Society, Switzerland has made remarkable strides in research at the national and international arena with implementation of many major research projects funded by CSIR, DST, DBT, ICAR, GTZ (Germany), TTZ (Germany), Eco-san (European Commission), etc. ICEE has carved a niche in the international arena by making substantial contribution and cutting edge research. As a noteworthy international recognition in water research, the ICEE has become a partner of the Global Water Partnership, Stockholm, Sweden which is regarded as a prestigious recognition in water sector in the world) with effect from November 1, 2006.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- Updated curriculum and high quality interdisciplinary teaching-learning
- Cutting edge research in diverse areas of environmental
- Qualified and competent faculty
- Fully equipped laboratories and advanced research instrumentation facility
- Excellent library facility
- Collaboration with national and international organizations and laboratories
- Research culture



**Weaknesses:**

- Low enrolment of students
- Inadequate faculty position
- Mostly first generation learners as students
- Poor communication skills of students due to rural background.
- Physical space constraint

**Opportunities:**

- Interdisciplinary teaching-learning and research opportunities
- National and International collaborations
- Participate in national /international seminars.
- Industrial and field visits
- Potential opportunity for career development in research, industry, NGOs, self-employment, etc.

**Challenges:**

- Poor communicative skills among the students
- Initiating Industry linkage
- Enhancing students' employability and placement.
- Creating leadership qualities and entrepreneurship among students
- Motivate students to qualify/clear competitive examinations

**52. Future plans of the department.**

- Overcome shortage of teaching faculty through fresh recruitment and appointing resource persons
- Infrastructural development e.g. extension of departmental building, up-gradation of lecture theatre and laboratories, smart class rooms with audio visual aids, procurement of some high end scientific instruments, purchase of text and reference books and journals
- Overall improvement of teaching-learning and research activities of the department.
- MOU with different international universities and organizations
- Research collaboration with several universities, institutes at national and international level.
- Organization of National and International seminars, workshops, special invited lectures, etc.
- Submission of research projects by individual teachers to different funding agencies.
- Participation of teachers in different faculty development/recharge programmes
- Exploring placement opportunities for students
- Institute-Industry tie-up for students' training
- Industrial visits and educational excursion
- Conduction of extension activities like environmental sensitization and awareness generation through community engagement programmes

# DEPARTMENT OF ECONOMICS



1. **Name of the Department :** Department of Economics
2. **Year of establishment :** June, 1961
3. **Is the Department part of a School/Faculty of the university?**  
Yes, Faculty of Arts and Commerce
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**  
MA/M.Sc in Economics (2year course) with *Specialisation/Options* – Econometrics; International Economics; Economics of Money, Banking and Finance; Natural Resource & Environment Economics; Mathematical Economics  
M.Phil in Economics(2-year course) *Optional subjects* – Development Economics; Advanced Econometrics  
Ph.D in Economics
5. **Interdisciplinary programmes and departments involved**  
NIL. However, faculties participate in the teaching curriculums of other Departments like Environmental Science, Commerce.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**  
Nil
7. **Details of programmes discontinued, if any, with reasons :** Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**  
4 Semester Course .The Post Graduate course work divided into four papers in each semester, making a total of 16 papers. For assessment and evaluation of student's performance, each paper is assigned 100 marks, of which 60 marks is kept for end-semester examination, and remaining 40 marks is on continuous internal assessment in the form of class tests and assignments.
9. **Participation of the department in the courses offered by other departments**  
The Departmental Teachers taught as guest faculties in the Department of Commerce and Department of Environmental Science.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Teaching Posts	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor			02
Associate Professor			05
Assistant Professor			01
Others			Nil

### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil students guided for the last 4 years
Prof. Suatanu Bhattacharya	M.A (Econ.), Ph.D., ICWAI	Professor (on Extension)	Macroeconomics, History of Economic Ideas, Economics of Education and Human Capital, Financial Economics	37	
Prof. Nitish Dutta	M.A. (Econ.) Ph.D	Professor (Retd. on 30 <sup>th</sup> of November, 2015)	Microeconomics, Econometrics, Industrial Efficiency Studies	30	Ph.D-07
Prof. Byasdeb Dasgupta	M.Sc. (Econ.) M.Phil & Ph.D	Professor	Political Economy, Economics of Finance, Labour and Development, History of Economic Ideas	17	M.Phil:01 Ph.D:05
Shri. Supriyo Bhattacharya	M.A. (Econ.)	Associate Professor	Comparative Economic System, Development Economics	31	Ph.D:01
Dr. Arundhati Datta	M.A. (Econ.) M.Phil, Ph.D	Associate Professor	Growth and Development Economics, Game Theory, Industrial Productivity	30	M.Phil:03 Ph.D:04
Smt. Bishakha Ghosh	M.A. (Econ.)	Associate Professor	International Economics, Indian Economics	19	M.Phil:03 Ph.D:02
Shri Jaganmoy Basu	M.A. (Econ.)	Associate Professor	Econometrics, Environmental Economics	19	M.Phil:02
Dr. Archita Ghosh	M.A. (Econ.) Ph.D	Associate Professor	Econometrics, International Economics	17	M.Phil:05 Ph.D:04
Dr. Prasenjit Sarkhel	M.Sc. (Econ.) Ph.D	Assistant Professor (Stage III)	Applied Econometrics, Natural Resource and Environmental Economics, Public Policy Evaluation	13	M.Phil:02 (awarded) 01 (ongoing) Ph.D:02 (ongoing)

### 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

#### Visiting Fellows

- Professor Sunanda Sen, Visiting Professor, Jamia Milia Islamia
- Professor Soumendra Kisore Datta, Department of Economics, Burdwan University;
- Professor Maniklal Adhikary, Department of Economics, Burdwan University
- Professor Ajitava Roy Choudhury, Jadavpur University
- Professor Anjan Chakraborty, University of Calcutta
- Dr. Chiranjib Neogi, Economic Research Unit, Indian Statistical Institute, Kolkata
- Dr. Anup Dhar, School of Human Studies, Ambedkar University
- Dr. Biswajit Nag, Indian Institute of Foreign Trade, New Delhi

**Emeritus Fellow**

- Professor Dipiti Prakash Pal, Retired Professor, Department of Economics, University of Kalyani

**ICSSR Fellow**

- Professor Madhusudan Datta, Retired Professor Department of Economics, University of Kalyani

**13. Percentage of classes taken by temporary faculty – programme-wise information**

The Department invited one guest faculty to teach in 4<sup>th</sup> Semester. Approximately **5 percent** of the total class was allotted to the temporary faculty. In Ph.D course work approximately **20 percent** of the total class are allotted to the guest faculties.

**14. Programme-wise Student Teacher Ratio**

Programme/Year	2011-12	2012-13	2013-14	2014-15
M.Sc	11:56	11:44	11:56	8:55
Mphil & Ph.D	11:19	11:19	11:25	8:21

**Note:** Number of students are the sum of all the students in different Semester for each year

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual \*:**

Academic Support Staff/Administrative Staff	Sanctioned	Filled	Actual
Junior Assistant			01
Office Attendant			01
Sweeper			01
Security			01

- There is one casual staff at the rank of Junior Assistant.

**16. Research thrust areas as recognized by major funding agencies**

- Political Economy of Development
- Labour Economics
- Globalization

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

No. of Faculties: **01**

Name	Project Title	Funding Agency	Grant Amount
Prof. Byasdeb Dasgupta	“Class and Caste in India – Theoretical and Empirical Implications”	ICSSR	INR 25 lakhs
	Labour in the context of Imperialism that is a component of the project Imperialism-Old and New		
	“Labour Security in Urban Informal Economy – A Study of West Bengal”	-do-	
Prof. Madhusudan Datta	‘Final Demand, Technical Structure and Reallocation of Value Added: Effects on the Sectoral Shares in GDP in the Indian Economy’	ICSSR (Report submitted in July, 2013)	

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration: 01

b) International collaboration: **NIL**

- The project titled Class and Caste in India funded by ICSSR for the period 2014-16 is a collaborative venture. Professor Byasdeb Dasgupta, Department of Economics, University of Kalyani is the Principal Coordinator of the project and the other two project directors are Professor Anjan Chakrabarti of Department of Economics of University of Calcutta and Dr. Anup Kumar Dhar of Ambedkar University, Delhi. Grant Amount : INR 25 lakhs

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : DRS-I, UGC-SAP (2007-12)****20. Research facility / centre with : NIL**

- state recognition
- national recognition
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil****22. Publications:** List Attached**23. Details of patents and income generated : NA****24. Areas of consultancy and income generated Nil****25. Faculty selected nationally / internationally to visit other laboratories / institutions**

- industries in India and abroad

**Professor Byasdeb Dasgupta**

1. Visiting fellow at the Centre for Economic Studies and Planning of Jawaharlal Nehru University, New Delhi from 8<sup>th</sup> May to 18<sup>th</sup> June, 2002 and from January 1 2013 to January 31 2013;
2. Visiting Professor (DEA) at Maison Science de l'Homme, Paris during 2008,2010,2012,2013

**26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

**Professor Madhusudan Datta**

1. Member of the Executive Committee, Indian Association for Research in National Income and Wealth, 1997-2001.
2. Member of Board of Research Studies, Burdwan University, 2006-2009.
3. Member of Board of Undergraduate Studies, Burdwan University, 2007-2009.
4. Member of University Court, University of Kalyani, one full term of four years early last decade.
5. Member of Faculty Council, University of Kalyani, more than fifteen years.
6. Deputy Chairman, West Bengal State Advisory Council, January-May, 2012.
7. Member of Senate as Representative of the Chairman, Higher Education Council, University of Calcutta, 2011-13.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

The Department organizes two types of workshops: teaching workshops related to new curriculums

and research workshops. In the teaching workshops modifications and proposed revisions in the undergraduate curriculums are discussed with teachers in under graduate colleges. Research Workshops, on the other hand, enable mid-career faculties as well as new researchers to show case their research and obtain feedback from resource persons. The Department has organized two (2) teaching workshops and two(2) research workshops during the period 2009-2014.

## 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects**

As part of the curriculum students undertake projects under the guidance of faculty members. This involves application of economic theory as well statistical and econometric analysis of a chosen topic. A project report is prepared by the students and they have to make presentations to discuss their findings.

- percentage of students doing projects in collaboration with other universities industry / institute**

By the end of second semester many students do internships in corporate bodies as well as public sector enterprises. In the recent past students successfully completed their internships in State Bank of India, United Bank of India and ITC.

## 29. Awards / recognitions received at the national and international level by

### a. Faculty

#### Professor Byasdeb Dasgupta

1. Awarded Indo-China Cultural Exchange Visit to China sponsored by Indian Council for Social Science Research (ICSSR) and Chinese Academy of Social Sciences (CASS) during February-March 2008 for a period of one month.
2. Awarded Indo-French Social Scientist Exchange Programme during October- November 2004, October 2006, April 2008, November 2010, October 2012 and October 2013 for visiting France as DEA (Visiting Professor) of Fondation Maison des Sciences de l'Hommes, Paris.

## 30. Seminars/ Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any.

Conference/Year	2009-10	2010-11	2011-12	2012-15
International Conference	Globalisation, Development and Emerging Market Economies funded by UGC and RBI	Nil	Globalization and Economic Development	Professor Guilhem Fabre of Fondation des Maison de l'Sciences Hommes (FMSH), Paris delivered the Distinguished Series Lecture of the University on ' <b>The Present Economy of China</b> ' Prof. Maria Christina Marcuzzo of the University of Rome, delivered a lecture on ' <b>The Relevance of Keynes Today</b> '
National Conference	Global Financial Crisis funded by UGC	a)Global Capital Flows and Economic Development  b)Emerging Issues in Development	Globalization, FDI and Economic Development	Emerging Issues in Economic Development .



Conference/Year	2009-10	2010-11	2011-12	2012-15
Workshop	a) Workshop on Theories and Empirical Issues in Economics  b) Course Curriculum in Commerce and Economics both funded by UGC	A three-day workshop on the New Undergraduate Syllabus of Economics of the University of Kalyani		One-Day Research Scholars' Workshop on Economics
<b>Total</b>	<b>04</b>	<b>03</b>	<b>02</b>	<b>03</b>

### 31. Code of ethics for research followed by the departments

UGC regulation on minimum standards and procedure for the award of MPhil and Ph.D (2009) are followed. In addition the Departmental Research Committee regulates the research of the students to ensure that the standard code of ethics including avoidance of plagiarism and non-violation of the basic rights of the subjects of research are ensured.

### 32. Student profile programme-wise:

Name of the Programme/Year	Application Received	Selected		Pass Percentage for 4 <sup>th</sup> Semester (2013-14)	
		Male	Female	Male	Female
MSc (2014-15)	101	10	29	95	90
M.Phil (2015-16)		2	2		

### 33. Diversity of Students : Data not Available

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Data not available

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	As the department runs only PG courses this is not applicable.
PG to M.Phil.	Data not available
PG to Ph.D.	-do-
Ph.D. to Post-Doctoral	<b>NIL</b>
Employed	There is no separate campus selection for the Department of Economics. Other recruitment data are not available.
<input type="checkbox"/> Campus selection	
<input type="checkbox"/> Other than campus recruitment	
Entrepreneurs	Data not available

**36. Diversity of staff**

Percentage of Faculty who are graduates	
Of the same university	22
From other universities within the state	78
From other universities outside the state	0
From universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :** 04 (Four); Ph.D degrees

**38. Present details of departmental infrastructural facilities with regard to**

- Library : NIL, Departmental Library has been merged with the Central Library of the University from 2013;
- Internet facilities for staff and students: All the faculties have separate computers with internet connections in their room. Internet facilities are provided to the students in the computer lab where they can browse additional study materials and reading materials.
- Total number of class rooms : 07 (Seven)
- Class rooms with ICT facility: The seminar room is often used for taking class whenever the curriculum requires ICT based teaching. Applications of empirical techniques are carried out in Computer Lab. However, none of the rooms designated for classes have ICT facility.
- Students' laboratories : 01; Computer Lab
- Research laboratories : Not Applicable

**39. List of doctoral, post-doctoral students and Research Associates**

- from the host institution/university : Data not available
- from other institutions/universities : Data not available

**40. Number of post graduate students getting financial assistance from the university. :** 06 (Six)

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

No new programmes have been developed. However, strengthening and modification of the existing programmes are intensively discussed among the faculty members and appropriate measures are taken.

**42. Does the department obtain feedback from**

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes. The Departmental Committee considers the viewpoints/suggestions of the faculties and encourage intensive discussions at regular intervals. The feedbacks are then utilized to bring about necessary changes in the teaching-learning-evaluation process.

- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The procedure of eliciting student feedbacks on teaching and curriculum has been introduced. Feedbacks are also obtained during class hour and one to one interaction with the faculties and students. The issues are raised in the Departmental Committee meeting and appropriate measures are undertaken to address the areas of concern.

- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Presently, no alumni feedbacks are obtained regarding the programmes. However, the Department attempts to ensure full compliance with the University directive/guidelines/regulations and rules regarding the programmes.

**43. List the distinguished alumni of the department (maximum 10)**

- (i) Arabinda Ghosh, IAS, worked as Deputy Director, Administrative Training Institute, Salt Lake.
- (ii) Saptarshi Mukherjee worked jointly as Post Doctoral Fellow, Universitat Autònoma de Barcelona and Fellow (Assistant Professor) Markets Organizations and Votes (MOVE), Universitat Autònoma de Barcelona. Currently working as Assistant Professor, Indraprastha Institute of Technology, New Delhi.
- (iii) Rupayan Pal, Associate Professor, Indira Gandhi Institute for Development Research, Mumbai.
- (iv) Poulomi Bhattacharya, Faculty, Tata Institute of Social Sciences, Hyderabad.
- (v) Samapti Guha, Associate Professor, Tata Institute of Social Sciences, Mumbai.
- (vi) Prasenjit Ghosh, Impact Assessment Officer, International Crop Research Institute for Semi-Arid Tropics, Hyderabad.
- (vii) Rudrani Bhattacharya, Assistant Professor, National Institute of Public Finance and Policy, New Delhi and Consultant, Asia Development Bank.
- (viii) Gargi Sanati, Assistant Professor, National Institute of Bank Management, Pune.
- (ix) Deepsikha Roy Chowdhury, National Institutes of Health, Arlington, Virginia, USA.
- (x) Sutapa Das (Pal), Research Analyst at Sullivan, Cotter and Associates, Canton, Michigan, USA.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Often times the Department invites foreign visitors as well as faculties in other universities to give invited lectures. This aids in enhancing the exposure of the students. In addition, students also have the opportunity to attend the M.Phil and Ph.D submission lectures whereby they get to know about the state of the art research.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Chalk and Board Lectures
- ICT base teaching
- Case Studies
- Group Presentation and Discussions
- Assignments and Projects

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The Department relies on continuous evaluation to assess the extent of the program uptake among the students. At least 40 percent of the total marks in each paper are allotted for internal assessment and here the student is examined by using various methods like project assignments and presentations in addition to written examinations. The outcomes of internal assessments are discussed among faculty and appropriate measures are suggested and incorporated.

**47. Highlight the participation of students and faculty in extension activities.**

The students of the department participate in NSS and other awareness programs. Some of the faculties are in close interaction with NGO's working in the field of rural development and urban problems.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

The faculties in the department attempt to take their research findings closer to the ground by organizing dissemination lectures. They frequently participate in talk shows in the electronic media on contemporary issues. They also contribute in terms of popular writings in Bengali vernacular so as to explain economic rational of current events in general and understandable terms. The Department also organizes in-house faculty seminar from time to time where departmental colleagues lay out their ongoing research for discussion and comments. Apart from in-house seminars faculties regularly participate in national/international conference and seminars as paper presenters/chair in the technical session. Faculties also act as external experts in various selection boards including West Bengal College Service Commission.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : Nil****50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Department of Economics is the first in the Eastern Region to introduce a course in Population Economics. Subsequently other important courses like Natural Resource and Environmental Economics, Input-Output Analysis, Data Envelopment Analysis and Economics of Money, Banking and Finance has been offered. In terms of research the faculties engage in both theoretical and empirical studies ranging from mainstream economics to political economy. To encourage research the department has brought out a peer reviewed journal-Kalyani University Journal of Economics ISSNNo. 919-2348-9219.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

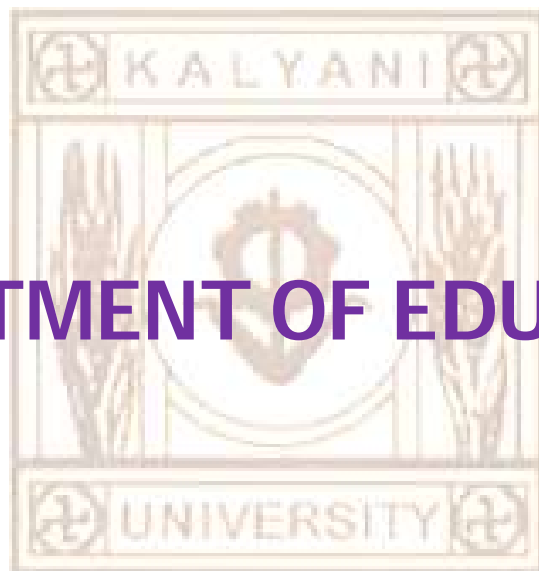
Sl. No	Strengths	Weaknesses	Opportunities	Challenges
1	Teaching Curriculum regularly updated	Fall in Teacher-Student Ratio	Rising demand for the course	Maintain pedagogical excellence
2	Competent faculties of academic repute actively engaged in research	Research Programs fed by students from other universities	Scope for interdisciplinary research	To strengthen the research program by mobilising own students
3	Large body of Alumni placed in Research Institute and Universities both in India and abroad	Lack of involvement of the alumni in placement and academic collaboration	Networking in electronic media as a possible conduit of communication	To form a strong network of alumni and develop research collaboration
4	Internet facilities and access to international journals and e-books	Class rooms are yet to have ICT facilities, Conference room is ill equipped ,and Computers needs servicing	Funds can be generated from University resources as well as externally funded projects	To build up ICT enabled teaching and research.

Sl. No	Strengths	Weaknesses	Opportunities	Challenges
5	Due to its location accessible to large gamut of students from rural origin	Location factor and lack of accommodation facilities creates difficulty in having resource persons/external guest faculties	Video Conferencing based lectures can be arranged in the short run if ICT based facilities are enabled.	To initiate conferences and training courses in regular intervals involving external resource persons

## 52. Future plans of the department.

- Strengthen research potential of post-graduate students to ensure sustainability of the research programs;
- Enhance research and pedagogical skills of the faculty by attending national/international training programs/course-work;
- Generate and mobilize resources through Externally Funded Projects





# DEPARTMENT OF EDUCATION

1. **Name of the Department :** EDUCATION
2. **Year of establishment :** 1958
3. **Is the Department part of a School/Faculty of the university?** Part of the Faculty.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** UG, PG, M.Phil., Ph.D., Ph.D., D. Litt.
5. **Interdisciplinary programmes and departments involved :** N/A
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Distance Mode of IGNOU (Study Centre Code : 2844P)
7. **Details of programmes discontinued, if any, with reasons :**
8. **Examination System: Annual /Semester /Trimester / Choice Based Credit System :** Semester
9. **Participation of the department in the courses offered by other departments :** N/A
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	4
Associate Professors	4	1	2
Assistant Professors	12	5	5
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. / M.Phil. students guided for the last 4 years
Prof. S. Nandi	M. A. (Psychl.), M. A. (Edn.), Ph. D.	Professor	Educational Psychology (Applied Psychology), Teacher Education, Special Education	25	
Prof. J. Mete	M. A. (Geo.), M. Ed., Ph. D.	Professor	Educational Technology, Population Education	25	
Prof. D. P. Sikdar	M.Sc. (Physiol.), M. A. (Edn.), Ph. D.	Professor	Teacher Education, Sc. Education, Health Education, Environmental Education	20	
Prof. D. Bhattacharyya	M. Sc. (Chem.), M. A. (Edn.), Ph. D.	Professor	Teacher Education	15	Awarded -15, submitted – 4, Ongoing – 6
Dr. S. Gour	M. F. A., Ph. D.	Associate Prof.	Art Education, Work Education (Painting, Fine Arts); Craft Education	25	



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. / M.Phil. students guided for the last 4 years
Dr. D. Guha	M. Sc. (Zool.), M. A. (Edn.), Ph. D.	Associate Prof.	Environmental Education, Comparative Education, Educational Management, Educational Psychology	13	Awarded – 4 Ongoing – 4
Dr. B. Sarkar	M. Sc. (Agr.Chem/), M. A. (Edn.), Ph. D.	Asst. Prof.	Research Methodology, Educational Technology, Educational Psychology, Environmental Education	12	Awarded – 2 Ongoing – 4
Sri T. Haldar	M. A. (Hist.), M. A. (Edn.)	Asst. Prof.	History of Education, Teacher Education	10	Awarded – 1 Ongoing - 6
Dr. A. C. Das	M. Com, M. A. (Edn.), Ph. D.	Asst. Prof.	Educational Measurement & Evaluation	10	
Dr. S. N. Sarkar	M. A. (Edn., Eng., Beng., Envs.), M. Phil.(Edn.) Ph. D.	Asst. Prof.	Comparative Education, Environmental Education, History of Education, Teacher Education	8	
Dr. A. Paul	M. Sc. (Phy.) M. A. (Edn.) Ph. D.	Asst. Prof.	Educational Technology	8	

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil**

**13. Percentage of classes taken by temporary faculty – programme-wise information : N/A**

**14. Programme-wise Student Teacher Ratio :**

M. A. / M. Sc.	B. Ed.	M. Ed.	M. Phil.	Ph. D.
10 : 1	25 : 1	12 : 1	1 : 1	8 : 1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Technical Staff	Administrative Staff
02	05

**16. Research thrust areas as recognized by major funding agencies : N/A**

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :** N/A
18. **Inter-institutional collaborative projects and associated grants received :** Nil
  - a) National collaboration
  - b) International collaboration
19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :** Nil
20. **Research facility / centre with :** Nil
  - state recognition
  - national recognition
  - international recognition
21. **Special research laboratories sponsored by / created by industry or corporate bodies :** Nil
22. **Publications :**
  - ☐ Number of papers published in peer reviewed journals (national / international) : 22+20
  - ☐ Monographs : 20
  - ☐ Chapters in Books ☐ 42 Edited Books - Nil
  - ☐ Books with ISBN with details of publishers : 20
  - ☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : Nil
  - ☐ Citation Index – range / average ☐ Nil
  - \* SNIP
  - ☐ SJR
  - ☐ Impact Factor – range / average
  - ☐ h-index : Nil
23. **Details of patents and income generated :** Nil
24. **Areas of consultancy and income generated :** Nil
25. **Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad :** Nil
26. **Faculty serving in**
  - a) National committees : Prof. S. Nandi, Prof. J. Mete, Prof. S. Gour.
  - b) International committees : Nil
  - c) Editorial Boards : Prof. S. Nandi, Prof. D. P. Sikdar, Prof. J. Mete, Prof. D. Bhattacharyya, Dr. B. Sarkar
  - d) Any other (please specify) : Board of Studies, Board of Selection, Faculty Council.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :** Staff are regularly attending Refresher, Orientation programmes and Workshops conducted by Universities/Academic Staff College. They are also encouraged to attend different Seminars / Workshops at National and International levels.

**28. Student projects :**

- percentage of students who have done in-house projects including inter-departmental projects : There are provisions for all students (100%) project /dissertation in all programmes running in the department.
- percentage of students doing projects in collaboration with other universities/ industry / institute

**29. Awards / recognitions received at the national and international level by : Nil**

- Faculty
- Doctoral / post doctoral fellows
- Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any. :**

Seminar-cum-Workshop on B. Ed. new curriculum 2015-2017 held on 24.11.15 and the participants are from all affiliated B. Ed. colleges (No. of participants : more than 200).

Programme	Duration	Organized by	Funding Agency
Research Methodology Workshop	13 <sup>th</sup> to 20 <sup>th</sup> June, 2012	Department of Education	CTE, MHRD
Curriculum and Pedagogical Practice	1 <sup>st</sup> March to 6 <sup>th</sup> March, 2012	Department of Education	CTE, MHRD
Modification of Teacher Education Curriculum	12 <sup>th</sup> Dec., 2012 to 19 <sup>th</sup> Dec., 2012	Department of Education	CTE, MHRD
Reality & Practices of NCTE Curriculum, 2009 in the light of National Curriculum Framework - 2005	22 <sup>nd</sup> Sept., 2011 – 23 <sup>rd</sup> Sept., 2011	Department of Education	CTE, MHRD
Thoughts & Ideas of Swami Vivekananda on Education	18 <sup>th</sup> – 19 <sup>th</sup> April, 2012	Department of Education	CTE, MHRD
Prof. Gouranga Saha Extension Lecture : Lincolon University Science & Education	April, 2012	Department of Education	Kalyani University

**31. Code of ethics for research followed by the departments :** This is followed by University's new M. Phil. / Ph. D. regulation and UGC guidelines.

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4) (2014-15)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.Phil. (2015 + 17)	60	8	2	NA	NA
Ph. D.	280	10	8	NA	NA
B.Ed.	13060	62	38	100%	100%
M.Ed.	400	9	25	88.8%	100%
MA/M.Sc (Education)	450	33	36	94%	94%

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B. Ed.	60	40	NA	NA
M. Ed.	60	40	NA	NA
M. A. (Edn.)	60	40	NA	NA

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. :**

NET	SET
10	12

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	N/A
PG to M.Phil.	14%
PG to Ph.D.	50%
Ph.D. to Post-Doctoral	N/A
Employed	
<input type="checkbox"/> Campus selection	N/A
<input type="checkbox"/> Other than campus recruitment	Not less than 30%
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	60%
from other universities within the State	40%
from universities from other States	Nil
from universities outside the country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil****38. Present details of departmental infrastructural facilities with regard to**

- Library : Yes
- Internet facilities for staff and students : Yes
- Total number of class rooms : 12
- Class rooms with ICT facility : 1
- Students' laboratories : 3
- Research laboratories : Yes

**39. List of doctoral, post-doctoral students and Research Associates :****a) from the host institution/university :****List of Doctoral Students :**

1. Bubly Sarkar	11. Suchandra Samanta Mondal
2. Jayita Pramanik	12. Md. Afsar Ali
3. Lopamudra Saha	13. Mrinal Kanti Basak
4. Amlan Ganguly	14. Santosh Mukherjee
5. Amit Chowdhury	15. Sukanta Biswas
6. Rakhi Bhattacharya	16. Papiya Upadhyay
7. Manjuri Bhattacharya	17. Amal Kumar Sarkar
8. Tania Sengupta	18. Sulagna Sen
9. Bijeta Halder	19. Arun Kumar Singha
10. Sanjoy Mukherjee	20. Manisankar Roy

**b) from other institutions/universities : Nil****40. Number of post graduate students getting financial assistance from the university. : Nil****41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : National Level Workshop on B. Ed. new curriculum, 2014.**

Department organises different meeting and workshops before developing any curriculum on UG and PG levels.

**42. Does the department obtain feedback from :****a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes**

Feedback obtained by questionnaire. This feedback is helpful for preparation of curriculum (B. Ed., M. A., M. Phil., Ph. D. etc.)

**b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes**

The reports by students are considered and the faculty are advised to adopt a teaching methodology which will about a teacher then he / she is advised to take special efforts to prepare very well for lectures and to monitor the understanding of concepts by the students.

**c. alumni and employers on the programmes offered and how does the department utilize the feedback? Yes**

The feedback is obtained from the students and employees at periodic intervals, especially during annual meetings. The feedback is used for improvement in curriculum development and syllabus modification. It is helpful for further development of institutions so as to improve quality of teaching, research and extension activities.

**43. List the distinguished alumni of the department (maximum 10)**

Name	Designation
Prof. S. K. Ghosh	Dean, Rabindra Bharati University, Kolkata
Prof. Bharati Banerjee	Professor, Rabindra Bharati University, Kolkata
Prof. Subrata Saha	Professor, Rabindra Bharati University, Kolkata
Prof. Malay Kr. Sen	Professor, University of Calcutta, Kolkata
Prof. Banamali Tripathi	Ex. Secretary, H. S. Council, West Bengal

Name	Designation
Dr. S. S. Bairagya	Ex. V. C. (Charge), Gour Banga University
Dr. Sanjiban Sengupta	OSD, DPI, Govt. of West Bengal
Prof. Debjani Sengupta	Professor, University of Calcutta

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :**

- CTE programme.
- Seminar-cum-Workshop on B. Ed. new curriculum 2015-2017 held on 24.11.15

**45. List the teaching methods adopted by the faculty for different programmes.**

Lecture Method, Seminar, Group Discussion, Brain Storming, Symposia, Team Teaching, Demonstration, CAI.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Continuous Internal Assessment Test.

**47. Highlight the participation of students and faculty in extension activities.**

The faculty delivered special chaired sessions in seminars, conducted workshops in various colleges of Education in and around Nadia and Murshidabad districts as well as in other parts of West Bengal.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

The department conducts Seminars, Workshops, Extension Lecture and published journals.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Yes**

UGC and NCTE

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has taken several steps in imparting the skill and art of teaching to students and it has been monitored by using microteaching methods.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths :**

- The department trains the teacher trainees to become ethically upright technologically sound and socially sensible.
- Develops the appropriate teaching skills among the students so that the students get better employment immediately.

**Weakness :**

- For the present online teaching and virtual classroom facilities are not available.
- Lesser halls with LCD facility.
- Lesser interactions at international levels by conferences.

**Opportunities :**

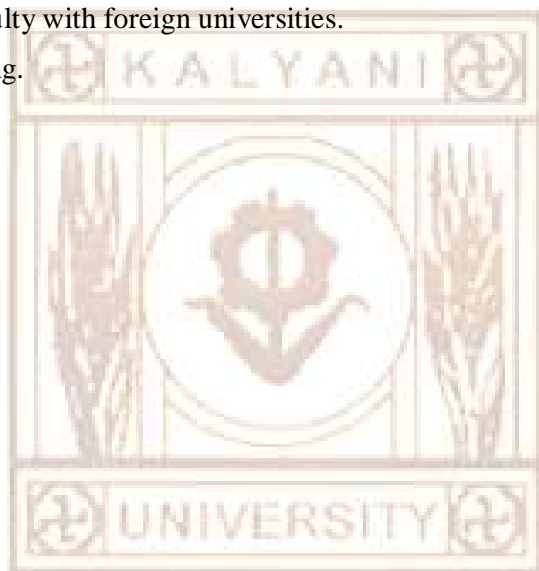
- The department provides ample scope for the teacher trainees to get employed.
- The department promote the right value among the students.
- The department conducts coaching classes for the SC / ST students.
- There are ample score for the students to develop their skill in operating and utilising electronic teaching gadgets.

**Challenges :**

- To provide technology-rich classroom teaching.
- To provide training to all the faculty members in the use of technology
- To provide Wi-fi facilities in the department.

**52. Future plans of the department.**

- To link with the students of other countries.
- To exchange the faculty with foreign universities.
- To develop E-learning.





The logo of Kalyani University is a square emblem. At the top, a horizontal band contains the word 'KALYANI' in capital letters, flanked by two circular symbols containing a stylized 'K'. The central part of the emblem features a circular design with a lotus flower in the middle, surrounded by two vertical bands of stylized palm trees. At the bottom, another horizontal band contains the word 'UNIVERSITY' in capital letters, also flanked by the same circular 'K' symbols.

## DEPARTMENT OF ENGINEERING & TECHNOLOGY STUDIES

1. **Name of the Department:** Department of Engg. & Technology Studies
2. **Year of establishment** : 1978
3. **Is the Department Part of a School/Faculty of the University?** Yes  
Faculty of Engg. Tech. & Management
4. **Names of programmes offered:**  
UG: 4 Year B.Tech in Information Technology  
4 Year B.Tech in Electronics & Instrumentation Engineering  
PG: 2 Year M.Tech in Communication Engineering  
Ph.D (Engg.)
5. **Interdisciplinary programmes and departments involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programmes discontinued, if any, with reasons:**  
1 year PG Diploma (1996), for starting the 2 year PG Diploma Course  
2 year PG Diploma (2000), for starting the B.Tech Course
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Semester based Credit System
9. **Participation of the department in the courses offered by other departments:** No
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (Including CAS & MPS)
Professor	1	Nil	3
Associate Professors	3	1	1
Asst. Professors	6	6	3
Others	-	-	-

11. **Faculty profile with name, qualification, designation, area of specialization experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil. Students guided for the last 4 years
Dr. Partha Pratim Sarkar	B.E., M.E., Ph.D	Professor	ECE	25	Ph.D-7
Dr. Sushanta Biswas	B.E., M.E., Ph.D	Professor	ECE	23	Ph.D-1
Dr. Debasree Chanda Sarkar	B.E., M.E., Ph.D	Professor	ECE	22	Ph.D-3
Dr. Sanjoy Das	B.E., M.E., Ph.D	Associate Professor	Mechanical Engineering	22	
Dr. Nabin Ghoshal	MCA, M.Tech, PhD	Assistant Professor	Computer Science	15	

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil. Students guided for the last 4 years
Dr. Sushanta Sarkar	B.E., M.Tech., Ph.D	Assistant Professor	ECE	Full Time Research -5 Years	
Smt. Srinka Basu	B.Tech, M.E	Assistant Professor	Computer Science	Industry – 7 Years	

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:** Nil

**13. Percentage of classes taken by temporary faculty- programme-wise information:**

Around P.G-0%, U.G. – 50%

**14. Programme-wise student Teacher Ratio :** P.G. – 6:1, U.G.-10:1

**15. Number of academic support staff (technical) and administrative staff: Sanctioned, filled and actual**

Staff	Sanctioned	Filled	Actual
Staff (Technical)	16	4	2
Staff Administrative	02	02	01

**16. Research thrust areas as recognized by major funding agencies:**

Frequency Selective Surfaces, Microstrip Antenna, Artificial Neural Network, Network Security, Tribology

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.** Nil

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration Nil  
b) International collaboration Nil

**19. Departmental projects funded by DST-FIST; UGC/SAP/CAS, DPE; DBT, ICSSR, AICTE, etc. :** total grants received Rs. 2.16 Crore received in 2014-15 from Govt. of West Bengal for development of infrastructure for UG courses.

**20. Research facility/centre with**

State recognition, National recognition, International recognition  
Nil

**21. Special research laboratories sponsored by / created by industry or corporate bodies :** Nil

**22. Publication:**

- \* Number of papers published in peer reviewed journals (national/ international): 128
- \* Monographs
- \* Chapters in Books
- \* Edited Books

- \* Books with ISBN with details of publishers

Title: Steganographic Techniques and Application in Document Authentication: Algorithmic view on Steganography for Research work.

Author: Nabin Ghoshal (Main Author), J. K. Mandal

Publisher: LAP LAMBERT Academic Publishing, German, ISBN 978-3-8454-2919-9

- \* Number listed in international Database (For e.g. web of science, scopus, humanities International complete, Dare Database – International Social Sciences Directory, EBSCO hosts, etc.):
- \* Citation Index – range / average
- \* SNIP
- \* SJR
- \* Impact Factor – range / average 0.625
- \* h- index 8

### 23. Details of patents and income generated

One patent application pending

Sushanta Sarkar, Partha Pratim Sarkar, “A NOVEL TECHNIQUE FOR FABRICATION OF SINGLE LAYER FREQUENCY SELECTIVE SURFACES USING PAPER BASED MATERIALS AND LASER CUTTING MACHINES”, *Indian Patent application number 271/KOL/2012*

### 24. Areas of consultancy and income generated : NA

### 25. Faculty selected nationally/internationally to visit other laboratories/ institutions / industries in India and abroad

NA

### 26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other

Nil

### 27. Faculty recharging strategies (UGC, ASC, Refresher/ orientation programs, workshops, training programs and similar programs).

Faculty members have attended 6 orientation programs in last four years.

### 28. Student projects

Percentage of students who have done in-house projects including interdepartmental projects

100%

Percentage of students doing projects in collaboration with other universities/ industry/ institute

Nil

### 29. Awards/ recognitions received at the national and international level by Faculty Doctoral / post doctoral fellows /Students Nil

### 30. Seminars/ conferences/ workshops organized and the source of funding (national / international) with details of outstanding participants, if any. Nil

### 31. Code of ethics for research followed by the departments

As per instruction given by the funding agency and the University authority

**32. Student profile programme-wise:**

Name of the programme (refer to question no.4)		Applications received	Selected			Pass Percentage	
			Year	Male	Female	Male	Female
UG (B.Tech)	Electronics & Instrumentation	Application received every year by Joint Entrance Examination Board, Govt. of W.B for selection to the course is atleast 1,00,000 every year during last five years	2010	21	2	100% Consideri ng Final Year Results	100% Considering Final Year Results
			2011	21	4		
			2012	31	6		
			2013	20	2		
			2014	20	02		
	Information Technology		2010	15	5	100% Consideri ng Final Year Results	100% Considering Final Year Results
			2011	22	3		
			2012	34	8		
			2013	15	3		
			2014	19	3		
		2015	22	01			
2 Year M.Tech (Communication Engg.)		More than 150 applications per year	2010	5	2	100% Consideri ng Final Year Results	100% Considering Final Year Results
			2011	6	2		
			2012	4	2		
			2013	3	3		
			2014	3	3		
			2015	5	2		

**33. Diversity of Students (PG only)**

Name of the Programme (refer to question no.4)	% of students from the other university	% of students from same universities within the state	% of students from universities outside the State	% of students from other countries
2010	58	42	0	0
2011	88	12	0	0
2012	67	33	0	0
2013	100	0	0	0
2014	83	17	0	0
2015	43	57	0	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

2012	17
2013	10
2014	11
2015	10

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	40%
PG to M.Phil.	Nil
PG to Ph.D	(2012-67% 2013-62% 2014-50%)
Ph.D. to Post-Doctoral	-
Employed Campus Selection Other than campus recruitment	Very few More than 70 %
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates Of the same university	14%
From other universities within the State	86%
From universities from other states from	Nil
Universities outside the country	NIL

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period** 1 (one)**38. Present details of departmental infrastructural facilities with regard to**

- a) Library No
- b) Internet facilities for staff and students Yes
- c) Total number of class rooms 5
- d) Class rooms with ICT facility 0
- e) Students' laboratories 7 (In 7 rooms 30 labs subjects are performed)
- f) Research laboratories 3

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university:

Sl no.	Name
1	Poulami Samaddar
2.	Nurnihar Bengam

- b) From other institutions /Universities :

Sl no.	Name
1	Anirban Goswami
2.	Sudip Mondal
3.	Santanu Mandal
4.	Sudipta Das
5.	Kalyan Mandal
6.	Mahuya Panda
7.	Soham Sengupta
8.	Bivas Roy
9.	Krishna Gopal Dhal
10.	Priyabrata Biswas

**40. Number of post graduate students getting financial assistance from the university.**

All GATE qualified PG students getting assistance from AICTE

**41. Was any need assessment exercise undertaken before the development of new programme (s)? If so, highlight the methodology.** No**42. Does the department obtain feedback from?**

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, from the feedback proper action is taken by the department

- b) Students or staff, on curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, from the feedback proper action is taken by the department

- c) Alumni and employers on the programmes offered and how does the department utilize the feedback ?

**43. List the distinguished alumni of the department (maximum 10)**

Abhijit Biswas (B.Tech (EIE) ) has been selected for Post Doctorate in Massachusetts Institute of Technology

**44. Give details of student enrichment programmes (special lectures/workshops/seminar) involving external experts.**

Nil

**45. List the teaching methods adopted by the faculty for different programmes.**

Teaching assisted by chalk and black board, LCD projector

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Feedback from students are obtained on regular basis.

**47. Highlight the participation of students and faculty in extension activities.**

Students and faculty members are very much active in discussing the academics off the classrooms

**48. Give details of “beyond syllabus scholarly activities” of the department.**

The students and faculty members are constantly trying to implement projects involving latest technology which are not included in the course.

**49. State whether the programme/department is accredited/graded by other agencies? If yes, give details.**

No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :**

The department is actively involved in the research work.

**51. Detail five major strengths, weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:** -Good work coordination among faculty members

**Weakness:** - All the faculty members are overloaded with classes.

**Opportunities:** - As the department belongs to rural university, the expenses for studying at this department are very low when compared with other engineering institutes.

**Challenge:** - As the department is a part of a rural University, funds for development of the department for maintaining the quality of the courses at par with other institutes of repute is the biggest challenge for the department.

**52. Future plans of the department.**

New courses are to be introduced.



# DEPARTMENT OF ENGLISH



1. **Name of the Department:** English.
2. **Year of establishment:** 1960.
3. **Is the Department part of a School/Faculty of the university?** Faculty.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.):** PG, PhD, D.Litt.
5. **Interdisciplinary programmes and departments involved:** PG, PhD (Several optional courses & research areas are interdisciplinary)
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Communicative English at the Indian Institute of Information Technology (IIIT) and Indian Institute of Science and Educational Research, Kolkata (IISER Kol).
7. **Details of programmes discontinued, if any, with reasons:** [MPhil; after PhD with course work introduced].
8. **Examination System:** Annual/Semester/Trimester/Choice Based Credit System: Semester.
9. **Participation of the department in the courses offered by other departments:**  
 Department of Engineering & Technological Studies  
 Department of Computer Science and Engineering  
 Department of Business Administration  
 Department of Rural Development and Management  
 Women's Studies Centre  
 Cultural Studies Centre  
 Rabindra Adhyayan Kendra
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Posts	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	3
Associate Professors	2	2	2
Asst. Professors	10	7	NA
Others (Guest Faculty)	2	2	NA

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualifi- cation	Designation	Specialization	Years of Experience	No. of PhD/ MPhil students guided for last 4 years
Ashok Sengupta	MA	Professor	American Literature, Film and Culture Studies	37+	3
Sarbani Chaudhury	MA; MPhil; PhD	Professor	Renaissance Lit., Popular Culture; Shakespeare, Drama,	33+	11 (5 awarded)

Name	Qualification	Designation	Specialization	Years of Experience	No. of PhD/ MPhil students guided for last 4 years
			Women's Literature		
Niladri Ranjan Chatterjee	MA; PhD	Professor	Gender Studies, Queer Studies, Masculinity Studies	19+	4
Sharmila Majumdar	MA	Assoc. Professor	American Lit., Indian Writing in English	31	7 (1 awarded)
Baishali Hui	MA; PhD; M.A., Ph. PGCTE	Assoc. Professor	Linguistics, English Language Teaching, Indian Writing in English, Translation Studies	13+	4
Sandip Mondal	MA; PhD	Assoc. Professor	American Drama, 19 <sup>th</sup> British literature, Film-literature interface	11	2
Sagar Taranga Mandal	MA, MPhil	Asst. Professor	Postcolonial Literature, Diaspora Studies, Graphic Novel	3+	Nil
Dhrubajyoti Sarkar	MA; PhD	Asst. Professor	Victorian Studies, Lit. of the Raj, Religion-Culture Interface	8	4
Kuntal Bag	MA	Asst. Professor	Film Adaptation , Cultural Studies	3 months	Nil
Ishita Roy	MA, MPhil	Asst. Professor	Dalit Studies, Post Colonialism	1	Nil

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors:** Nil.

13. **Percentage of classes taken by temporary faculty – programme-wise information:**  
Three classes per week per semester in MA.

14. **Programme-wise Student Teacher Ratio:**

Year (All Semesters)	Students	Teachers
2012	19.7	1
2013	18.8	1
2014	19.5	1
2015	13.2	1

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

Posts	Sanctioned	Filled	Actual
Senior Assistant	1	0	0
Junior Assistant	1	1	2 (1 casual)
Office Attendant	1	0	0
Sweeper	1	1	1
Record Supplier	0	0	1

16. **Research thrust areas as recognized by major funding agencies:** Shakespeare.

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received.** Give the names of the funding agencies, project title and grants received project-wise: National: UGC; Rs. 11,49,600/-; "Shakespeare Criticism in Bengal, 1947-1980: Retrieval, Archiving and Interrogation".

18. **Inter-institutional collaborative projects and associated grants received:** Nil.

a) National collaboration

b) International collaboration

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** Nil.

20. **Research facility / centre with:** NA.

- state recognition
- national recognition
- international recognition

21. **Special research laboratories sponsored by / created by industry or corporate bodies:** NA.

22. **Publications:**

Number of papers published in peer reviewed journals (national / international): 30.

Monographs: Nil.

Chapters in Books: 31.

Edited Books 1.

Books with ISBN with details of publishers

Number listed in International Database (For *e.g.* Web of Science, Scopus,

Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) NA.

Citation Index – range / average: 2. SNIP—

SJR

Impact Factor – range / average

h-index

23. **Details of patents and income generated:** NA.

24. **Areas of consultancy and income generated:** NA.

25. **Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad:** Prof. Ashok Sengupta, Prof. Sarbani Chaudhury, Prof. Niladri Ranjan Chatterjee, Dr. Baishali Hui, Dr. Dhrubajyoti Sarkar.

26. **Faculty serving in**

• **National committees:**

Prof. Sarbani Chaudhury: Core Group Resource Person, UGC scheme of Capacity Building for Women Managers in Higher Education for Bengal, Bihar and Jharkhand. Prof. Niladri Ranjan Chatterjee, Charter Member, Centre for Studies in Romantic Literature, Kolkata. Smt Sharmila Majumdar, Secretary, English Department Alumni Association, Kalyani University.

- **International committees:**

Prof. Sarbani Chaudhury: International Committee of Correspondents, *World Shakespeare Bibliography Online* (Johns Hopkins University & *Shakespeare Quarterly*; Founding Member, Asian Shakespeare Association, 2013.

- **Editorial Boards:**

Prof. Sarbani Chaudhury: *Multicultural Shakespeare* (University of Lodz, Poland); Advisory Board, *Glocal Colloquies* [[http://glocalcolloquies.com/?page\\_id=92](http://glocalcolloquies.com/?page_id=92)]; Advisory Board, *Anudhyan*. Prof. Niladri Ranjan Chatterjee, Editorial Board, *American Notes and Queries*, Taylor & Francis Publication.

Any other: Dr. Sarbani Chaudhury: Assistant Secretary, Punarnaba Kolkata: A Social Organisation.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):** 3 (Refresher Programme); 4 (Orientation Programme).

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects: 100% (mandatory for all students to do in-house projects for postgraduate course)
- percentage of students doing projects in collaboration with other universities/ industry / institute: Nil.

**29. Awards / recognitions received at the national and international level by**

- Faculty: 4.
- Doctoral / post doctoral fellows: 2 JRF; URS scholar: 3 publications; 6 paper presentations.
- Students: 1 MA student: 2 paper presentations; 2 MA students: national debate participants; 5 MA students: National Youth Festival 2012, 1<sup>st</sup> in Drama Competition; Zonal Youth Festival 2013 & 2014, 1<sup>st</sup> in Drama Competition.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any: National**

Sl. No.	Category	Date	Funding Agency	Title/ Topic
1.	Workshop	11-12.3.2015	UGC	Curriculum Workshop (UG and PG)
2.	„	17-22.2. 2015	RGNIYD	Capacity Building for Women Managers in Higher Education(Scheduled Cast, Scheduled Tribe)
3.	„	6.10.2015	Sappho for Equality	Gender: Sexuality and Violence
4.	„	7-10.1.2014	UGC	‘The Moving Image: A National-level Workshop’
5.	Seminar	21-22.9. 2013	UGC	‘Cultural Studies: Theory and Praxes’ in collaboration with Behrampur Girls’ College
6.	Visiting Faculty Lectures	30.3.2015	Dept. contingency	‘French Literature’ by Pierre Freha, Visiting French author, Paris
7.	„	26.2.2015	„	‘Marginal Women’s Writing: Their Reality’ by Dr. Shoma Sen, RTM Nagpur University
8.	„	16.1.2015	„	‘Polish Theatre during World War II’ by Prof. Krystyna Kujawska Courtney, University of Lodz, Poland
9.	„	16.1.2015	„	‘Macbeth: Two Questions, or, Editing for

Sl. No.	Category	Date	Funding Agency	Title/ Topic
				Performance' by Prof. Duttatreya Dutta, Rabindra Bharati University
10.	Lecture Series	8.12. 2015	UGC	'Renaissance Drama' by Prof. Duttatreya Dutt, Rabindra Bharati University
11.	„	14.10. 2015	„	'Body-fetisization & Image Re/production in Kumartoli' by Dylan L. Lowry, Fulbright Nehru Student Research Scholar
12.	„	13.10. 2015	„	'New Gender Studies' by Dr. Ipsita Halder, Jadavpur University
13.	„	12.10. 2015	„	'Indian Writing in English' by Prof. Himadri Lahiri, University of Burdwan
14.	„	25.8. 2015	„	'Modernity & Yeats' by Sri Tirthankar Chattopadhyay, Retd., University of Kalyani
15.	„	24.7.2015	„	'Colonial Impact on India' by Prof. Rattan Lal Hangloo, VC, University of Kalyani

31. **Code of ethics for research followed by the departments:** Emphasis on original research in innovative and traditional fields; maintenance of time schedule, strict monitoring of plagiarism.

**32. Student profile programme-wise:**

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
(refer to question no. 4)					
M.A. (2014-15)	No data available	44	43	87	91
PhD (2014-15)	67	2	0	Ongoing	Ongoing -

**33 Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.A. (2014-15)	60	40	0	0
PhD (2014-15)	2	0	2	0

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations?**

List of Successful NET/SET Candidates: Total 23	
CATEGORY: General	CATEGORY: SC
1. Shubhaiyu Chakraborty	1. Manas Moulic
2. Chirantan Sarkar	2. Pijush Bhadra
3. Srotoswini Dey	3. Lilack Biswas
4. Sukanta Burman	4. Suchismita Sarkar
5. Anirban Bhattacharjee	5. Sarm ILA Paul
6. Arpita Ghosh	6. Bula Rani Howlader

List of Successful NET/SET Candidates: Total 23	
7. Subhranjali Barik	7. Umashankar Roy
CATEGORY: OBC A	8. Suchismita Halder
1. Kamrunnessa Khatun	9. Sudipta Mondal
CATEGORY: OBC B	10. Tapan Mandal
1. Shilpi Basak	11. Biswajit Debnath
2. Kajal Sutradhar	12. Mahitosh Biswas
	13. Sanjoy Das
List of Successful Candidates in Civil Services and Defense Services	
Kaushik Pramanik (WBCS)	Supratip Chakraborty (CAG)
Debabrata Roy (WBCS)	

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	33%
PG to M.Phil.	NA
PG to Ph.D.	05 %
Ph.D. to Post-Doctoral	NA
Employed	
<input type="checkbox"/> Campus selection	90 % upto 2012; 40 % after 2012
<input type="checkbox"/> √Other than campus recruitment	
Entrepreneurs	6 %

### 36. Diversity of staff:

Percentage of faculty who are graduates of the same university: 1  
 from other universities within the State: 6  
 from universities from other States: 3  
 from universities outside the country: Nil.

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: PhD – Dr Niladri R. Chatterjee, Dr. Sandip Mondal

### 38. Present details of departmental infrastructural facilities with regard to

- Library: Project library since 2011; Departmental Library till 2014.
- Internet facilities for staff and students: 12 computers including 6 with internet connection.
- Total number of class rooms: 6.
- Class rooms with ICT facility : 2
- Students' laboratories: NA.
- Research laboratories: 1 room dedicated for research projects.

### 39. List of doctoral, post-doctoral students and Research Associates

Sl. No.	Name	Date of Registration /Admission	Supervisor	Area of Research/Title of the Thesis
1.	Arun Kumar Biswas	21.7.2011	Prof. Nila Das/Smt. Sharmila Majumder	"Rural Ethos at the Intrusion of Industrial Enterprise"



Sl. No.	Name	Date of Registration /Admission	Supervisor	Area of Research/Title of the Thesis
2.	Ambarish Sen	21.7.2011	Prof. Nila Das/ Dr. Sandip Mondal	"The Marginalised in the Fictions of Amitav Ghosh, Salman Rushdie and Rohinton Mistry"
3.	Ramprasad Roy	Awarded 2015	Prof. Sarbani Chaudhury	"Women in the Short Stories of D. H. Lawrence, Katherine Mansfield and Virginia Woolf"
4.	Suparna Bhattacharya	Re-registration 25.1.2011	Prof. Sarbani Chaudhury	"Nation, Women and Fairy Tales: A Reading of the First-wave Fairy Tales in Europe & Bengal."
5.	Basudeb Chakraborty	Re-registration 25.1.2011	Prof. Sarbani Chaudhury	"Individuality and Conformity in the Plays of Harold Pinter and Mahesh Dattani."
6.	Jhulan Dasgupta	21.7.2011	Prof. Sarbani Chaudhury	"Theory, Fiction and Self-projection: A Study of Mary Wollstonecraft's Works."
7.	Surya Shekhar Haldar	14.7.2011	Prof. Sarbani Chaudhury	"Newsworthy Shakespeare: Shakespeare in Pre-independence Newspapers of Bengal."
8.	Prama Bhattacharya	9.7.2013	Prof. Sarbani Chaudhury	"Shakespeare in Bengal: <u>King Lear</u> ."
9.	Abhishek Choudhury	06.02.14	Prof. Sarbani Chaudhury	" <i>Othello</i> in Bengal: Translation/ Adaptation/ Criticism/ Production."
10.	Suparna Guha	5.2.2009 Re-registered 5.2.2014	Prof. Ashok Sengupta	"Possible Worlds, Probable Times: Science Fiction as Alternative Historical Narratives"
11.	Md. Monirul Islam	Re-registered 20.3.2012	Smt. Sharmila Majumdar	"Oriental Wells: The East and the Early Romantic Poet"
12.	Kamrunnessa Khatun	Re-registered 24.4.2013	Prof. Nila Das/ Dr. D.Sarkar	"Encouraging Meaninglessness: A Comparative Study of the Plays of Beckett, Pinter, Ionesco and Adamov"
13.	Partha Sarathi Guha		Smt. Kabita Mukherjee/ Dr. Niladri R. Chatterjee	"A Taste in Crime: Investigating the Art of P. D. James"
14.	Nilanjan Chakraborty	21.7.2011	Dr. Niladri R. Chatterjee	"Myth-Making in the Novels of Chinua Achebe and Amitav Ghosh"
15.	Soma Ray Chaudhury	21.7.2011	Dr. Niladri R. Chatterjee	"Barbed Wire: Objects and Identity in Partition Fiction"
16.	Sayantana Mitra	9.7.2013	Dr. Niladri R. Chatterjee	Desire, Identity and Queerness in Indian "Literature of the 20 <sup>th</sup> Century and After"
17.	Saswata Kusari	9.7.2013	Dr. Niladri R. Chatterjee	"Reframing Masculinities: The Influence of English on Bengali Men"
18.	Biswajit Mukherjee	9.7.2013	Dr. Baishali Hui	"Resistance to Empire The Postcolonial Position of the Translator of Select Texts of Rabindranath Tagore and Sunil Gangopadhyay"
19.	Suddha Kalyan Mondal	9.7.2013	Dr. Baishali Hui	"Agency of Women in Partition Fiction in Bengal since 1947"
20.	Anindita Bhaumick (Santra)	20.03.2012	Prof. Debiprasad Bhattacharya & Smt. Kabita Mukherjee	"Beyond the Border: The Representation of the "Other" in Wilkie Collins's Sensation Novels"
21.	Dipankar Ghosh	06.02.14	Smt. Sharmila Majumdar	"The Great Bengal Famine: Economic and Political History vs Literary Representation"
22.	Ayon Halder	06.02.13	Dr. Dhruvajyoti Sarkar	"The Sacred/ Secular Binary in Select Texts of Colonial Bengal"
23.	Avrajit Dey	13.12.12	Dr. Baishali Hui	"Teaching of Second Language: Writing Strategies at Higher Secondary Schools and Bilingualism"
24.	Anamika Chakraborty	13.12.12	Smt. Sharmila Majumdar	"Representation of Women in Select Diasporic Novels of Chitra Banerjee Divakaruni"
25.	Sarmila Paul	13.12.12	Dr. Baishali Hui	"The Politics of Translation with Special Reference to Selected Short Stories of

Sl. No.	Name	Date of Registration /Admission	Supervisor	Area of Research/Title of the Thesis
				Mahasweta Devi"
26.	Tandrima Guha	4.2.2011	Prof. Basudeb Chakraborti/ Dr. Baishali Hui	"Women in Tagore's Novels and Plays in English Translation: A Study from Sociolinguistic Perspectives"
27.	Suryendu Chakrabarty	[A] 2014	Prof. Ashok Sengupta	"'To Other Women Who Were Ugly Once': Race, Class and Gender in Chicana Fiction"
28.	Sarmistha Mukherjee	2009	Prof. D.P Bhattacharjee/Smt. Sharmila Majumdar	"Impact of Industrial Revolution on the Novel's of Elizabeth Gaskell: A critical Assisment "
29.	Somdatta Lahiri		Prof. Nila Das	"Thus Speak Women: Some Autobiographies of Indian Women from Feminist Perspectives"
30.	Soma Ray Chaudhury	21.7.2011	Dr. Niladri R. Chatterjee	"Barbed Wire: Object and Identity in Partition Fiction"
31.	Nitish Bhoosthetty	2015	Dr. Dhruvajyoti Sarkar	Untitled
32.	Tanmoy Baghira	20.03.2014	Dr. Niladri R. Chatterjee	Untitled
33.	Suman Banerjee	2015	Smt. Sharmila Majumder	"Nineteen Century American Short Stories "

a. From the host institution/university: 24.

b. From other institutions/universities: 13.

**40. Number of post graduate students getting financial assistance from the university:**  
About 25%.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:** Yes. Several Departmental Committee meetings on syllabus and 1 Curriculum Development Workshop was held.

**42. Does the department obtain feedback from**

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes. Departmental Committee meetings on the issue and Curriculum Development Workshops are held.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes. Student feedback forms distributed and their responses taken into account for future teaching-learning-evaluation process.
- Alumni and employers on the programmes offered and how does the department utilize the feedback? This process is not in place formally but informal feedbacks are incorporated.

**43. List the distinguished alumni of the department (maximum 10):**

1. Samar Bhaduri, former-Principal, Mayo College
2. Subodh Sarkar, poet and Sahitya Akademi Award winner (M.A. 1979)
3. Kishore Sengupta, theatre director (M.A. 1985)
4. Gautam Ghoshal , composer, singer, music director (M.A 1987)
5. Shyamali Chanda, Manager, Management Consulting, Accenture Consulting Services
6. Swagatam Sengupta, Vice-President, Vodafone
7. Dr. Sharmistha Chatterjee Sriwastav, Associate Professor, Alia Univ
8. Tanmoy Ghosh, Associate Professor, University of Calcutta (MA, 1994)

9. Pinaki Chakraborty Dy. Commissioner, Sales Tax (MA 1988)
10. Ramaprasad Roy, Chairman, Nadia District Primary Council (MA 1988).
- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:** Special lectures, workshops, seminars, orientation programmes, theatre and film viewings are arranged. Orientation & programmes on ragging, gender sensitisation and sexual harassment were held in 2014 & 2015. For more details see answer to Ques. No. 30 & 48.
- 45. List the teaching methods adopted by the faculty for different programmes:** Innovative methods of learning like project work, dissertations, graphic representation, poster presentation, enactment of plays taught, continue to be the various forms of in-semester assessments as in previous years, to facilitate novel and direct engagement with the texts taught. Class lectures are supplemented by powerpoint presentations, viewing film and theatre adaptations of texts in the syllabus.
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** The Department ensures that programme objectives are met and learning outcomes monitored by regularly discussing the programmes and their progress at the Departmental Committee meetings, by regularly seeking the opinions of the students on the programmes, by ensuring that the programmes stay closely relevant to the courses being taught, so that the students realize that the programmes are integral to their holistic learning of the subject.
- 47. Highlight the participation of students and faculty in extension activities:** Students regularly participate in the All India University Youth Festivals at the national and zonal level in various competitions, in Youth Parliament and have won several awards (*for details see ans. to ques.29 students' section*).  
  
Faculty is actively involved in various extracurricular and extension activities: Prof. Ashok Sengupta is the Chair and Sri Sagar Taranga Mandal is a member of the Annual Report Committee. Prof. Sarbani Chaudhury is the Chair of Committee against Sexual Harassment, Internal Complaints Committee (ICC), Various enquiry committees set up by the University and Selection Committee for the University team, Nominated Member of the 8<sup>th</sup> Executive Council and Court. Smt. Sharmila Majumdar is the Secretary (Offg) of the Undergraduate Faculty Council; Prof. Niladri R. Chatterjee is the Convenor of the DODL English Dr. Sandip Mondal is the Director of the Cultural Studies Centre and the director of the prize winning drama performances; Dr. Dhrubajyoti Sarkar is an advisory member of Culture Studies and Women's Studies Centres.
- 48. Give details of "beyond syllabus scholarly activities" of the department:**  
*1 December 2015* Students' and teachers' viewing of "12<sup>th</sup> Night" performed by Filter Theatre, UK, in collaboration with British Council, Kolkata.  
*14 October 2015* Orientation Programme on Sexual Harassment and Its Prevention in the Campus.  
*10 October 2014* Students' and teachers' viewing of "Forces of Nature" by Scottish Dance Theatre at Kalamandir, Kolkata in collaboration with British Council, Kolkata.
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** No.
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:** Two UGC Major Research Projects on Shakespeare Criticism in Bengal contributed substantially towards the generating of basic new knowledge, and students have written significant papers exploring non-normative sexualities and genders in society, generating applied new knowledge.

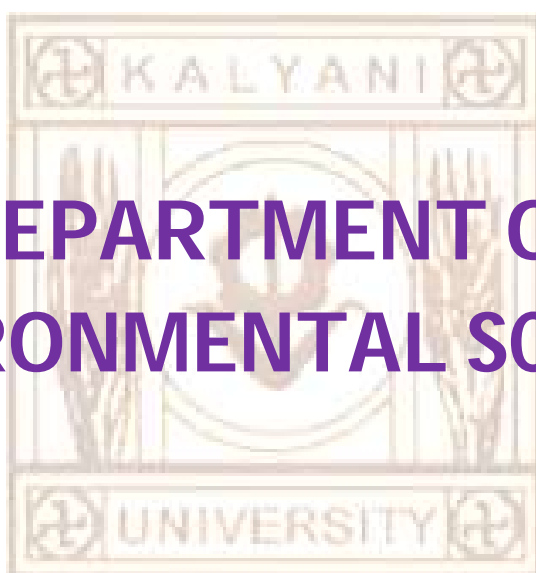
### 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

No.	Strengths	Weaknesses	Opportunities	Challenges
1.	Teachers' Accessibility to the Students	Insufficient Faculty and Non-Teaching Staff	Knowledge Dissemination among First Generation Learners	Students' Disinterest towards Research
2.	Strict Adherence to Academic Calendar	Lack of Infrastructure	Encouraging Free Thought	Instilling Self-Confidence in Economically Backward Students
3.	Innovative Optional Courses	Dissolution of the Departmental Library	Raising Social, Gender/Sexuality Awareness	Resisting Structures of Social Inequity
4.	Regular Special Lectures by Invited Speakers	Distance from Urban Cultural Centres	Informing Students about Career Options/ Employment Opportunities	Substantial Drop-out Rate
5.	Innovative Evaluation Systems	Limited Internet Access for Students	Engendering Self-Sufficiency	Excessive Reliance on Traditional Modes of Learning

### 52. Future plans of the department.

The Department has decided to focus equally on syllabus upgrading, research felicitation, innovative teaching and social responsibility with a view to maximising the participation and knowledge acquisition of students and sensitise them about their social and educational responsibilities. Consequently it has planned 1 international seminar commemorating 150 years of Indian novel and 1 national seminar on film in early 2016. It plans to continue the invited lecture series on syllabus related topics by several academics from India and abroad, which started in 2015, independently and in collaboration with other institutions and NGOs. It has also focused on urging the filling up of vacant posts and is happy to have added two new faculty members. The Department is also in the process of revising the PhD syllabus and plans to reintroduce MPhil.

# DEPARTMENT OF ENVIRONMENTAL SCIENCE



**1. Name of the Department :** Environmental Science

**2. Year of establishment:**

In 1985 as "School of Environmental Science". Then the academic programme started in 1990 with Ph.D. programme, followed by M.Phil. in 1991.

From 1998, the Department of Environmental Science started with M.Sc. in Environmental Science.

**3. Is the Department part of a School/Faculty of the university?:** Science Faculty

**4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** M. Sc. & Ph. D

**5. Interdisciplinary programmes and departments involved:**

Inter disciplinary research works with other departments/Institutes/Universities

**6. Courses in collaboration with other universities, industries, foreign institutions, etc. :**  
No

**7. Details of programmes discontinued, if any, with reasons:**

Discontinued M. Phil programme in 2010 and have a plan to start credit based two years M.Phil programme.

**8. Examination System: Annual/Semester/Trimester/Choice Based Credit System**

Semester system introduced from 2008-2009; Credit System introduced from 2014-2015.

**9. Participation of the department in the courses offered by other departments**

Departmental faculties taking classes in some other departments also as when required.

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate/Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	3
Associate Professors	1(Reader)	0	1
Asst. Professors	5	0	0
Others	Nil	Nil	Nil

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	Years of Experience Research and or Teaching	No. of Ph.D./ M.Phil. students guided for the last 4 years
Prof. S. C. Santra	Ph.D, PRS (Sc)	Professor	Environmental Biology	41	14
Prof. D. Das	Ph.D(Fulbright Scholar)	Professor	Environmental Geology (RS & GIS)	31	02
Prof. R. Bhattacharya	Ph.D	Professor	Environmental Physics (Atmospheric	31	07

Name	Qualification	Designation	Specialization	Years of Experience Research and or Teaching	No. of Ph.D./ M.Phil. students guided for the last 4 years
			physics)		
Dr. S. Mukherjee	Ph.D (ISBRI Fellow)	Associate Professor	Environmental Chemistry	15	04
Prof. D.K.Khan	PhD	Professor (Retd. on 2013)	Environmental Geography	31	06

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil**

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

2012 – 13 Ist Semester Theo- 30% Pr – 25%

3rd Semester Theo- 30% Pr – 50%

2013 – 14 3rd Semester Theo- 30% Pr – 50%

2014 – 15 1<sup>st</sup> Semester Theo – 32% Pr. – 25%

3<sup>rd</sup> Semester Theo – 32% Pr. – 50%

**14. Programme-wise Student Teacher Ratio : 1: 10 (M.Sc.), 1:5 (Ph. D)**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Posts	Sanctioned	Filled	Actual
Technical Assistant	2	1	1
Junior Assistant	2	2	2+1 (Casual)
Office Attendant	1	0	1 (Casual)
Laboratory Attendant	2	0	2
Sweeper	1	0	1 (Casual)

**16. Research thrust areas as recognized by major funding agencies: Annexure 1**

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

*Projects during the Last Five Years*

Sl. No.	Investigator	Title	Funding Agency	Amount (in Lakh)	Status
1	Prof. S.C. Santra	Investigation on Soil Bacteria in Arsenic Transformation and Mobilization in Arsenic Affected Soils of West Bengal	Dept. of Environment, Govt. of West Bengal	4.50	Completed in 2012
2		Comprehensive study on radiation induced metal tolerance in fungal strain	UGC-DAE-CRS collaborative Project	10.0	Completed in 2013
3		Studies on Trace Element Distribution and their Role in Salt Stress Adaptation	UGC-DAE-CRS	10.0	Completed in 2013



Sl. No.	Investigator	Title	Funding Agency	Amount (in Lakh)	Status
		in Halophytic Plants of Mangrove Vegetation of West Bengal	collaborative Project		
4		Pesticide residue analysis in agricultural horticultural and aquacultural materials	UGC-BSR One time grant	7.0	Completed in 2013
5		An investigation on arsenic transfer in water soil crop environment in arsenic affected areas of West Bengal, India	DoE, Govt. of West Bengal	13.8	Ongoing
6	Prof. D. Das	A detailed site suitability study for water harvesting structures in a drought prone hard rock terrain of Eastern India: Geomorphology and spatial technology based approach	UGC, New Delhi	6.92	Completed 2013
7	Dr. R. Bhattacharya	Multi Technique Studies on Solar Modulation of Space Weather and the Associate Electrical Processes Influencing Atmospheric Layers	UGC, New Delhi	8.0	Completed 2012
8	Dr. S. Mukherjee	Structural and Functional Diversities of Luminescent Complexes: Design, Synthesis and Application	UGC, New Delhi	8.81	Completed 2012
9		Development of Fluorescent Chemosensors for Metal ions: Design, Synthesis, Spectroscopic	CSIR, New Delhi	11.0	Completed 2011
10		ENVIS Centre on Environmental Biotechnology Coordinator: Prof. S.C. Santra	MoEF, Govt. India	10.0/year (approx)	Ongoing

### 18. Inter-institutional collaborative projects and associated grants received: Nil

a) National collaboration

b) International collaboration

#### Collaborative Work:

- Consortium UGC CRS Centre, Kolkata
- Dept. of Zoology Calcutta University
- Dept. of Veterinary Physiology, WBAFS, Belgachhia
- Dept. of Solid State Physics, Saha Institute of Nuclear Physics, Kolkata,
- Dept. of Chemistry, University of Neuchatel, Switzerland,
- Dept. of Agro Meteorology, Bidhan Chandra Krishi Viswavidyalaya
- National Centre for Medium Weather Forecasting, Noida

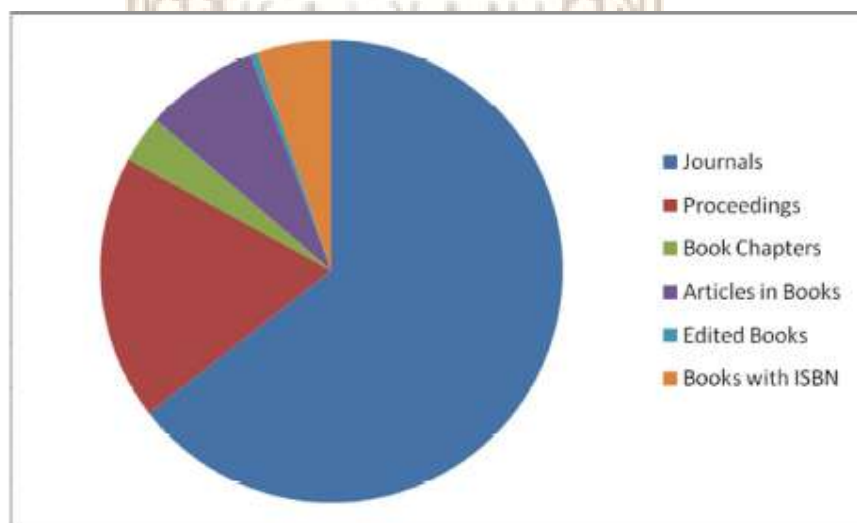
### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

DST-FIST – 90 lakhs

UGC BRS – 20 Lakhs ( Phase I and Phase II)

**20. Research facility / centre with**√ **State recognition****National recognition****International recognition****21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil****22. Publications: (Last 5 years): Annexure II**

- ☐ Number of papers published in peer reviewed journals (national / international) : 136
- ☐ Proceedings: **39**
- ☐ Book Chapters: **07**
- ☐ Articles in Books: 17
- ☐ Edited Books: **1**
- ☐ Books with ISBN with details of publishers: **11**



	Book Name	Publisher	ISBN	Year
1.	Biochemical and enzymatic analysis of marine benthic macroalgae: Sukalyan Chakraborty and S.C.Santra	LAP LAMBERT Academic Publishing	ISBN-10: 3848404435	2011
2.	Arsenic in crop ecosystem and potential health risk assessment: Alok Chandra Samal and S.C.Santra	LAP LAMBERT Academic Publishing	ISBN:10-3659135658	2012
3.	<i>Arsenic in Rice: Arsenic Accumulation in Rice System of West Bengal: Consequences and Its Possible Management Strategies</i> by Piyal Bhattacharya, Subhas Chandra Santra.	LAP LAMBERT Academic Publishing	ISBN-13: 978-3659130007	2012
4.	Mangrove Fungi of India: Punarbasu Chaudhuri & S. C. Santra	Bishen Singh, Mahendra Singh Pal Pub., Derhadun	ISBN: 8121107695	2013
5.	Handbook on industrial ecology waste management strategies: Indranil	Discovery Publishing House Pvt. Ltd.	ISBN- 978-93-5056-423-3	2013

	Book Name	Publisher	ISBN	Year
	Sadhukhan, Krishna M. Agarwal, S. C. Santra, and Sarbani Mitra			
6.	Environmental Science, S. C. Santra (3 <sup>rd</sup> Edition)	New Central Book Agency, Calcutta	ISBN: 9788173814044	2013
7.	College Botany Volume II. A.K.Kar, H.C.Ganguly and S.C.Santra	New Central Book Agency, Calcutta		2014
8.	Practical Botany Volume I. S.C.Santra	New Central Book Agency, Calcutta	ISBN: 9788173819452	2014
9.	Practical Botany Volume II. S.C.Santra	New Central Book Agency, Calcutta	ISBN: 9788173819612	2015
10.	On the Science and Impact of Lightning: Physical, Electrical and Optical Properties by R. Bhattacharya and A.B.Bhattacharya	LAP LAMBERT Academic Publishing, Germany, Pages 425	ISBN:978_3-659-35158-7-	2015
11.	From Rainbow to Rayleigh Scattering: Nature's amazing beauties and their scientific impacts by R. Bhattacharya and A.B.Bhattacharya	LAP LAMBERT Academic Publishing, Germany, Pages 425	ISBN:978_3-659-76957-3	2015

- ☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- ☐ Citation Index – range / average: **Total Citation: 1479; Citation Since 2009: 1115**
- ☐ Impact Factor – range / average: **Impact factor range: 0.5 - 4.33**  
**No of Paper Considered: 145**  
**Total Impact Factor: 291.974**  
**Average Impact factor: 2.013**
- ☐ h-index: **Range: 2 – 18 for all faculties**

**23. Details of patents and income generated: Nil**

**24. Areas of consultancy and income generated: Ecological studies, 7 Lakhs (last 5 years)**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad**

- International Workshop on Arsenic and Humic Substances in Groundwater and Their Health Effects, National Cheng Kung University, Taiwan, 11-12th May, 2009 - Prof. S. C. Santra
- 9<sup>th</sup> International Hydro geological Congress, Kalavrita, Greece, 5-8th Oct. 2011- Prof. D. Das (Session Chairperson)
- Awarded Indo-Swiss JUAF Research Fellowship in 2011 visited and delivered Invited Lecture-Seminar organized by the Dept. of Chemistry, University of Neuchatel, Switzerland, during March-April, 2011- Dr. S. Mukherjee
- International Symposium on Environmental Science and Technology (ISEST-2013), China – Prof. S. C. Santra
- Visiting Scientist - Dr. S. Mukherjee, University of Neuchatel, Switzerland in May, 2013
- Invited as Ecological Expert, CIGIT, Chinese Academy of Sciences, China, 2014 - Prof. S. C. Santra

**26. Faculty serving in**

- a. National committees b) International committees c) Editorial Boards d) any other (please specify)

Prof. S.C. Santra acting as member of UGC Expert Committee, MoEF expert committee, State Biodiversity Board, W.B. State Pollution Control Board, Central Pollution Control Board, Member of the State Environment Appraisal Committee (nominated by MoEF, Govt. of India) Associate Editor, International Journal of Environmental Science & Technology, Terhan, Iran Regular Reviewer of more than 35 Journals.

Prof. D. Das act as a National Service Scheme (NSS) Programme Officer: 1995-1999, M.H.R.D., Government of India and Education Department, Government of West Bengal, jointly sponsored scheme. Reviewer of Journal of Geology and Mining Research in hydrogeological area and WOTRO Science for global developments, Netherland.

Dr. R. Bhattacharya is reviewer of Indian Journal of Radio and Space Physics, Science and Culture and Particle Physics.

Dr. S. Mukherjee act as reviewer of several international journals.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). Faculties are participating in Refresher / orientation programs, workshops, training programs etc.**

**28. Student projects**

- a. percentage of students who have done in-house projects including inter-departmental projects : **70%**
- b. percentage of students doing projects in collaboration with other universities/ industry / institute : **30%**

**29. Awards / recognitions received at the national and international level by**

- a. Faculty :

- Indo-Swiss JUAF Research Fellowship, 2011- Dr. S. Mukherjee
- Research Fellowship from University of Neuchatel, Switzerland, 2013- Dr. S. Mukherjee
- Distinguished Young Scientist Award in World Science Congress 2014

- b. Doctoral / post doctoral fellows

- Australian Endeavour Post doctoral Research Award, 2011 -Dr. A. C. Samal, Tech Asst.

- c. Students

Two scholars are awarded Rajib Gandhi National Fellowship, UGC, New Delhi

Four scholars are awarded UGC Fellowship under Meritorious Scheme, New Delhi

Two scholars are awarded CSIR Fellowship, New Delhi

One Scholar is awarded Fellowship from National Academy of Sciences, Allahabad

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any. :**

Organised 5 (Five) National and local level seminars in last 5 years, funded by UGC, MoEF

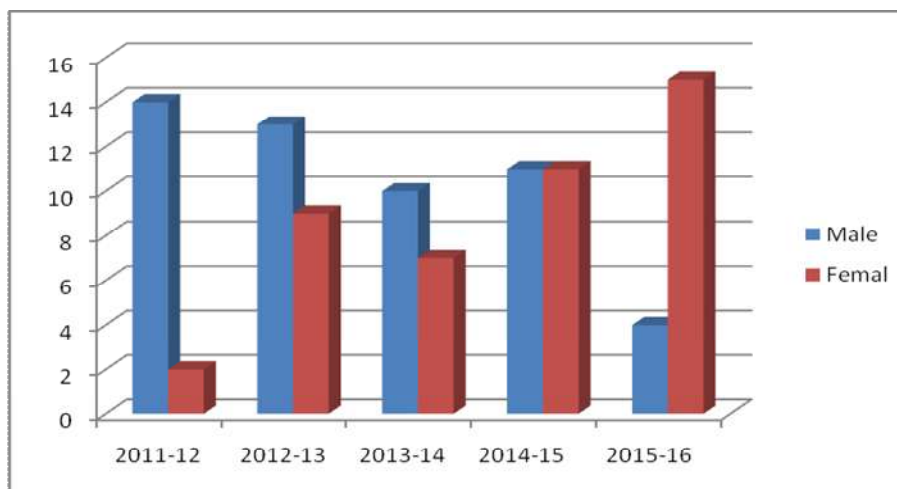
Sl. No.	Theme of Seminar/Workshop	Date	Speaker
1	Seminar cum workshop on 'Chronic Arsenicosis- a public health concern in	12.01.2010	Prof B. Sarkar from University of Toronto

Sl. No.	Theme of Seminar/Workshop	Date	Speaker
	West Bengal'. - funded by MoEF		
2	Workshop on "Food security, GM crops, GMO and Biosafety Issues" funded by MoEF	19.03.2013	Dr. Ashok Kanti Sanyal, Chairman, West Bengal Biodiversity Board, Kolkata, Prof. Ratan Gachhui, Department of Biotechnology, Jadavpur University, Kolkata 700 032 and Prof. Parthadeb Ghosh, Department of Botany, University of Kalyani
3	Seminar on "Bioremediation and Biodegradation" funded by MoEF	12.12.2013	Mr. Santanu Mukherjee of Agrosphere Institute, Germany
4	Seminar on "Urban Water Scarcity, Climate Change, Water Recycling, Energy and Greenhouse Emissions" funded by MoEF	02.01.2014	Mr. Debashis Raha, Board Member of the Minister for Environment and Climate Changes Technical Panel
5	Seminar on "Contemporary issues on Environment & development in India and adjacent countries" with Kalyani Mahavidyalaya funded by UGC		Prof. S. C. Mukhopadhyay Prof. Sudepta Adhikary Prof. Ravi S Singh Prof. Asish Sarkar Prof. Ranjan Basu Prof. Sukla Bhaduri Prof. Sunando Bandyopadhyay Prof. S.K.Dey and 14 others

**31. Code of ethics for research followed by the departments: NA**

**32. Student profile programme-wise:**

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M. Sc, 2011-12	-	14	02	100%	
M.Sc, 2012-13	-	13	09		
M.Sc, 2013-14	-	10	07		
M.Sc, 2014-15	-	11	11		
M.Sc, 2015-16		04	15		
Ph.D. 2014-15	26	04	00	--	--



### 33. Diversity of Students

Name of the Programme(refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M. Sc (Semester I)	87%	23%	Nil	Nil
M.Sc (Semester II)	76%	24%	Nil	Nil
M.Sc (Semester III)	76%	24%	Nil	Nil
M.Sc (Semester IV)	91%	09%	Nil	Nil
Ph.D.	67.18%	28.64%	2.62%	1.56%

### 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

- 14 students qualified NET in last 5 years

### 35. Student progression

Student progression	Percentage against enrolled
UG to PG	60%
PG to M.Phil.	NA
PG to Ph.D.	25%
Ph.D. to Post-Doctoral	6%
Employed	
Campus selection	No
Other than campus recruitment	Well placed in various Industries, Organizations, Colleges and University, also doing research in Institutes and Universities in India and Abroad
Entrepreneurs	No information

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	20%
from other universities within the State	80%
from universities from other States	Nil
from universities outside the country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** Nil

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library: Central Facilities
- b) Internet facilities for staff and students : Yes
- c) Total number of class rooms: 2
- d) Class rooms with ICT facility: Planned to have at least one smart room
- e) Students' laboratories : 2 (General), 1( Computer Lab)
- f) Research laboratories : 8 (Major Equipmental facilities Annexure III)

**39. List of doctoral, post-doctoral students and Research Associates:**

a) from the host institution/university : Annexure IV

b) from other institutions/universities : Nil

**40. Number of post graduate students getting financial assistance from the university.:**  
Two

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.:**

Need is assessed from the present and past students and also from scholars.

**42. Does the department obtain feedback from**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? :

Accordingly the syllabus of each semester is modified and individual care is taken.

- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? :

Method of evaluation at the end of semester is done. Supplied learning materials and instructions to the students as and when required.

Demonstration of the new equipments is given to the students before the practical classes.

- iii. alumni and employers on the programmes offered and how does the department utilize the feedback? : Some courses are offered to the retired teacher.

**43. List the distinguished alumni of the department (maximum 10)**

S.N.	Name	Year of Passing	Position held
1	Dr. Udaychand Pal	1990	Principal, Raja N.C.Khan Girl's College, Paschim Midnapore
2	Dr. Debashis Chakravorty	1997	Sr. Scientist, WBPCB
3	Dr. Ananda Banerjee	1998	Sr. Scientist, WBPCB
4	Dr. Jayanta Biswas	1998	Associate Prof, Kalyani University
5	Dr. Punarbasu Choudhuri	2000	Asst Prof., Dept of Env. Sc., Calcutta University
6	Dr. Aariz Aftab	2002	IAS, Sec, WB Govt
7	Saradwati Chowdhury	2004	WBCS (Exe.) officer (2009 topper) Deputy Magistrate & Deputy Collector
8	Dr. Indrani Choudhury	2005	Sr. Scientist, Space Application Centre (SAPC),



S.N.	Name	Year of Passing	Position held
			Ahmedabad
9	Dr. Mousumi Pal	2007	Sr. Scientist, Institute of Env. Studies & Wetland Management
10	Dr. Anindita Mitra	2010	Post Doc, Harvard University, USA

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Seminar cum workshop on 'Chronic Arsenicosis- a public health concern in West Bengal' on 12.01.2010

Workshop on "Food security, GM crops, GMO and Biosafety Issues on 19.03.2013

Seminar on "Bioremediation and Biodegradation on 12.12.2013

Seminar on "Urban Water Scarcity, Climate Change, Water Recycling, Energy and Greenhouse Emissions on 02.01.2014

**45. List the teaching methods adopted by the faculty for different programmes. Class lectures/ Seminars/ tutorials/ field work/ reading materials/lab instruction/ continuous evaluation/ interactive discussions**

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Taking feed back from the students**

**47. Highlight the participation of students and faculty in extension activities.** Students are taken to Industries and different sites/ fields related to Environmental Science.

Faculties are participated to different orientation programmes/workshops/workshop cum training programmes.

**48. Give details of "beyond syllabus scholarly activities" of the department.**

Students are participated in Sports and Cultural Programmes at University/State/National level.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : NA**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- Specialized studies on Arsenic problems in West Bengal: Biological aspects of arsenic removal from contaminated water and soil.
- Seasonal as well as zone wise variation in different physio-biochemical parameters of Black Bengal goat (*Capra aegagrus hircus*) in two agro-climatic regions of India viz. Purulia, fall under Eastern Plateau and Hills region.
- Land use and hydrogeology
- Design of novel compounds to trap atmospheric pollutants.
- Monitoring of pedestrian level of solar UV radiation using tree.
- Increasing the sparrow number using specially designed artificial nest box.
- Investigation of new small molecule chromogenic and fluorescent chemosensors selective for trace, toxic, heavy metals, toxic anions, neutral molecules and also for real sample analysis.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths**

Faculties are from different branches of science and hence engaged in interdisciplinary research works with national/ international collaborations. The number of publications of the department has been commendable.

Department has good infrastructural support from DST –FIST and DST- PURSE programme and also from UGC. Department also has ENVIS centre supported by MoEF.

Good numbers of Alumnus are distributed in different Organizations.

Our department can boast of almost perfect discipline. There has been no disruption of academic calendar or incidence of ragging.

Teachers take care of individual need of the students. Absenteeism is negligible.

Dept. has introduced Medal for Excellence in Environmental Science for 1<sup>st</sup> rank holders to encourage students

Dept. imparts advanced field courses to the students.

**Weaknesses**

Though the space of the department is at present increased to some extent, but still the department has lack of space for starting new courses and research activities. The Department has also need for faculties in diversified field.

**Opportunities**

The level of academic excellence which the department has acquired at present makes it possible for our students to get entry into higher study at different reputed institutions.

**Challenges**

Upgrading the academic quality of students from rural and backward areas

To motivate the students for applying their knowledge in the practical field is our challenge

**52. Future plans of the department:**

Planning to introduce M. Phil in Environmental Science & Technology, and in-service training programme in Environmental safety measures

# DEPARTMENT OF FOLKLORE



1. **Name of the Department:** Folklore
2. **Year of establishment:** 1990
3. **Is the Department part of a School/Faculty of the university?**

Yes, the Department of Folklore is the part of the Faculty of Arts & Commerce of the University of Kalyani.

4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**

Sl. No.	Names of Programmes Offered	Duration
01.	MA or PG Course in Folklore	2 Years (4 Semesters)
02.	M. Phil in Folklore	One & Half Year (3 Semesters)
03.	Ph.D. in Folklore	3-5 Years
04.	D. Litt in Folklore	3-5 Years

5. **Interdisciplinary programmes and departments involved:**

Folklore is an interdisciplinary subject in the field of social science. The Department of Folklore with its interdisciplinary course content desires to fulfil three-dimensional works of teaching, research and documentation. Interdisciplinary activities are very much prominent in this department because of the nature of the course contents of folklore. Persons with specialized knowledge are invited from different academic organizations to deliver lectures and to provide hands-on demonstration on the relevant components of the syllabus. This facilitates the students help develop the folklore through acquiring knowledge of other disciplines.

The department intends to undertake exchange programmes at different levels for strengthening the discipline of folkloristics as well as generating academic interaction and mutual understanding. We have already introduced the One and half Year Interdisciplinary M.Phil Programme in Folklore during this period. Further we have organised different seminar and lecture programmes being delivered by eminent scholars and personalities of allied disciplines belonging to different universities. We need to extend our research activities in preferred areas through collaborations with other institutions of India and abroad.

Faculty members of the department are also associated with the teaching, research and extension programme in different subjects in Centre for Women Studies, Centre for Cultural Studies, Department of Sociology, Department Rural Development and Management and Department of Bengali. The Department organises seminars, workshops and training programme in collaboration with other Departments from time to time.

6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**  
Nil
7. **Details of programmes discontinued, if any, with reasons:** Nil
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System**  
Semester and Choice Based Credit System.
9. **Participation of the department in the courses offered by other departments:**

Faculty members of the department are also associated with the teaching, research and extension programme in different subjects in Centre for Women Studies, Centre for Cultural Studies, Department of Sociology, Department Rural Development and Management and Department of Bengali:

Degree	Department/Centre	Course
M.Phil Semester-I	Women Studies	Research Methodology, Concept of Women Studies
Ph.D Course Work	Rural Development & Management	Research Methodology; Folklore, Tourism & Rural Development
Ph.D Course Work	Bengali	Research Methodology
Certificate Course on Social Work	Sociology	Fieldwork Method

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01 (One)	-	01 (One)
Associate Professors	02 (Two)	01 (One)	03 (Three)
Asst. Professors	04 (Four)	04 (Four)	01 (One)
Others: Technical Assistant	01 (One)	-	Vacant

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name of the Faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Sujay Kumar Mandal	MA, Ph.D.	Associate Professor	Comparative Folklore, Folk arts & Crafts, Methodology of Folklore Study, TK etc.	15 Years	Ph.D.- a. Awarded:08 b. Ongoing:07 M.Phil-04
Dr. Kakali Dhara Mandal	MA, Ph.D.	Associate Professor	Folk music, Folk Performing Arts, Tribal Lore, Folk Food etc.	17 Years	Ph.D.- a. Awarded:08 b. Ongoing:07 M.Phil-03
Dr. Tapan Kumar Biswas	MA, Ph.D. & D.Litt.	Professor	Folk Literature & Language, Applied Folklore, Tribal Lore etc.	19 Years	Ph.D.- a. Awarded:08 b. Ongoing:03 M.Phil-03
Dr. Ashimananda Gangopadhyay	MA, Ph.D.	Associate Professor	Medieval Bengali Literature, Folk Literature, Applied Folklore etc.	20 Years	Ph.D.- a. Awarded:01 b. Ongoing:05 M.Phil-03
Dr. Debalina Debnath	MA, Ph.D.	Assistant Professor	Comparative Folklore, Folk Performing Arts, Folk Rituals etc.	3 Years	Ph.D.- a. Awarded:Nil b. Ongoing:03 M.Phil-02

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: One**

Dr. Sk. Makbul Islam, Adjunct Professor in Folklore.

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

Name Course/Programme	Percentage of Classes
MA Semester-I	7.89%
MA Semester-III	6.29%
M. Phil Semester-I	3.49%
Ph.D. Course Work	5.94%

**14. Programme-wise Student Teacher Ratio:**

Name of the Programme	Academic Session/Year	Student Teacher Ratio
MA / PG	2011-2012	34:1
	2012-2013	30:1
	2013-2014	19:1
	2014-2015	7:1
	2015-2016	7:1
M. Phil	2014-2015	4:1
	2015-2016	4:1
Ph. D.	2011-2012	8:1
	2012-2013	6:1
	2013-2014	6:1
	2014-2015	6:1
	2015-2016	6:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:****A. Permanent Staff:**

Category	Sanctioned	Filled	Actual
Support Staff (technical Assistant)	01 (One)	Vacant	Vacant
Administrative Staff	03 (Three)	01 (One)	Vacant

**B. Casual /Temporary Staff:**

Category	Actual
Typist	One (01)
Mali	One (01)

**16. Research thrust areas as recognized by major funding agencies:**

- Folk arts & crafts –UGC Minor & Major Research Projects
- Folk performing arts-UGC Minor Research Projects
- Folk literature –UGC Minor Research Projects
- Terracotta Temple Architecture- UGC Major Research Projects

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Major Research Project Title Principal Investigator	Name of the Principal Investigator	Funding Agency	Duration of the Project	Total Money in Rs Sanctioned
“A study of terracotta temple architecture at the temple village maluti in Jharkhand”	Dr. Sujay Kumar Mandal	UGC	Two Years (2013-2015)	4,15,000.00

**18. Inter-institutional collaborative projects and associated grants received:** Nil

a) National collaboration: Nil

b) International collaboration: Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :** Nil

**20. Research facility / centre with**

a. state recognition – Nil

b. national recognition - Nil

c. international recognition- Nil

**21. Special research laboratories sponsored by / created by industry or corporate bodies:** Nil

**22. Publications:** compiled components

- ☐ Number of papers published in peer reviewed journals (national / international): 30
- ☐ Monographs: Nil
- ☐ Chapters in Books: 22
- ☐ Edited Books: 02
- ☐ Books with ISBN with details of publishers: 03
- ☐ Others: 04
- ☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- ☐ Citation Index – range / average: 02
- ☐ SNIP
- ☐ SJR
- ☐ Impact Factor – range / average ☐ h-index: 01

**23. Details of patents and income generated:** Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally/internationally to visit other laboratories/institutions/industries in India and abroad:**

a. India:



Sl. No.	Name of the Faculty	Name of the Institution
1.	Dr. Sujay Kumar Mandal	Visiting Faculty- Ramakrishna Mission Vivekananda University & Vivekananda Research Centre, Vidyamandira; KN College Centre, Netaji Subhas Open University, Subject Experts- Gauhati University, Rabindra Bharati University, The Burdwan University, Jadavpur University etc.; Participant/Invited Speaker- Visva Bharati University, North-Eastern Hill University, Dravidian University, Central University of Jharkhand, Kannada University, Nagaland University, Sambalpur University, University of Calcutta, Folklore Society of South Indian Languages, The Asiatic Society, Kolkata etc.
2.	Dr. Kakali Dhara Mandal	Visiting Faculty- KN College Centre, Netaji Subhas Open University, Subject Experts- Rabindra Bharati University, North Bengal University; Participant/Invited Speaker- Visva Bharati University, North-Eastern Hill University, Dravidian University, Central University of Jharkhand, Kannada University, University of Calcutta, Folklore Society of South Indian Languages, The Asiatic Society, Kolkata etc.
3.	Prof. Tapan Kumar Biswas	Visiting Faculty- Tripura Central University Subject Experts- Rabindra Bharati University, Vidyasagar University, Assam University
4..	Dr. Ashimanada Gangopadhyay	Visiting Faculty- Sidhu Kanu Birsha University; Subject Experts- Sidhu Kanu Birsha University, Gour Banga University, West Bengal State University, Jadavpur University Participant/Invited Speaker- University of Calcutta, Rabindra Bharati University etc.
5.	Dr. Debalina Denath	Subject Experts- Gour Banga University Participant/Invited Speaker- Jadavpur University, Calcutta University, Sidhu Kanu Birsha University etc.

## b. Abroad:

Sl. No.	Name of the Faculty	Name of the Institution
1.	Dr. Sujay Kumar Mandal	Participant/Invited Speaker- Nepali Folklore Society, Kathmandu, Nepal; Charon Kobi Bijoy Sarkar Foundation, Office of the Deputy Commissioner, Narail, Bangladesh
2.	Dr. Kakali Dhara Mandal	Participant/Invited Speaker- Rajshahi University, Charon Kobi Bijoy Sarkar Foundation, Office of the Deputy Commissioner, Narail, Bangladesh; Ratchathani University, Bangkok, Thailand; University of Kelaniya, Colombo, Srilanka etc.
3.	Prof. Tapan Kumar Biswas	Participant/Invited Speaker- Dhaka University, Bangladesh
4..	Dr. Ashimanada Gangopadhyay	Participant/Invited Speaker- Charon Kobi Bijoy Sarkar Foundation, Office of the Deputy Commissioner, Narail, Bangladesh, Bangla Academy, Dhaka, Bangladesh; Khulna Northern University, Khulna, Bangladesh

**26. Faculty serving in**

a. National committees b) International committees c) Editorial Boards d) any other (please specify) :

1. Dr. Sujay Kumar Mandal:

- Subject Expert- UGC NET
- Member- Indian Folklore Congress, Folklore Society of South Indian Languages

- Editor-in-Chief/Associate Editor/ Member of Editorial Board: *Lokodarpan*, Folklore & Folkloristics, *Shinjan*

2. Dr. Kakali Dhara Mandal:

- Member- Indian Folklore Congress, Folklore Society of South Indian Languages, Asian Folklore Congress
- Editor-in-Chief/Associate Editor/ Member of Editorial Board: *Lokodarpan*, *Oitijhya*- the tradition etc.

3. Prof. Tapan Kumar Biswas:

- Member- Viswa Banga Vidya, Kolkata
- Editor-in-Chief/Associate Editor/ Member of Editorial Board: *Lokodarpan*

4. Dr. Ashimanada Gangopadhyay:

- Member- Viswa Banga Vidya, Kolkata, Asian Folklore Congress, The Asiatic Society
- Editor-in-Chief/Associate Editor/ Member of Editorial Board: *Lokodarpan*

5. Dr. Debalina Debnath:

- Member- Viswa Banga Vidya, Kolkata, Folklore Congress of Association of India
- Editor-in-Chief/Associate Editor/ Member of Editorial Board: *Lokodarpan*

**27. Recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**

The Faculty members are being recharged through Orientation Course, Refresher Course, In-service Training Programmes, Training Programmes, Workshop-cum-fieldwork related to Folklore and allied subject.

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects: 100%
- percentage of students doing projects in collaboration with other universities/ industry / institute : Nil

**29. Awards / recognitions received at the national and international level by**

- Faculty
- Doctoral / post doctoral fellows : Different Fellowship from UGC & ICSSR
- Students:

Many students of the department position hold in National & East-Zone Inter-University Youth Festival .

**30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any:**

I.	Week Long Fieldwork on <i>Folklore &amp; Tribal Lore</i> , at Raiganj Subdivision, Uttar Dinajpur district, West Bengal, organized by the Department of Folklore during March 13-19, 2011. (Funding by the University)
II.	Week Long Fieldwork on <i>Folklore &amp; Tribal Lore</i> , at Jalpaiguri Sadar Subdivision, Jalpaiguri district, West Bengal, organized by the Department of Folklore during March 21-27, 2012. (Funding by the University)
III.	Week Long Fieldwork on <i>Folklore &amp; Tribal Lore</i> , at Malbazar Subdivision, Jalpaiguri district, West Bengal, organized by the Department of Folklore during March 12-18, 2013. (Funding by the University)

	University)
IV.	One-day International Seminar on Recent Trends on Folklore Study: International Perspective, organized by the Department of Folklore on September 27, 2013. Notable Speaker: Janab Shamsuzzaman Khan, Director General, Bangla Academy, Dhaka, Bangladesh. (Funding by the University)
V.	Special Lecture on Folklore Concept and Perspective by Professor Kailash Pattanaik, Dept. of Oriya, Viswa-Bharati University, organized by the Department of Folklore on December 11, 2013. (Funding by the University)
VI.	Special Lecture on <i>Folklore Study of Rajshahi University</i> by Dr. Udayshankar Biswas, Assistant Professor, Department of Folklore, Rajshahi University, Rajshahi, Bangladesh, organized by the Department of Folklore on February 02, 2014.
VII.	Special Lecture on <i>Folklore &amp; Folkloristics: An Overview</i> by Professor Wakil Ahmed, Former Vice-Chancellor, National University, Bangladesh and Former Pro-Vice-Chancellor, Dhaka University, Dhaka, Bangladesh, organized by the Department of Folklore on February 28, 2014. The lecture session presided over by Professor Sumit Mukerji, Dean, Faculty of Arts & Commerce. (Funding by the University)
VIII.	Teachers' Seminar of the Department on <i>Multiculturalism</i> , Organized by the Department of Folklore on March 18, 2014. <i>Speaker:</i> Professor Sumit Mukherjee, Dean, Faculty of Arts & Commerce, University of Kalyani.
IX.	Week Long Fieldwork on <i>Folklore &amp; Tribal Lore</i> , at Bolpur Subdivision, Birbhum, West Bengal, organized by the Department of Folklore during March 20-25, 2015. (Funding by the University)
X.	Special Lecture on 'Folklore & Tourism' by Dr. Sk. Makbul Islam, Associate Professor, St. Paul's College, Kolkata and Visiting Faculty, Ramakrishna Mission Vivekananda University, Belur Math, organized by the Department of Folklore on April 21, 2014.
XI.	Special Lecture on 'Bihu Festival of Assam' by Dr. Prabinchandra Das, Senior Folklorist of Assam and Guest Faculty of the Department of Folklore Research, Guahati University, Assam, organized by the Department of Folklore on April 29, 2014. In connection with this lecture a demonstration on Bihu dance has arranged by the department. Total no. 22 students of Guahati University has performed Bihu dance. The lecture session presided over by Professor Sumit Mukerji, Dean, Faculty of Arts & Commerce. (Funding by the University)
XII.	Special Lecture on 'Folklore & Human Life Cycle' by Professor P. Subbachary, Dean, Faculty of Humanities & Social Science and HoD, Department of Folklore & Tribal Studies, Dravidian University, Kuppam, Andhra Pradesh, organized by the Department of Folklore on August 18, 2014.
XIII.	The Department of Folklore has celebrated the World Folklore Day on August 22, 2014. The programme has been inaugurated by Professor Rattan Lal Hangloo, the Hon'ble Vice-Chancellor. On this occasion a special lecture session held in the department. Professor Biplab Chakraborty, Former Professor, Burdwan University has delivered the special lecture on <i>Folktales Around the World: Style and Essence</i> . The lecture session presided over by Professor Sumit Mukerji, Dean, Faculty of Arts & Commerce. (Funding by the University)
XIV.	Teachers' & Students' Seminar on ' <i>Folklore &amp; Tribal Lore</i> ', organized by the Department of Folklore on September 15, 2014.
XV.	Special Lecture Session under the Silver Jubilee Year Celebration Lecture Series of the Department of Folklore by Carola Erika Lorea, Doctoral Research Fellow, Oriental Studies, La Sapienza University of Rome, Italy on ' <i>Lyrics of Bhaba Pagla and the Contemporary Repertoire of Baul songs of Bengal</i> ', organized by the Department of Folklore on September 26, 2014. Professor Ratan Lal Hangloo, Hon'ble Vice-Chancellor of our university has inaugurated the programme. Professor Sumit Mukerji, Dean, Faculty of Arts & Commerce has acted as moderator of the lecture session. (Funding by the University)
XVI.	Celebration of Silver Jubilee Year of the Department and UGC sponsored Two-day National Seminar on Folklore & Tribal Lore in Eastern and North-East India: Perspective and Present Status, organized by the Department of Folklore held on January 15-16, 2015 in the APC Hall, Administrative Building and the Seminar Hall of the Department.

	(Funding by the UGC)
XVII.	Students' Seminar on 'Folklore & Tribal Lore', organized by the Department of Folklore on February 25, 2015.
XVIII.	Students' Seminar on 'Folklore & Tribal Lore', organized by the Department of Folklore on March 04, 2015.
XIX.	Week long Fieldwork-Cum-Workshop on Folklore and Tribal Lore held at Rang Bul Grampanchayat of Jore Banglow-Sukiapukhri Block, Darjeeling Sadar sub-division in Darjeeling district of West Bengal, organized by the Department of Folklore during March 19 to March 23, 2015. Fieldwork Camp: Kalej Valley Tea Estate. (Funding by the University)
XX.	Special Lecture on 'Folklore of Orissa' by Professor Giribala Mahanti, Former Professor & Head, Department of Orissa, Visva-Bharati University, Santiniketan, West Bengal, organized by the Department of Folklore on July 15, 2015.
XXI.	Special Lecture on 'Folkdance & Theatre Tradition of Bangladesh' by Al Zahir, Assistant Professor, Department of Theatre & Performance Studies, Jatiya Kabi Kazi Nazrul Islam University, Bangladesh, organized by the Department of Folklore on July 15, 2015.
XXII.	Celebration of the International Day of World's Indigenous People and State Level Seminar on Tribal Lore of India, organized by the Department of Folklore held on August 13, 2015.
XXIII.	One-day State Level Seminar on Bengal-Manipur on Rhythm and Celebration of the World Folklore Day, organized by the Department of Folklore on August 25, 2015. (Funding by the University)
XXIV.	Teachers' Seminar on 'Folklore, Nationalism and Nationalistic Movement of India' by Professor Sumit Mukerji, Dean, Faculty of Arts & Commerce, University of Kalyani, organized by the Department of Folklore on September 28, 2015.
XXV.	Special Lecture on 'Study on Bengali Folksong: History & Perspective, by Shri Subhendu Maity, Renowned Folk Singer and Researcher, Lalan Academy, Naihati, West Bengal, organized by the Department of Folklore on October 09, 2015.

### 31. Code of ethics for research followed by the departments:

The Department carries out its research programmes in accordance with the M.Phil and Ph.D. Regulations which are based on UGC guidelines. A Research committee/Departmental Committee/ Departmental Admission Committee comprising of faculty members is functioning in the department and the committees monitors the progress of the research work of both M.Phil., and Ph.D. Scholars in the department. Further, the research scholars are encouraged to present their research proposal in the department.

### 32. Student profile programme-wise:

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
(refer to question no. 4)					
2014-2015					
MA	51	06	19	66.67%	84.21%
M.Phil	63	12	07	91.67%	85.71%
Ph.D.	-	-	-	-	-

**33. Diversity of students: 2014-2015**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MA-I Year	78.95	21.05	-	-
MA-II Year	58.82	41.18	-	-
M. Phil	58.82	41.18	-	-
Ph.D.	47.5	50	2.5	

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

- List of UGC NET qualified candidates in Folklore:

Year	No. of qualified Students	Name of the Students	Category
2011-December	06	Apurba Roy	SC
		Goutam Mandal	SC
		Pradyat Biswas	SC
		Subarna Sarkar	SC
		Suman Chatterjee	Gen
		Tagari Das	Gen
2012- December	01	Rajesh Khan	PH
2013-June	01	Rajesh Khan	PH
2013-December	02	Shipra Ghosh	OBC
2014- June	01	Durba Pramanick	OBC
2014-December	04	Tanaya Mukherjee	Gen
		Tagari Das	OBC
		Bikash Sarkar	SC
		Sabina Biswas	PH
2015-June	03	Asik Sk	Gen
		Tagari Das	OBC
		Bivash Pramanick	SC

**35. Student progression:**

Student progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	12.8 %
PG to Ph.D.	4 %
Ph.D. to Post-Doctoral	1-2% (approx)
Employed	Data not available
<input type="checkbox"/> Campus selection	
<input type="checkbox"/> Other than campus recruitment	
Entrepreneurs	Data not available

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	80%
from other universities within the State	20%
from universities from other States	-
from universities outside the country	-

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil****38. Present details of departmental infrastructural facilities with regard to****a) Library:**

Department had a library till 2014 but now it is shifted to University Central Library

**b) Internet facilities for staff and students:**

The Internet facility is available for the faculty members, staff and research scholars. The students of the department can also use the internet in the Centre for Information and Resource Management (CIRM) of the University.

**c) Total number of class rooms: Four****d) Class rooms with ICT facility: One****e) Students' laboratories: Not Applicable****f) Research laboratories: Not Applicable****g) Other facilities:**

The Department functions from its own building with four class rooms. It has a seminar hall with projection facilities and audio-visual teaching aids and an archival centre.

**Folklore Museum-Cum-Archive**

Since the inception of the department has been trying to develop one folklore museum cum archive, which has now been started in a class-room and a good number of items of cultural importance have been collected, documented and displayed. Basically the department gives emphasis to collect materials which are directly connected with folklife. The mentioned department has collected various masks which are used in folk and tribal dances. The department of Folklore is able to collect various silver ornaments, used by the folks, different specimens of Terracotta, Scroll paintings of Midnapore, fishing nets and other materials, Suri bowl of Birbhum, wooden dolls, varied folk tools, Naksi kantha, Kalighat paintings, specimens of conch-shell, craft, Dokra and others, rare collection of folk deities etc. In fact our museum cum archive is the only museum in the University which is visited by scholars, researchers, students for academic purposes. Already this museum cum archive has been found mention in a number of books. This museum has also been appreciated by Ms. Helen G La Fave, US Consul General, Kolkata.

**Audio-Visual Complex**

The Audio-Visual Complex of the department has Slide Projector, Overhead Projector, VCR, TV, Camera (Still Photo), different Audio Systems and other equipment used for audio-visual documentation and teaching.

**39. List of doctoral, post-doctoral students and Research Associates during assessment period:****a. from the host institution/university:****I. List of doctoral students from the host university-**



Sl. No.	Name of doctoral students	Status
1.	Amrita Chatterjee (Mukherjee)	Ongoing
2.	Surojit Bag	Ongoing
3.	Ashis Halder	Ongoing
4.	Tanaya Mukherjee	Ongoing
5.	Subarna Sarkar	Ongoing
6.	Apurba Roy	Ongoing
7.	Tagari Das	Ongoing
8.	Aditi Halder	Ongoing
9.	Plaban Das	Ongoing
10.	Gunja Das	Ongoing
11.	Bikash Sarkar	Ongoing
12.	Manidipa Das	Ongoing
13.	Prodyat Biswas	Ongoing
14.	Suman Chatterjee	Ongoing
15.	Prajnaparomita Roy	Ongoing

## II. List of post-doctoral students from the host university-

Sl. No.	Name of post-doctoral students	Status
01.	Dr. Tapan Kumar Biswas	Awarded
02.	Dr. Kakli Dhara Mandal	Ongoing

### b. from other institutions/universities

## III. List of doctoral students from the other university-

Sl. No.	Name of doctoral students	Status
1.	Malabika Mandal	Ongoing
2.	Pabitra Roy	Ongoing
3.	Saoni Dutta	Ongoing
4.	Niva Mandal	Ongoing
5.	Snigdha Sinha	Ongoing
6.	Muhuya Biswas	Ongoing
7.	Chanchal Sinha	Ongoing
8.	Sukla Kisku	Ongoing
9.	Utpal Baishya	Ongoing
10.	Lakshindar Paloi	Ongoing

- Total no. of Twenty Five (25) Research Scholars awarded Ph.D. Degree and two (02) candidates awarded D.Litt. Degree during this period.

## 40. Number of post graduate students getting financial assistance from the university.

5 to 10 PG students getting financial assistance from the university under Merit Scholarship, Merit-cum-means Scholarship, Fees waiver scheme in each year etc.

## 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. No

## 42. Does the department obtain feedback from

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes, Feedbacks are obtained from faculty who handle courses; inputs were received and incorporated at the time of changes introduced in the syllabi.



- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes, the feedback from the students with regard to curriculum, teaching-learning evaluation are discussed in the Departmental Committee meetings and improvements are incorporated in teaching learning evaluation methods.
- iii. alumni and employers on the programmes offered and how does the department utilize the feedback? No
  - The feedback is utilized for revising the curriculum.

**43. List the distinguished alumni of the department (maximum 10):**

Name of the Alumni	Year of Passing	Position Hold
Dr. Kakali Dhara Mandal	1992	Associate Professor, Dept. of Folklore, University of Kalyani
Dr. Susmita Podder	1992	UGC Post Doctoral Fellow, Culicut University
Dr. Sanjib Nath	1992	Asst. Professor in College
Smt. Bipasa Roy	1993	Curator, Museum of EZCC, Kolkata
Dr. Sujay Kumar Mandal	1995	Head & Associate Professor, Dept. of Folklore, University of Kalyani
Dr. Debalina Debnath	1995	Assistant Professor, Dept. of Folklore, Kalyani University
Smt. Ranjana Bhattacharya	1997	WBCS Officer, BDO
Sri Pinaki Roy	1997	WBCS Officer, Gr. A
Smt. Susmita Chakraborty	1998	Asst. Professor, Dept. of Folklore, Rajsahi University, Bangladesh

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

A. List of Special Lectures, Seminars, Workshops, fieldworks etc.: See Table in 30

**B. List of external experts involving in different academic programmes:**

1. Janab Shamsuzzaman Khan, Director General, Bangla Academy, Dhaka, Bangladesh
2. Professor Kailash Pattanaik, Department of Oriya, Viswa Bharati University
3. Professor Giribala Mohanty, Department of Oriya, Viswa Bharati University
4. Dr. Sk. Makbul Islam, Associate Professor, St. Paul's College, Kolkata and Visiting Faculty, Ramakrishna Mission Vivekananda University, Belur Math
5. Dr. Prabinchandra Das, Senior Folklorist of Assam and Guest Faculty of the Department of Folklore Research, Guahati University, Assam
6. Professor P. Subbachary, Dean, Faculty of Humanities & Social Science and HoD, Department of Folklore & Tribal Studies, Dravidian University, Kuppam, Andhra Pradesh.
7. Professor Biplab Chakraborty, Former Professor, Burdwan University
8. Corola Erika Lorea, Doctoral Research Fellow, Oriental Studies, La Sapienza University of Rome, Italy
9. Professor Roma Chatterjee, Faculty, Department of Sociology, University of Delhi, New Delhi.
10. Professor Kishore Bhattacharjee, Head, Department of Folklore Research, Gauhati University
11. Dr. Soumen Sen, Former Faculty, Department of Culture & Creative Studies, NEHU, Shillong, Meghalaya
12. Professor Manas Majumder, Former Faculty in Bengali, Calcutta University

13. Professor Achintya Biswas, Former Vice-Chancellor, Gour Banga University & Professor, Dept. of Bengali, Jadavpur University
14. Professor Bikash Roy, Faculty in Bengali, Gour Banga University
15. Dr. Sanjoy De, Faculty in Bengali, Nagoun College, Gauhati University,
16. Dr. Bikash Kanti Middy, Faculty in Bengali, Rabindra Bharati University
17. Prof. Lalitluangliana Khiangte, Faculty in Mizo, Mizoram University
18. Dr. Dhruba Chandra Das, Faculty in Drama, Rabindra Bharati University
19. Dr. Dipak Roy, Faculty in Bengali, North Bengal University
20. Dr. Milan Kanti Biswas, Faculty in Bengali, Viswa-Bharati
21. Dr. Monanjali Bandyopadhyay, Dept. of Bengali, Vidyasagar University
22. Professor Wakil Ahmed, Former Vice-Chancellor, National University, Bangladesh and Former Pro-Vice-Chancellor, Dhaka University, Dhaka, Bangladesh
22. Dr. Udayshankar Biswas, Assistant Professor, Department of Folklore, Rajshahi University, Rajshahi, Bangladesh etc.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Lecture method and power point presentation.
- Fieldwork-cum-workshop
- Study and visit to museum.
- Documentary film show

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Programmes are met through different teaching methodologies coupled with library facility and learning outcomes are monitored through evaluation system.
- Pooling of feedback from faculty members and students.

**47. Highlight the participation of students and faculty in extension activities.**

Participated in the number of extension activities organized by the department

and the University i.e. NSS, Inter-University East Zone Youth Festival, Inter-University National Youth Festival, Student Awareness Programmes on Anti-ragging, Anti Sexual Harassment, Health Awareness Programme etc.

**48. Give details of “beyond syllabus scholarly activities” of the department:**

- Students, Research Scholars and Faculty members are constantly encouraged to present papers in the national and international level seminars, symposiums.
- Research Scholars and Faculty members are participating in the workshops and hands on training programmes on modern techniques, upcoming methods and etc.
- Research Scholars and Faculty members are publishing articles in the reputed journals at national and international level.
- The department regularly conducted fieldwork on folklore and tribal lore for students and research scholars.
- Students are taken for archaeological explorations.

- Students are taken for museum visits in different places.
- Students are taken for educational tours.
- The Department celebrated World Folklore Day and International Day of Indigenous People, *Basata Utsab* etc.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The faculty members of the Department have been invited as resource person, visiting faculty and expert members for various academic purposes. To expand and enhance the advance knowledge, in the specialized areas the faculty members at both national and international level of the Department have designed and conducted various courses/training programmes etc. New course of M. Phil has been introduced and new course in PG programme have been initiated during this period to generate new knowledge which are having contemporary relevance i.e. traditional knowledge system, tribal studies, cultural studies, gender studies, folklore and tourism etc. Faculty members attend lectures and present research papers in Seminars, Conferences, Workshops etc. at various universities and institutions in West Bengal and the country as a whole, under the External Engagement Program. Under this Program, faculty are encouraged to participate in teaching, research, publishing and extension activities outside the University.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

Strengths	Weaknesses
<ul style="list-style-type: none"> <li>➤ Culturally diverse and vibrant students</li> <li>➤ Resourceful library</li> <li>➤ Resourceful Folklore Museum &amp; Archive</li> <li>➤ Friendly student-teacher relationship</li> <li>➤ Rural students</li> <li>➤ Girls students are many</li> <li>➤ SC/ST/OBC/Minority- majority students</li> <li>➤ Resourceful and energetic faculty members</li> </ul>	<ul style="list-style-type: none"> <li>➤ Lack of adequate number of faculty from social science background</li> <li>➤ Lack of infrastructural inputs</li> <li>➤ Lack of Computer lab for the students and research scholars</li> <li>➤ Comparatively less job opportunity of the students.</li> <li>➤ No adequate attention to the this interdisciplinary field</li> <li>➤ Limited number of non-teaching support staff</li> <li>➤ Exposure in less</li> </ul>
Opportunities	Challenges (SWOC)
<ul style="list-style-type: none"> <li>➤ Significant potential for the Department to become a centre of excellence</li> <li>➤ Interdisciplinary opportunity more</li> <li>➤ More faculty and students exchange programs with international Universities.</li> <li>➤ Scope for getting more funded research projects.</li> <li>➤ Opportunity for contributing to rural area development through Public Folklore activities</li> </ul>	<ul style="list-style-type: none"> <li>➤ Compete with urban/elite students</li> <li>➤ Communication in English</li> <li>➤ Upgrading skills of students coming from rural background</li> <li>➤ Maximization of research output with limited resources</li> <li>➤ To expand folklore study in different universities in West Bengal</li> <li>➤ ICT</li> <li>➤ Building a strong academic-culture in the Department relating to academics.</li> </ul>

**52. Future plans of the department:**

1. To introduce the One Year PG Diploma Course in Museology.
2. To introduce the One Year PG Diploma Course in Cultural Tourism and Folklore.
3. To make the departmental Folklore Museum and Archive well equipped with different articles and make it open for the viewers.
4. To organize conference, seminars, training, workshops and special and distinguished lectures on folklore and tribal lore studies at regular interval.
5. To organize the training programmes, workshops and short-term courses for research scholar on Research Methodology of Social Sciences.
6. To develop the teaching-learning process in smart class room atmosphere.



# DEPARTMENT OF GEOGRAPHY



1. **Name of the Department:** Geography
2. **Year of establishment:** 2003
3. **Is the Department part of a School/Faculty of the university?** Faculty of Science
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt. etc.)**

Name of the Programmes	Eligibility	Intake Capacity	Duration
M.A. /M.Sc. (Geography)	B.A./B.Sc.Hons.in Geography	33 students	2 years
Ph. D. in Geography	M.A./M. Sc. (Geography)	08 Scholars per Teacher at a time	Within five years (Subject to extension)

5. **Interdisciplinary programmes and departments involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :**  
Nil
7. **Details of programmes discontinued, if any, with reasons.** Nil
8. **Examination System:** Annual/Semester/Trimester/Choice Based Credit System  
Choice Based Credit System (Started from 2014-2015 Session)
9. **Participation of the department in the courses offered by other departments:**  
Suvendu Roy (UGC-JRF), Research Scholar of this Department has participated in The Ph.D. Course Work in the Department of Environmental Science, University of Kalyani.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Teaching Posts	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	NIL	01
Associate Professors	01	NIL	01 (Reader-Base Post)
Asst. Professors	03	02	03
Others	NIL	NIL	NIL

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. Tarun Kumar Mondal	M.A., Ph.D.	Head of the Department & Assistant Professor	Advanced Agricultural Geography; Social Geography; Contemporary issues in India	08+	05 Ph.D. Scholars(04 continuing& 01 submitted)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. AbhaySankarSahu	M. Sc., Ph.D.	Assistant Professor	Environmental Geomorphology, Environmental Geography, and Hazard Geography	09+	04Ph.D. Scholar (continuing)
Dr. Premangshu Chakraborty* (*Resigned from his service of this University on 24.09.2014 )	M.A., Ph.D.	Associate Professor	Cultural Geography and Tourism Geography	13	07 Ph.D. Scholars (03 awarded & 04 submitted)

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil**

**13. Percentage of classes taken by temporary faculty – programme-wise information**

Year	Programme (s)	Percentage of classes taken by temporary faculty
2011-2012	M.A./M.Sc.	22.8%
2012-2013	M.A./M.Sc.	18.2%
2012-2013	Ph.D. Course Work	10.5%
2013-2014	M.A./M.Sc.	12.4%
2014-2015	M.A./M.Sc.	11.3%

**14. Programme-wise Student Teacher Ratio**

Year	Programme (s)	Student Teacher Ratio
2011-2012	M.A./M.Sc.	30:1
2012-2013	M.A./M.Sc.	20:1
2013-2014	M.A./M.Sc.	20:1
2014-2015	M.A./M.Sc.	30:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

(i) Permanent Non- Teaching Staff:

Sl.No.	Name	Designation
1	Tapas Kumar Datta	Supt. Technical
2	Atul Kumar Mandal	Junior Assistant
3	Kesto Singh	Office Attendant

(ii) Contractual Non- Teaching Staff:

Sl.No.	Name	Designation
1	Swati Ghosh	Cartographer (Contractual)



**16. Research thrust areas as recognized by major funding agencies**

- i) Agricultural Geography.
- ii) Analysis of Space.
- iii) Community Development Aspects.
- iv) Disaster Management.
- v) Environmental Issues.
- vi) Forestry and Environment.
- vii) Gender Studies.
- viii) Physical Geography.
- ix) Social Geography.
- x) Tourism-Environment Relationship.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

- (i) Research Investigator (RI) in the UGC-BSR Start-up Grant. Title - Environmental Consequences of Water-logging Problem in PurbaMedinipur District, West Bengal: Evaluation, Mapping, and Management, UGC sponsored (UGC Reference No. : F. 20-3(17)/2012(BSR) dated: 08-March-2013), Amount - Rs. 6,00,000.00 (Completed)[Duration: 01.04.2013 to 31.03.2015]
- (ii) UGC Major Research Project-entitled “Geography of Tourism in Rarh Region of West Bengal” (date of commencement 01.10.2012). Sanctioned Amount Rs. 7,17,000.00. Principal Investigator: Dr. Premangshu Chakraborty\*, Associate Professor, Department of Geography, K.U. (\*Resigned from his service of this university on 24.09.2014)

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration: NIL
- b) International collaboration: NIL

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc. : total grants received. NIL****20. Research facility / centre with**

- a. state recognition: NIL
- b. national recognition: NIL
- c. international recognition: NIL

**21. Special research laboratories sponsored by / created by industry or corporate bodies : NIL****22. Publications:**

☐ Number of papers published in peer reviewed journals (national / international)

- \* Monographs
- \* Chapters in Books
- \* Edited Books
- \* Books with ISBN with details of publishers
- \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)N.A.

- \* Citation Index – range / average N.A.
- \* SNIP NA
- \* SJR NA
- \* Impact Factor – range / average \*h-index

#### Publication of the Faculties:

Name of the Faculty	Number of papers published in peer reviewed journals (national / international)	Monographs	Chapters in Books	Edited Books	Books with ISBN with details of publishers
Dr. T.K. Mondal	10 (International 01/National-09)	NIL	01 (International)	NIL	NIL
Dr.A.S. Sahu	12 (International - 03/National-09)	NIL	01 (National)	NIL	NIL

Details of the Publication of each faculty members attached in extra sheet.

23. **Details of patents and income generated:** NA

24. **Areas of consultancy and income generated:** NA

25. **Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad:** NA

#### 26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify):

Dr. T.K. Mondal:

- (i) Life Member, Geographical Society of India, University of Calcutta, Kolkata, West Bengal, India.
- (ii) Life Member & Member of the Secretariat Body, Indian Institute of Landscape Ecology and Ekistics, Calcutta, West Bengal, India.
- (iii) Life Member, National Association of Geographers, India (NAGI), New Delhi, India
- (iv) Life Member, Indian Geographical Foundation, C/O. Dr.Arun Kumar Singh, Shree Ranjani Housing Society, Apt. Puja-3, 662 Picnic Garden Road, Tiljala, Kolkata-700039, W.B., India.
- (v) Life Member, National Geographical Society of India, Banaras Hindu University, Varanasi, UP, India
- (vi) Member, Regional Science Association, India, CK-134, Salt Lake City, Sector-II, Kolkata-700091, West Bengal, India.
- (vii) Ordinary Member, Indian Statistical Institute, 203 B.T. Road, Kolkata-700108, West Bengal, India.

Dr. A.S. Sahu:

1. Life Member (L/S – 144), The Geographical Society of India (GSI), Kolkata, since 2007.
2. Life Member (LM – 1695), National Association of Geographers India (NAGI), Delhi, since 2007.
3. Life Member (LM – 671), Institute of Indian Geographers (IIG), Pune, since 2007.
4. Life Member (LM – 751), The Deccan Geographical Society (DGS), Pune, since 2008.
5. Life Member (LM – 197), The Association for Geographical Studies (AGS), Delhi, since 2008.

6. Life Member (LM – 2269), Indian National Cartographic Association (INCA), Hyderabad, since 2008.
7. Life Member, Institute of Landscape, Ecology and Ekistics (ILEE), Kolkata, since 2009.
8. Life Member (LM/019/09/292), BangiyoBhugol Mancha (BBM), Kolkata, since 2010.
9. Life Member (LM – 122), Indian Geographical Foundation (IGF), Kolkata, since 2010.
10. Life Member (LM – 296), The Indian Society for Ecological Economics (INSEE), Delhi, since 2010.
11. Life Member (L – 3637), Indian Society of Remote Sensing (ISRS), Dehra Dun, since 2010.
12. Life Member (L – 18913), The Indian Science Congress Association (ISCA), Kolkata, since 2011.
13. Life Member (L – 473), Indian Institute of Geomorphologists (IGI), Allahabad, since 2012.
14. Life Member (L – B 173), BangiyaArthanitiParishad (Bengal Economic Association) [BEA], Kolkata, since 2012.
15. Ordinary Member in Council forMS Academic (CMSA), Kalyani, West Bengal, since 2011.
16. Ordinary Member in Sociological Association of West Bengal (SAWB), Kolkata, since 2012.
17. Ordinary Member (AM – 175) in Regional Science Association, India (RSAI), Kolkata, since 2012.
18. Ordinary Member in Council for Academic Spectrum (CAS), Kalyani, West Bengal, since 2012.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

Dr.T.K.Mondal

- (i) NNRMS-ISRO Sponsored Certificate course attended on RS & GIS in Cartography and Mapping - Certificate Course, Indian Institute of Remote Sensing (IIRS), Government of India, Dehradun, Uttarakhand, Duration: 05.05.2014 to 27.06.2014, Organiser (s): NNRMS-ISRO SPONSORED (IIRS), Grade/Marks: Distinction.

Dr.A.S.Sahu:

- 2015: Two Weeks Special Training Course on Microwave Remote Sensing Applications. From NRSC(ISRO, Dept. of Space, Govt. of India), Hyderabad, India, successfully completed

**28. Student projects**

- a. percentage of students who have done in-house projects including inter-departmental projects : NA
- b. percentage of students doing projects in collaboration with other universities/ industry / institute : NA

**29. Awards / recognitions received at the national and international level by**

- a. Faculty: NA
- b. Doctoral / post doctoral fellows:NA
- c. Students: Second prize awarded to BappaMondal (Semester-I) in postal presentation in West Bengal State Student-Youth Science Fair, 2014

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ International) with details of outstanding participants, if any.**

Date	Theme	Sponsoring Agency	Organised By
04 <sup>th</sup> September 2014	Geography of Tourism	UGC	Department of Geography, University of Kalyani
23 <sup>rd</sup> December 2013	Geoinformatics and Landuse Change	DST-PURSE	Department of Geography, University of Kalyani

**31. Code of ethics for research followed by the departments:**

Research ethics is within the Ph.D. Course Work Syllabus.

**32. Student profile programme-wise:**

Year	Programme (s)	Application received	Selected		Pass percentage	
			Male	Female	Male	Female
2010-2012	M.A./M.Sc.	-	19	11	100%	100%
2011-2013	M.A./M.Sc.	742	19	11	100%	100%
2012-2014	M.A./M.Sc.	760	15	15	100%	100%
2013-2015	M.A./M.Sc.	761	18	12	100%	100%
2014-2016	M.A./M.Sc.	987	16	15	-	-

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET Qualified	53
SET Qualified	18

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	-----
PG to M.Phil.	NA
PG to Ph.D.	-----
Ph.D. to Post-Doctoral	NA
Employed	
<input type="checkbox"/> Campus selection	NIL
<input type="checkbox"/> Other than campus recruitment	
Entrepreneurs	NA

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	NIL
from other universities within the State	Three (including Dr. Chakraborty who resigned on 24.09.2014)
from universities from other States from	NIL
universities outside the country	NIL

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library : NIL
- b) Internet facilities for staff and students: Yes
- c) Total number of class rooms: 03
- d) Class rooms with ICT facility: 02
- e) Students' laboratories: 02
- f) Research laboratories: 02

**38. List of doctoral, post-doctoral students and Research Associates: NIL**

- a. from the host institution/university: NA
- b. from other institutions/universities: NA

**39. Number of post graduate students getting financial assistance from the university.**

Four Students from each Semester.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

In keeping with the proposed CBCS Semester system (2014 onwards ) at Post Graduate Level, some changes have been made in the curricular design. The highlights of the adopted methodology are as follow:

Major changes in the curricular design:

- i) Incorporation of current issues of environment and hazard management in theoretical papers.
- ii) Introducing Tourism Geography as special paper in view of increasing employment opportunity in tourism sector.
- iii) Special emphasis in field study- thrust on accuracy in data collection by applying instruments as well questionnaires.
- iv) Analysis of field data- application of statistical software i.e. SPSS.
- v) Introducing of image processing by software technology i.e. GEOMETICA.
- vi) Application of GIS (Geometica, Arc View softwares, TNT mips)

Salient features of the curricular design and development:

- i) To ensure the all-round development of the learners the curricular design properly distributes its emphasis on religious, moral, intellectual and aesthetic aspects of learning.
- ii) This curricular design pays simultaneous attention to the theoretical and the practical.
- iii) The curricular design conforms to the principle of community-centredness, principle of creativity, principle of preservation and principle of forward looking.
- iv) The curricular aspires to the development of society in general and the development of individual personality in particular.
- v) The curricular is in tune with the course structure of NET/SET and other related examinations.
- vi) It touches upon the emerging social and environmental issues.
- vii) This curricular is fundamentally based on SYSTEM APPROACH which offers the scope of continual self- evaluation.

- viii) The curricular includes GIS, Remote Sensing, SPSS, Survey, Field study which make the students familiar with modern technological skills and devices and thereby making them eligible for getting jobs in various public and private concerns.

**42. Does the department obtain feedback from: Yes**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes.

- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Feedback forms are collected from the students and on the basis of it, remedial classes/ tutorial classes and more innovative techniques in teaching –learning process applied.

- iii. alumni and employers on the programmes offered and how does the department utilize the feedback?

NA

**43. List the distinguished alumni of the department (maximum 10)**

- (i) Subhajit Das  
(ii) SakilaHaque  
(iii) BarnaliDas  
(iv) SyfujjamanTaraferder  
(v) Debabrata Mondal

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

(A) Major Seminar And Workshop Organised

DATE	THEME	SPONSORING AGENCY	ORGANISED BY
04 <sup>th</sup> September 2014	Geography of Tourism	UGC	Department of Geography, University of Kalyani
23 <sup>rd</sup> December 2013	Geoinformatics and Landuse Change	DST-PURSE	Department of Geography, University of Kalyani

(B) Special lectures delivered by the Eminent Professor/Scholars on different topics from the M.A./M.Sc. Syllabus.

**45. List the teaching methods adopted by the faculty for different programmes.**

- i) Reducing the importance of lecture method and enhancing the need of interactive engagement.  
ii) Regular teacher-student interaction and identification of grey areas for remedies special audio-visual classes are arranged on the basis of students' feedback on identified aspects to supplement the theoretical lectures which are already delivered.  
iii) Tutorial classes and field studies with instruments like Global Positioning System (GPS), soil testing kit, survey instruments etc.  
iv) Teaching-Learning Process involves group discussions, seminar presentations, project works, film show, field survey etc.  
v) Accessing the internet on regular basis.  
vi) Use of computer with sophisticated software like Geometica, TNT mips, Arc View and SPSS.  
viii) Deployment of learner centric measures.

ix) Use of overhead projector and power point presentation on regular basis.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Apart from the formal feedbacks, faculties are always responsible regarding the fulfilment of programme objectives and learning outcomes.

**47. Highlight the participation of students and faculty in extension activities.**

Conducted Field Survey (involving Postgraduate students-2008 onwards)

Year	Places
2011	Bankura, Bankura District; Santiniketan, Birbhum District, W.B.
2012	Medinipur Districts (East & West); Gosaba C.D. Block, South 24 Parganas District, W.B.
2013	Darjiling and Puruliya District, W.B.
2014	Raghunathpur, Puruliya District; Mukutmanipur, Bankura District, W.B.
2015	Paschim Sambhupur Mouza, Ranaghat-I C.D. Block, Nadia (2015)

**48. Give details of “beyond syllabus scholarly activities” of the department.**

Guidance provided for NET/SET/WBCSC Exams and other exams and mock interviews. Guidance also provided for career counseling.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NA**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

New knowledge and development in research in the field of spatial science, social science, culture, tourism, gender studies, environment, agriculture etc. of the Department have been reflected in the publications in reputed journals and presentation in the conference, seminar, symposium, congress etc.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths and Opportunities:**

- (i) RS-GIS Laboratory- Image processing and thematic map generation
- (ii) Surveying and Map Making
- (iii) Research facilities on spatial and socio-cultural issues
- (iv) Adequate facilities to the students for outreach activities.
- (v) Exposure of the students to the Eminent Scholars in Geography.
- (vi) Job opportunities especially in teaching/map making organisations etc.

**Weaknesses:**

- (i) No. of Faculty Member at present only two (both are Assistant Professor)
- (ii) Agricultural Geography Laboratory, Environmental Geography Laboratory, Soil Laboratory & Meteorological Laboratory are not developed.
- (iii) Inadequacy of class rooms.
- (iv) One Scientific Officer for RS/GIS Laboratory is required.
- (v) More Licence for RS/GIS softwares and more internet facilities.



**Challenges (SWOC):**

- (i) Opening of the diverse new special papers at PG Level.
- (ii) Upgradation of RS/GIS Laboratory
- (iii) Set up new laboratories for Agricultural Geography and Environmental Geography.
- (iv) To promote short term special training course on RS/GIS.
- (v) Organisation of National/International Seminars
- (vi) Continuous up-gradation of curriculum towards the Students' placement and job opportunities

**52. Future plans of the department.**

- Initiation of the Special Papers Agricultural Geography & Environmental Geography
- Set up of the Agricultural Geography Laboratory, Environmental Geography Laboratory, Soil Laboratory & Meteorological Laboratory (Mini weather station)
- Extension and Modification of the RS & GIS Laboratory
- National Level/International Level Seminars Organisation
- Application of Modern Technology based Teaching and Learning
- Publication of Departmental Journal (Research Journal).



# DEPARTMENT OF HINDI



1. **Name of the Department :** Hindi
2. **Year of establishment :** 2015
3. **Is the Department part of a School/Faculty of the university:** The department is attached to Faculty of Arts & Commerce, KU
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** PG
5. **Interdisciplinary programmes and departments involved:** No
6. **Courses in collaboration with other universities, industries, foreign institutions, etc:** No.
7. **Details of programmes discontinued, if any, with reasons:** Not Applicable
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System :**  
Semester and Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:** Not Applicable
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor			
Associate Professors	1	Vacant	
Asst. Professors	2	Vacant	
Others: Technical Assistant			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Madhu Mishra	MA; B.Ed.; Ph.D.; NET (UGC)	Whole-time Contractual Teacher	Anuwad Vigyan; Modern Poetry;	Three (3) Years in Degree College	
Shahnaz Bano	MA.; B.Ed.; M.Phil.; Ph.D.	Whole-Time Contractual Teacher	Medieval Poetry, Modern Prose, Feminism Discourse & Translation	Seven (7) Years (Research and Teaching)	

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors:** No
13. **Percentage of classes taken by temporary faculty–programme-wise information:** Not Applicable
14. **Programme-wise Student Teacher Ratio:** 6:1
15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** One (1)
16. **Research thrust areas as recognized by major funding agencies:** Not Applicable

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:** None

18. **Inter-institutional collaborative projects and associated grants received:** Nil

a) National collaboration

b) International collaboration

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:** Nil

20. **Research facility / centre with** Nil

- state recognition
- national recognition
- international recognition

21. **Special research laboratories sponsored by / created by industry or corporate bodies:** Nil

## 22. Publications:

Number of papers published in peer reviewed journals (national / international) : Seven (8)

Monographs

Chapters in Books: Three

Number listed in International Database (For *e.g.* Web of Science, Scopus,

Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Citation Index – range / average

\* SNIP

SJR

Impact Factor – range / average

\* h-index

23. **Details of patents and income generated:** Nil

24. **Areas of consultancy and income generated:** Nil

25. **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:** None

## 26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)  
None

27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).** None

## 28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects:** 100 per cent
- **percentage of students doing projects in collaboration with other universities/ industry / institute :** Nil

**29. Awards / recognitions received at the national and international level by**

- Faculty: None
- Doctoral / post doctoral fellows: None
- Students: None

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / International) with details of outstanding participants, if any. Nil****31. Code of ethics for research followed by the departments****32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M A		05	08		

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
	All from KU			

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.****35. Student progression**

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	
Employed	
[ Campus selection	
[ Other than campus recruitment	
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	None
From other universities within the State	1
From universities from other States from	1
Universities outside the country	None

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** Nil

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library No
- b) Internet facilities for staff and students Yes
- c) Total number of class rooms: One
- d) Class rooms with ICT facility: No
- e) Students' laboratories: No
- f) Research laboratories: No

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university: Not Applicable
- b) from other institutions/universities

**40. Number of post graduate students getting financial assistance from the university**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology**

**42. Does the department obtain feedback from**

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? To be introduced
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? To be introduced
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

**43. List the distinguished alumni of the department (maximum 10):** Not Applicable

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:** NIL

**45. List the teaching methods adopted by the faculty for different programmes**

Lecture Method

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** To be introduced

**47. Highlight the participation of students and faculty in extension activities.** N/A

**48. Give details of "beyond syllabus scholarly activities" of the department.**

- A) Publication of research articles on emerging issues in language and Literature;
- B) Providing training to interested teaching and non teaching staff of the University in language drafting skills;
- C) Delivering invited lecturer to different target groups for the development of language and communication skill.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** Nil

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. N/A**

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:** Academic Flexibility under CBCS system

**Weakness:** Infrastructure and shortage of staff

**Opportunities:** Growing interest about the subject

**Challenges:** Making optimum utilization of resources available

**52. Future plans of the department.**

1. Offering elective course for other departments;
2. Introduction of M.Phil.; Ph.D.; Programme in Hindi ;
3. Introduction of Course on MA in Functional Hindi;
4. Organization of Seminar/Conference/Workshop on regular basis





# DEPARTMENT OF HISTORY



1. **Name of the Department :** Department of History
2. **Year of Establishment :** 1978
3. **Is the Department part of a Faculty?** Yes, Faculty of Arts & Commerce
4. **Names of Programmes Offered:** P.G.; M.Phil; Ph.D.; D.Litt.
5. **Interdisciplinary programmes and Departments involved:** M.Phil/Ph.D. Course Work Programmes; other departments involved are – Department(s) of Sociology, Political Science, Folklore and Environmental Management.
6. **Courses in collaboration with other universities:** Ph.D. course work programmes.
7. **Details of programmes discontinued:** Nil
8. **Examination System :** Semester and Choice Based Credit System
9. **Participation of the Department in the Courses offered by other deptts :** M.Phil/Ph.D Course Work Programme

#### 10. Details of teaching Posts

Post	Sanctioned	Filled	Actual(including
Professor	01	00	01
Associate Professor	02	02	05
Assistant Professor	04	03	00
(on Lien/promoted)			

#### 11. Faculty Profile

Name	Qualification	Designation	Specialization	Experience	M.Phil, Ph.D. Guidance Last 4 yrs
Dr.S.K.Sarkar	M.A.,Ph.D	Professor	Economic History	35 Years	00
A.K.Ghosh	M.A.	Asso.Professor	Economic,Environmental and Refugee Studies	30 Years	00
Dr.S.K.Sinha	M.A.Ph.D.	Asso.Professor	Folk and Minority Studies	28 Years	00
Dr.S.Chatterjee	M.A.Ph.D	Asso.Professor	History of Science	25 Years	00
Dr.S.Sengupta	M.A.Ph.D	Asso.Professor	Socio-economic, History	25 Years	00
Dr. Malswam	M.A.Ph.D.	Asso.Professor	Tribal History	20 Years	00

12. **List of Senior Visiting Fellows etc. :** None
13. **Percentage of Classes taken by temporary Faculty :** 05%
14. **Programmewise Student-Teacher Ratio :** PG=10:1; M.Phil=1:1; Ph.D.=8:1
15. **No. of Support Staff :** Sanctioned- 03; Filled- 03; Actual- 03
16. **Research Thrust Areas:** Refugee studies, Environmental History, History of Science, Studies of Tribal Blacksmiths and Craft Techniques of Bengal.
17. **No. of Faculties with ongoing Projects :** Nil
18. **Inter-institutional Collaborative Projects :** Nil

19. **Departmental Projects :** Nil

20. **Research Facility/centre with :** Nil

21. **Special Research Laboratories(sponsored by...):** Nil

22. **Publications :**

No. of Papers published in peer reviewed journals : 16

Books (sole author) published in last four years :5

Edited Book :1

23. **Details of Patents and Income generated :** N.A.

24. **Areas of consultancy and Income generated :** N.A.

25. **Faculty selected nationally/internationally to visit :** None

26. **Faculty serving in Editorial Boards :** Alok Kr. Ghosh – Executive Editor of AITIHASIK and Chief Advisor to the Editorial Board of ‘Women Studies’, Kolkata (ISBN-978-93-81037-29-4) ;

- Dr.Sabyasachi Chatterjee is in the Editorial Board of Paschimbanga Itihas Samsad Volumes and
- Dr.Malsawmdawngliana Lailung is the Guest Editor of Historical Journal of Mizoram, Volume-XVI, ISSN 0976-0202 and also a member of the Editorial Board of Shoryabhumii- A peer reviewed International Journal of Multi-disciplinary Research, (ISSN 2319-720x). 2013.

27. **Faculty recharging strategies :**

Dr.Malsawmdawngliana Lailung was :-

Secretary for A 2 day National Seminar on “*Social Justice, Development and Secularism: Philosophical Reflections on Contemporary National and Northeast Indian Scenario*” Sponsored by Indian Council of Philosophical Research, New Delhi, organized by Department of Philosophy, Pachhunga University College (A Constituent College of Mizoram University), Aizawl, Mizoram, 29<sup>th</sup>-30<sup>th</sup> November, 2012. and

Convener- One day International workshop on “*Priorities and Challenges of historical research in Mizoram*” organized by Department of History, Pachhunga University College (A Constituent College of Mizoram University), 8<sup>th</sup> November, 2011.

28. **Students’ Projects :** Nil

29. **Awards received by Faculties**

Alok Kumar Ghosh was awarded for academic excellence by the University of Kalyani in 2014. Dr.Malsawmdawngliana Lailung was awarded Dr.(Mrs). Sheela Raj Award for Best thesis, University of Hyderabad at the Convocation held in 2013.

30. **Seminar/Conference: Seminar held on “The Water Scenario in the 21<sup>st</sup> Century –**

Vulnerabilities and Potentials”, 27-28 June, 2014, in collaboration with Corpus

Research Institute, Kolkata.

31. **Code of Ethics for research followed by the Department:** As per university guidelines.

32. **Student Profile**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
P.G	450	155	79	100%	100%
M.Phil	22	05	01	Ongoing	Ongoing
Ph.D.	20	10	02	100%	100%

**33. Diversity of Students**

Programme % of students from % of students from % of students % of students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from other universities outside the State	% of students from other Countries
P.G./M.Phil/Ph.D	60	40	Nil	Nil

**34. How many students have cleared Civil Services and other examinations?**

Civil Services = 02; NET = 6 ; SET = 28

**35. Student Progression**

PG to M.Phil = 6% , PG to Ph.D = 10%

Ph.d. to Post Doctoral = 00 Employed = 80%

**36. Diversity of staff**

Percentage of Faculty who are graduates –

Of the same University = 00

From other Universities within the state = 99%

From other Universities of other states = 01%

From outside the country = 00

**37. No. of Faculty awarded M.Phil etc. degrees during the assessment period : 01****38. Departmental infrastructural facilities:**

- a) Library: Housed in the Central Library
- b) Internet facilities for staff and students: yes
- c) Total no. of Classrooms: 04
- d) Classrooms with ICT facilities: 01

**39. Doctoral/Post-doctoral students**

Doctoral: From host University = 05; from other Universities = 17

Post-doctoral = Nil

**40. No. of PG students getting financial assistance = 60**

41. Was any need assessment exercise undertaken before development of any new Programme(s)? If so highlight the methodology = Empirical survey, formal feedback

**42. Does the department obtain feedback from?**

- a) faculty on curriculum etc. = yes, discussed in the Departmental Committee and then referred to the Faculty council for more actions.
- b) students on staff etc. = yes, discussed and steps taken as above
- c) alumni and employers = no

**43. List of the distinguished alumni: none**

44. Student enrichment programmes: At least two in a month, special lecture are organised for the students. Students are also encouraged to deliver lecture on topic of their own interests.

**45. Teaching methods:** Both conventional class room teaching and tutorial, with power point presentation, whenever necessary.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored ?** – Through students' feedback.

**47. Highlight the participation of students and faculty in extension activities.**

All of them actively participate in NSS programmes.

**48. Beyond syllabus scholarly activities:** Students perform as far as possible

**49. Whether accredited by other agencies:** No

**50. Contributions of the department in generating new knowledge:** There has been

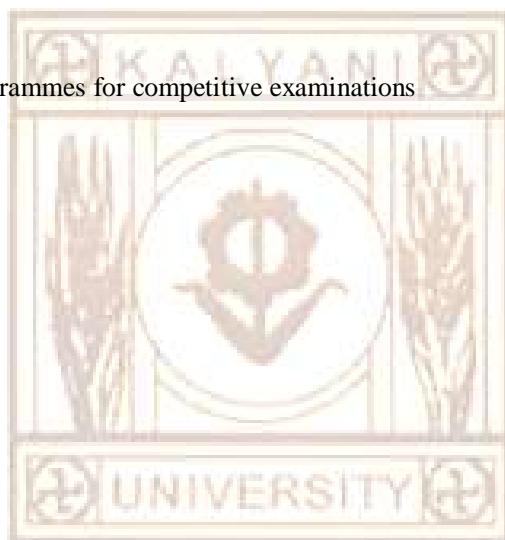
Continuous effort towards enriching fundamental research.

**51. Strengths/weaknesses/opportunities/challenges**

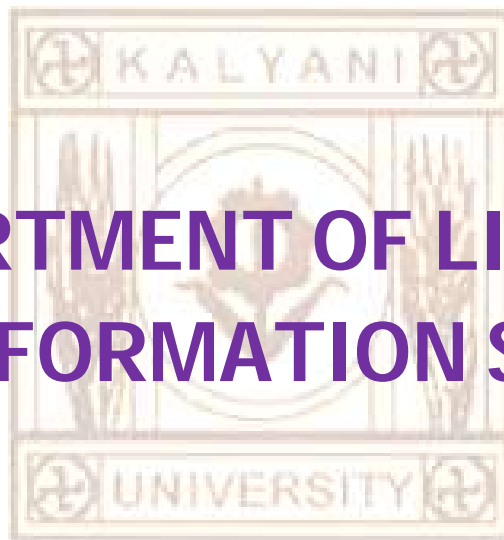
- a) strength – teacher-student personal touch in a homely natural atmosphere, b) weakness – lack of enough space, c) opportunity – freedom from urban hazards, d). challenge – to gear up first generation learners.

**52. Future Plan**

To open up new tutorial programmes for competitive examinations



# DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE



1. **Name of the Department:** Library and Information Science.
2. **Year of Establishment :** 1991
3. **Is the Department part of a school/ Faculty of the University?** Yes, under Faculty of Arts and Commerce.
4. **Name of the programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., D.Sc. D.Litt., etc.)**

Bachelor of Library and Information Science (since inception to 2013-14 sessions).

Master of Library and Information Science – Truncated (up to 2014-15 session).

Master of Library and Information Science – Integrated (CBCS from session 2014-15).

Ph. D.

**5. Interdisciplinary programmes and departments involved**

LIS itself is an inter-disciplinary area of study. Department takes help from different experts within university and from outside institutions.

**6. Courses in collaboration with other universities, industries, foreign institutions, etc.**

Not available at the course level but department has collaborated with Documentation Research and Training Centre (DRTC), ISI, Bangalore in Ph. D. level (Two students already awarded Ph. D. through this collaboration programme).

**7. Details of programmes discontinued, if any, with reasons**

From 2014-15 academic session BLIS programme (One year / two semester truncated) discontinued for introducing MLIS (Two year / Four semester – Integrated) course in CBCS pattern to catch up national trend in LIS education.

**8. Examination System: Annual/ Semester/ Trimester/ Choice Based Credit System**

From academic session 2009-10 to 2013-14: Semester system supported by continuous evaluation; From academic session 2014-15: Choice Based Credit System with end semester examinations supported by Interm assessment.

**9. Participation of the department in the courses offered by other departments**

One Faculty member acted as resource person for Ph. D. coursework programmes conducted by Department of History, Department of Political Science, Department of Physical Education and Department of Commerce; One Faculty member delivered a few lectures on Faculty development programme in Department of Botany; One faculty member acted as resource person for Ph. D. coursework programmes conducted by Department of Botany.

**10. Number of teaching posts sanctioned, filled and actual (Professor/ Associate Professor/ Assistant Professors/ Others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	01
Associate Professors	01	01	02
Asst. Professors	04	02	01
Others	Office staff – 01	01	01
	Office attendant – 01	01	01



### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. / M.Phil. students guided for the last 4 years
Juran Krishna Sharkhel	MLIS (Gold Medalist), Ph D	Professor	Information Retrieval System	27	02 (awarded) 08 (Ongoing)
Shri Sabuj Dasgupta	M.Com, ADISc	Associate Professor	Resource Description	22	Nil (awarded) 07 (Ongoing)
Dr. Parthasarathi Mukhopadhyay	BLIS (Gold Medalist), MLIS (Gold Medalist), UGC-NET (JRF), Ph D	Associate Professor	Automated and Digital Library Systems	13 years	02 (awarded) 06 (Ongoing)
Dr. Sibsanakar Jana	MLIS (Gold Medalist), M.Sc (Geology), PGDDL (equiv. To MLIS), Ph. D.	Assistant Professor	Library Classification, Web-page development, Online searching, Programming in LIS	7 years	05 (Ongoing)

### 12. List of senior Visiting Fellows, Adjunct faculty, emeritus professors

Prof. Amitabha Chatterjee, Retd. Prof., DLIS, Jadavpur University, Kolkata -32

Prof. S. B. Ghosh, Retd. Prof., DLIS, IGNOU, New Delhi - 67

Mr. Arup RoyChaudhury, Indian Statistical Institute, Kolkata

Dr. S. G. Nandi, Retd. Chief Librarian, Viswabharati University, Santinekatan

Dr. B. Sutradhar, Librarian, IIT, Kharagpur

### 13. Percentage of classes taken by temporary faculty – programme-wise information

#### 2011-12 to 2013-14 sessions

Bachelor of Library and Information Science – 10 % classes

Master of Library and Information Science - 13 % classes

#### 2014-15 sessions onwards

Master of Library and Information Science (Integrated) - 3.5 % classes

Master of Library and Information Science (Truncated) - 4.5 % classes

**14. Programme-wise Student Teacher Ratio**2011-12 to 2013-14 sessions

Bachelor of Library and Information Science – 7.5: 1

Master of Library and Information Science - 3.75 : 1

2014-15 sessions onwards

Master of Library and Information Science (Integrated) - 6.25 : 1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Support staff (Technical): Sanctioned – Nil; Filled – Nil; Actual – Nil

Administrative staff: Sanctioned – 01; Filled – 01; Actual – 01

**16. Research thrust areas as recognized by major funding agencies**

Linked Open Bibliographic Data Integration

Distributed Cataloguing through Z 39.50 Server

Multilingual Information Retrieval

Community Information Services

Digital Library Interoperability

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) total grants received. Give the names of the funding agencies, project title and grants received project-wise. Nil****18. Inter-institutional collaboration projects and associated grants received**

a) National collaboration b) International collaboration.

One of the faculty member is CO-PI of ongoing NMEICT project entitled “Library automation and Resource Sharing Network” (NMEICT, Ministry of HRD, Govt. of India). Project grants – 182 lakhs; Disbursing office – IGNOU, New Delhi; Grants received so far – 2 lakhs (for conducting a national workshop)

**19. Departmental projects funded by DST-FIST; UGC-SAP / CAS, DPE; DBT, ICSSR, AICTE, ect., total grants received. Nil****20. Research facility / centre with**

❖ State recognition Nil

❖ National recognition. Nil

❖ International recognition. Nil

**21. Special research laboratories Sponsored by / created by industry or corporate bodies**

Nil

**22. Publications (2011-12 to 2014-15)**

❖ Number of papers published in peer reviewed journals (national / international).

25

❖ Monographs

Nil

- ❖ Chapters in Book.  
47
- ❖ Edited Books  
04
- ❖ Books with ISBN with details of publishers.  
06
- ❖ Number listed in International Database (For e.g. Web of science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory ,EBSCO host ,etc.)  
215 (Source Google Scholar)
- ❖ Citation index –range / average

Citations received  $(61+146+8) \div$  Papers  $(20+64+36) = 215/120$  by 3 faculty

Average citation 71 per faculty

(Source: Google Scholar)

- ❖ SNIP

Not available

- ❖ SJR

Not available

- ❖ Impact Factor –range / average

Average IF:  $215/120 = 1.8$

- ❖ H-index

Juran Krishna Sarkhel: 3

Parthasarathi Mukhopadhyay: 7

Sibsankar Jana: 1

### 23. Details of patents and income generated

Nil

### 24. Areas of consultancy and income generated

Voluntary basis consultancy services to colleges under Kalyani University in applying open source library management software – Koha and thereby helped in saving public money.

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad.

One faculty member invited to deliver lectures in seminar and workshop at Indian Institute of Technology, Kharagpur.

One faculty member invited by UNESCO to act as a member of curricula design committee and course writer for courses on Open Access

### 26. Faculty serving in

#### a) National committees

One faculty member is member of BOS and Ph. D committees of many state universities and national universities (IGNOU).

Two faculty members are members of the course writing team of IGNOU LIS courses.

One faculty member is in Advisory committee on National Virtual Library Initiative (NVLII) of Ministry of Culture, Govt. of India

## b) International committees

One faculty member acted as member of UNESCO curricula design committee on Open Access

## c) Editorial boards

Two faculty members are members of Editorial Boards of two national level journals.

## d) Any other (please specify)

One faculty member is part of the international developer team of Koha (an open source global library management software)

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

One faculty member attended orientation programme at Academic Staff College, Jadavpur University

One faculty member delivered lectures in five Refresher courses in Library and Information Science at Jadavpur University

One faculty member delivered lectures in 7 Refresher courses in Library and Information Science (at Jadavpur University, Banaras Hindu University, and North Eastern Hill University) and in 25 orientation programmes at Academic Staff College in Burdwan University and acted as Principal Resource person for 10 national workshops in different places in the country.

**28. Student projects**

- ❖ Percentage of students who have done in-house projects including inter-departmental projects.

All 15 students of MLIS (Integrated) (i.e. 100%) require to complete one dissertation project (mostly related to cutting-edge library information technology like digital library, multilingual information retrieval, online ontology etc).

- ❖ Percentage of students doing projects in collaboration with other Universities / Industry / Institute.

Nil

**29. Awards / recognitions received at the national and international level by**

- ❖ Faculty

One faculty received Best Young Teacher in LIS award from Indian Association of Special Libraries and Information Centre in 2010 ( national level library association) during the assessment period.

- ❖ Doctoral / post doctoral fellows Nil

- ❖ Students

Nil

**30. Seminars / Conference / Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

National workshop conducted during September 19-22, 2012 on the topic *Library Automation through Koha*

Source of funding: NMEICT project, Ministry of HRD, Govt. of India

**31. Code of ethics for research followed by the departments**

Qualification set as NET/SET or KURET score

Topic selection and allocation of guide through a board comprises internal faculty members and external experts.

Ph.D coursework

Seminar presentation

Regular publishing

**32. Students profile programme-wise (2009-10 session to 2013-14 session)**

Name of the programme: Bachelor of Library and Information Science (BLIS)

Session	Applications received	Selected	Category														
			Gen			SC			ST			PH			Sports		
			M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total
2014-2015	281	30	9	9	18	2	7	9	1	1	2	1	0	1	0	0	0

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
BLIS – 2014-15	281	13	17	100%	100%

Name of the programme: Master of Library and Information Science (MLIS)

Session	Applications received	Selected	Category														
			Gen			SC			ST			PH			Sports		
			M	F	Total	M	F	Total	M	F	Total	M	F	Total	M	F	Total
2014-2015	77	15	5	6	11	1	3	4	0	0	0	0	0	0	0	0	0

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
MLIS – 2014-15 (Int)	200	7	8	--	--

**33. Diversity of Students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from other universities outside the State	% of students from other Countries
BLIS – 2014-15	60%	40%	Nil	Nil

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from other universities outside the State	% of students from other Countries
MLIS – 2014-15	60%	35%	5%	Nil

**34. How many students have cleared Civil Service and Defence Service Examinations, NET, SET, GATE, and other competitive examinations? Give details category-wise.**

A UGC-NET : 19 students qualified

Sl. No	Name	Year of Qualifying NET	Year of Passing BLIS	Year of Passing MLIS	Present Position in the Department
1	Tanusree Bhadra	Dec. 2013	---	2012-2013	Alumni
2	Arpita Saha	Dec. 2013	2010-2011	2011-2012	Alumni
3	Reshmi Sarkar	Dec. 2013	2006-2007	2008-2009	Part-Time Research Scholar
4	Rita Chakraborty	Dec. 2013	1997-1998	1999-2000	Alumni
5	Kaberi Karmakar	Dec. 2013	---	---	Part-Time Research Scholar
6	Nantu Acharya	June 2013	2005-2006	2007-2008	Alumni
7	Debabrata Barman	Dec. 2012	2009-2010	2010-2011	JRF
8	Ranjan Karmakar	June 2012	2009-2010	---	Alumni
9	Md. Ajimuddin Sk.	June 2012	2009-2010	2010-2011	URS
10	Dibakar Das	June 2012	2009-2010	2010-2011	JRF
11	Rabi Kumar Dey	June 2012	2000-2001	2002-2003	Part-Time Research Scholar
12	Sumanta Kumar Das	June 2012	2008-2009	2009-2010	Alumni
13	Niti Mollah	June 2012	----	----	Part-Time Research Scholar
14	Radha Rani Rit	June 2012	----	----	Part-Time Research Scholar
15	Parthasarathi Das	June 2012	----	----	Part-Time Research Scholar
16	Piyali Das	June 2012	----	----	Part-Time Research Scholar
17	Tulima Dey	June 2010	1997-1998	----	Part-Time Research Scholar
18	Prasenjit Pramanik	June 2010	2004-2005	2006-2007	Alumni
19	Gautam Biswas	Dec. 2006	----	2005-2006	Alumni

B SET – West Bengal : 10 students qualified

Sl. No	Name of the	Year of Passing	Present Position in the Department
1	Sambhu Nath Halder	2007	Alumni ( Passing Year 2005)
2	Aparna Panday	2009	Part-Time Research Scholar
3	Prodip Das	2009	Alumni ( Passing Year 2008)
4	Lakshman Sarkar	2009	Part-Time Research Scholar
5	Tulima Dey	2010	Part-Time Research Scholar
6	Dilip Kumar Mondal	2014	Alumni ( Passing Year 2011)
7	Indrajit Dey	2014	Alumni ( Passing Year 2012)
8	Amit Roy	2014	Part-Time Research Scholar
9	Reshmi Sarkar	2014	Part-Time Research Scholar
10	Kaberi Karmakar	2014	Part-Time Research Scholar

C West Bengal College Service Commission 2014 : 16 students qualified (with five students in the top ten list)

## Rank in General List

Sl. No	Name of the Candidates	Rank in General List	Present Position in the Department
1	Tulima Dey	02	Part-Time Research Scholar
2	Piyali Das	05	Part-Time Research Scholar
3	Radharani Tit	06	Part-Time Research Scholar
4	Sambhu Nath Halder	07	Alumni ( Passing Year 2005)
5	Lakshman Sarkar	10	Part-Time Research Scholar
6	Ranjan Karmakar	16	Alumni ( Passing Year 2010)
7	Niti Mollah	18	Part-Time Research Scholar
8	Swarnali Chatterjee	22	Part-Time Research Scholar
9	Md Ajimuddin Sk	27	University Research Scholar
10	Rabi Kumar Dey	30	Part-Time Research Scholar
11	Prosenjit Pramanick	37	Alumni ( Passing Year 2007)
12	Aparna Panday	65	Part-Time Research Scholar
13	Prodip Das	74	Alumni ( Passing Year 2008)
14	Sumanta Kumar Das	77	Alumni ( Passing Year 2010)
15	Dibakar Das	90	Junior Research Fellow
16	Gautam Biswas	132	Alumni ( Passing Year 2006)

## Rank in SC List

Sl. No	Name of the Candidates	Rank in SC List	Present Position in the Department
1	Lakshman Sarkar	02	Part-Time Research Scholar
2	Sumanta Kumar Das	09	Alumni ( Passing Year 2010)
3	Dibakar Das	12	Junior Research Fellow
4	Gautam Biswas	33	Alumni ( Passing Year 2006)

## D West Bengal School Service 2014 : 13 students appeared in the final merit list

Sl.No	Name of the Candidates	Zone	Present Position in the Department
1	Tulima Dey	South-Eastern	Part-Time Research Scholar
2	Mala Saha	South-Eastern	Alumni ( Passing Year 2011)
3	Manisha Ghosh	South-Eastern	Alumni ( Passing Year 2012)
4	Gourisankar Dutta	South-Eastern	Alumni ( Passing Year 2004)
5	Soma Sen	South-Eastern	Alumni ( Passing Year 2010)
6	Sanhita Sarkar	South-Eastern	Alumni ( Passing Year 2012)
7	Pampa Bhadra	South-Eastern	Alumni ( Passing Year 2012)
8	Mokbul Rahaman	South-Eastern	Part-Time Research Scholar
9	Atreyee Chakraborty	South-Eastern	Alumni ( Passing Year 2013)
10	Chiranjit Maity	Northern	Alumni ( Passing Year 2012)
11	Indrajit Dey	Northern	Alumni ( Passing Year 2012)
12	Tirtha Das	Northern	Alumni ( Passing Year 2010)
13	Ankira Sannyal	Eastern	Alumni ( Passing Year 2013)

## 35. Student progression

Student Progression	Percentage against enrolled
UG to PG	50 %
PG to M.Phil.	NA
PG to Ph.D.	10%
Ph.D. to Post Doctoral	NA



Student Progression	Percentage against enrolled
Employed <ul style="list-style-type: none"> <li>❖ Campus selection</li> <li>❖ Other than campus recruitment</li> </ul>	Department placed: 25 Through competitive examination: 100 Others (Viva/Interview/Trade test): 15
Entrepreneurs	Nil

### 36. Diversity of Staff

Percentage of Faculty who are Graduates	
Of the same University	Nil
From other universities within the State	100%
From universities from other States	Nil
From Universities outside the country	Nil

### 37. Number of Faculty who were awarded M.Phil., Ph.D., D.Sc., and D.Litt. during the assessment period.

One faculty member awarded Ph. D. from Jadavpur University during the assessment period.

### 38. Present details of departmental infrastructural facilities with regard to

- a) Library One workshop cum library
- b) Internet facilities for staff and students Ten computers are connected to Internet
- c) Total number of class rooms Two classrooms
- d) Class rooms with ICT facility Nil
- e) Students laboratories One ICT laboratory
- f) Research laboratories Nil

### 39. List of doctoral, post-doctoral students and research Associates

#### a) from the host institution / university (Doctoral students): 12 students

Sl. No.	Name (Type)	Name of The Supervisor	Date of Admission	Date of Registration	Topic of The Research
1	Laksman Sarkar (Part Time)	Mr. Sabuj Dasgupta	12/07/2010	13/09/2011	Cataloguing Rules for Bengali Documents
2	Aparna Pandey (Part Time)	Mr. Sabuj Dasgupta	06/07/2010	21/12/2012	Indian Manuscripts
3	Tulima Dey (Part Time)	Mr. Sabuj Dasgupta	25/03/2011	24/07/2012	Use of Social Networking Tools
4	Biswajit Das (PartTime)	Prof. Juran Krishna Sarkhel	24/08/2012		Information System of Engineering Colleges
5	Santosh Kumar Tunga (Part Time)	Mr. Sabuj Dasgupta	06/04/2010	21/04/2011	Bibliometric Study of Doctoral Dissertation
6	Surupa Ghosh (Part Time)	Mr. Sabuj Dasgupta	12/07/2010	26/07/2011	Bangla Boier Prochedder Bibartan
7	Suvra Chandra (Part Time)	Prof. Juran Krishna Sarkhel	25/03/2011		Information Literacy
8	Rabi Kumar Dey	Dr. Sibsankar Jana	24/01/2013		Heritage Information System

Sl. No.	Name (Type)	Name of The Supervisor	Date of Admission	Date of Registration	Topic of The Research
	(Part Time)				
9	Dibakar Das (Full Time JRF)	Mr. Sabuj Dasgupta			Citation Analysis
10	Md. Ajimuddin Sk (Full Time URS)	Dr. Sibsankar Jana	05/12/2013		E-Learning in LIS
11	Debabrata Barman (Full Time JRF)	Dr. Parthasarathi Mukhopadhyay			Web-Scale Discovery Service
12	Amit Roy (Part Time)	Dr. Sibsankar Jana			Resource Optimization in IIMs Libraries

b) from other institutions / universities ((Doctoral students): 11 students

Sl. No.	Name (Type)	Name of The Supervisor	Date of Admission	Date of Registration	Topic of The Research
1	Payel Biswas (Part Time)	Prof. Juran Krishna Sarkhel	24/08/2012		Urban Information System
2	Md. Milan Khan (Part Time Foreign Scholar)	Prof. Juran Krishna Sarkhel	03/09/2010	26/04/2011	Information Seeking Behavior
3	Md. Moniruzzaman (Part Time Foreign Scholar)	Mr. Sabuj Dasgupta	24/01/2013		Information Support System of UN Agencies
4	Partha Sarathi Das (Part Time)	Dr. Asitabha Das	23/07/2010		
5	Niti Mollah (Part Time)	Prof. Juran Krishna Sarkhel	24/08/2012		Rural Information System in West Bengal
6	Piyali Das (Part Time)	Prof. Juran Krishna Sarkhel	16/07/2010	26/04/2011	Documentation Of Ethnometic Clinical Plants
7	Debabrata Bhattacharyya (Part Time)	Prof. Juran Krishna Sarkhel	25/03/2011	24/07/2012	Horticultural Information System in India
8	Kaberi Karmakar (Part Time)	Prof. Juran Krishna Sarkhel	24/10/2011	13/12/2012	Bangla Prokasonar Bisai Suchikaran
9	Radharani Rit (Part Time)	Prof. Juran Krishna Sarkhel	24/10/2011	02/04/2013	Ontology Based Organization of Community Information
10	Reshmi Sarkar (Part Time)	Dr. Sibsankar Jana			Referencing & Citation Style in Bengali
11	Raja Biswas (Part Time)	Dr. Sibsankar Jana			Altmetric Study of Scholarly Products

**40. Number of post graduate students getting financial assistance from the university.**

All SC/ST students are getting scholarships through University.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

Yes, Department recently reoriented course curricula in view of the present job requirements in the libraries and information centres by following the methodology as given below:

1. To follow the CDC (UGC committee on LIS curricula revision), 2001;
2. To study and analyze the present job requirements for reflecting the changes in curricula;
3. To incorporate considerable amount of marks and hours in practical training;
4. To analyze the curricula of other LIS schools in India and abroad;
5. To provide scope for specialization;
6. To include open source software, open standards and open learning contents as far as feasible;
7. To covers aspects and attributes of the UGC NET / WBSET syllabus;
8. To design courses in view of the practical requirements of libraries of different size and type.

**42. Does the Department obtain feedback from**

- a) faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes through regular Departmental Committee meetings and through incorporation of agreed-upon changes in the next academic session.

- b) students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes through pre-defined feedback form at the end of the semester. The feedback forms are then placed in the DC meeting for analysis and finally sent to Vice-Chancellor for appropriate action.

- c) Alumni and employers on the programmes offered and how does the department utilize the feedback?

Alumni and potential employers are invited in departmental seminars, workshops, conference, grand seminar etc and their valuable suggestions are incorporated in curricula design and in teaching-learning-evaluation process.

**43. List of distinguished alumni of the department (maximum 10)**

Serial No.	Name	Position held
1	Arabinda Maity	Faculty, DLISc, Calcutta University
2	Dibyendu Pal	Faculty, DLIS, Calcutta University
3	Md. Moniruzzaman	Librarian, UN Information Centre, IDB Bhavan Dhaka-1207
4	Monojit Biswas	Asstt. Librarian M M Dastur Consultancy
5	Mriganka Mondal	Librarian, Central Library, Kalyani University
6	Narayan Ch. Ghosh	Head, Library Division, IICB, CSIR, Jadavpur
7	Partha Pratim Roy	Asst. Librarian, Visva Bharati University
8	Partha Sarathi Das	Asst. Library Inf. Officer, National Library, Kolkata
9	Sneha Tripathi	Asst. Librarian, Banaras Hindu University
10	Sujata Mandal	Tata Consultancy Service, Kolkata

**44. Give the details of student enrichment programmes (special lectures / Workshops / Seminar) involving external experts.**

Special lectures series conducted from 2009-10 session to 2012-13 session with the following experts:

Dr. B. Sutradhar, Chef Librarian, IIT, Kharagpur

Mr. N.C. Ghosh, Head, Library Division, IICB (CSIR), Kolkata

Dr. S. Banerjee, Library Director, USIS, Kolkata

Prof. Amitabha Chatterjee, Retd. Prof., DLIS, Jadavpur University, Kolkata -32

Prof. S. B. Ghosh, Retd. Prof., DLIS, IGNOU, New Delhi - 67

Mr. Arup RoyChaudhury, Indian Statistical Institute, Kolkata

Dr. S. G. Nandi, Retd. Chief Librarian, Viswabharati University, Santinekatan

**45. List the teaching methods adopted by the faculty for different programmes.**

Lecture / Tutorial

Practical orientation /projects to support theoretical knowledge

Use of ICT in teaching-learning-evaluation

Use of LCD projector

Do-by-your-own projects

Career guidance sessions

Use of E-learning and course repositories for students

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Through students' performance in end semester examinations and competitive examinations (like NET, SET, College Service Commission, School Service Commission)

By regular updating course curricula

By encouraging students in independent thinking and in developing solutions for problems reas (like multilingual retrieval)

**47. Highlight the participation of students and faculty in extension activities.**

Faculty members are regularly participating in extension activities by acting as resource persons in workshops, seminars and conferences within and outside the university and by organizing academic events in the department. Some faculty members are helping libraries in setting up automated and digital library systems through the application of open source software.

Students are participating in academic events of the department and seminars, workshops, conferences organized by different organizations across the country.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

Department developed a Ubuntu Linux distribution containing almost all major open source library software (named as Linux for Librarians). This distribution helps libraries in installing those software and supports students in learning the library software.

**49. State whether the programme / department is accredited / graded by other agencies? If yes, give details. Not Applicable**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

**Developed a portable digital library (may be carried in DVD or Pen drive) containing learning resources on LIS.**

Developed solution for Bengali script based information retrieval system to help public libraries.

Developed Linux for Librarians DVD for helping in implementation of open source library software.

**51. Details five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

Team effort; Perfect mixing of youth and experience in faculty; Expertise in open source library software; Student-teacher relationship; Practical orientation of course curricula.

**Weakness:**

Lack of space; Lack of equipments; Lack of documentary resources; Lack of sufficient faculty; Lack of technical staff required for ICT lab.

**Opportunities:**

Expertise of faculty members in cutting-edge library technologies; Alumni of the department; CBCS curricula with comprehensive technical coverage; Orientation of syllabus towards needs of modern libraries; Performance of students in recent national/state level examinations.

**Challenges:**

How to provide required infrastructure to students and scholars? How to tackle the problems of faculty shortage? How to manage required space for specialized courses? How to reflect in curricula the rapid ongoing changes in the field of LIS? How to manage lack of technical support staff for ICT laboratory and workshop?

**52. Future plans of the department.**

To develop comprehensive ICT laboratories by using open source software;

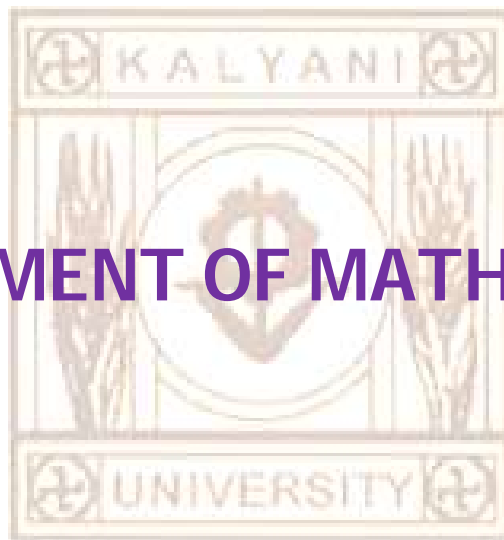
To develop a centre of study on Community Information Service;

To organize workshops series on open source library software;

To start an open access departmental journal;

To act as a consultancy centre for providing support to libraries in implementing automation and digitization

# DEPARTMENT OF MATHEMATICS



- 1 **Name of the Department:** Mathematics
- 2 **Year of establishment :** 1960
- 3 **Is the Department part of a School/Faculty of the university?** Yes
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.):** PG, Ph.D., and D.Sc.
- 5 **Interdisciplinary programmes and departments involved:** Ph.D. Programme with Department of Computer Science & Engineering.
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc.** Nil
- 7 **Details of programmes discontinued, if any, with reasons :** Nil
- 8 **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Semester/ Choice Based Credit System
- 9 **Participation of the department in the courses offered by other departments:** Nil
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	01	02
Associate Professors	04	03	04
Asst. Professors	12	07	05
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualifica-tion	Designa-tion	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr.BijayBaran Pal (Retired on 31 <sup>st</sup> October, 2015)	M.Sc., D.I.I.T, Ph.D	Professor	Operations Research, Fuzzy Logic, Genetic Algorithms, Hybrid Intelligent Systems	31 years	Ph.D. awarded: 05
Dr.IndrajitLahiri	M.Sc., Ph.D., D.Sc.	Professor	Complex Analysis	26 years	Ph.D. awarded: 03
Dr.Samares Pal	M.Sc., Ph.D.	Professor	Mathematical modelling in Ecology.	Teaching: 14 years Research: 16 years	Ph.D. awarded: 04
Dr.SanjibKumar Datta	M.Sc., M. Phil., B.Ed., Ph. D.	Professor	Complex Analysis, Fuzzy Algebra	Teaching: 14 years Research: 16 years	Ph. D. awarded: 14
Dr.Dibyendu De	M.Sc., Ph.D.	Associate	Topology	Teaching:	Ph.D. awarded:



Name	Qualifica-tion	Designa-tion	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
		Professor		14 years Research: 16 years	01
Dr.Abhijit Banerjee	M.Sc., Ph.D.	Professor	Complex Analysis	Teaching: 14 years	Ph.D. awarded: 02
Dr.Animesh Biswas	M.Sc., Ph.D.	Assistant Professor	Operations Research, Fuzzy Sets and Systems	Teaching: 10 Years  Research: 13 Years	M. Phil awarded: 01
Dr.Santen Tamang	M.Sc., Ph.D.	Assistant Professor	Complex Analysis	Teaching: 5 years	NIL
Dr.Pulak Sahoo	M.Sc., Ph.D.	Assistant Professor	Complex Analysis	Teaching: 9 years	Nil
Dr.Avijit Sarkar	M.Sc., Ph.D.	Assistant Professor	Differential Geometry	Teaching: 8 years	Ph.D. awarded: 01
Dr.Sahidul Islam	M.Sc., Ph.D.	Assistant Professor	Operations Research	10 years	Nil

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Adjunct faculty, emeritus professors:

(a) Prof. L. Velimirovic, University of Nis, Serbia

Date of visit: December 12, 2011

Topic of lecture: Geometry and its applications.

(b) Prof. Z. Rakic, University of Belgrade, Serbia

Date of visit: December 12, 2011

Topic of lecture: Geometry and its applications.

(c) Prof. Mihir Kumar Chakraborty, F.A.Sc.T., Retd. Professor, Department of Pure Mathematics, University of Calcutta

Date of visit: May 07, 2013

Topic of lecture: Rough sets

(d) Prof. K. Srinivas Rao, F.N.A.Sc., Retd. Professor, Institute of Mathematical Sciences, Chennai

Dates of visit: August 01 - 02, 2013.

Topic of lecture: Srinivasa Ramanujan : Life and work; Gauss, Ramanujan and hypergeometric series.

(e) Prof. Ravi S. Kulkarni, F.N.A.Sc., President of the Ramanujan Mathematical Society.

Dates of visit: March 13-14, 2014.

Topic of lecture: Function theory and symmetry.

- Visiting Fellows

- (i) Prof.Dilip Kumar Ganguly (2010 – 2011 & 2013 – 2014)
- (ii) Retd.Professor, Department of Pure Mathematics, University of Calcutta.
- (iii) Prof.Arun Kumar Ghosh (2010 – 2011 & 2013 – 2014)
- (iv) Retd.Professor, Department of Mathematics, Jadavpur University.
- (v) Prof.Prabir Kumar Kundu (2011 – 2012)
- (vi) Professor, Department of Mathematics, Jadavpur University.
- (vii) Prof.SubenoyChakraborty (2012 – 2013)
- (viii) Professor, Department of Mathematics, Jadavpur University.
- (ix) Prof.Tapan Kumar Dutta (2012 – 2013)
- (x) Professor, Department of Pure Mathematics, University of Calcutta.

### 13. Percentage of classes taken by temporary faculty – programme-wise information:

PG (3<sup>rd</sup> Semesters): 18%; PG (Other Semesters): Nil

### 14. Programme-wise Student Teacher Ratio: PG: 8:1; Ph.D.: 1:1

### 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: academic support staff (technical): 1; administrative staff: 2

### 16. Research thrust areas as recognized by major funding agencies:

UGC- SAP: (i) Analysis, (ii) Mathematical Biology

### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

*National:*

- i) Name of the PI: Dr.Samares Pal

Funding Agency: DST-SERB under EMR Scheme.

Project title: "Effects of HAB-toxin and insecticide runoff on Coral reef ecosystem".

Grants received: Rs. 11, 02,080/-

- ii) Name of the PI: Dr.Abhijit Banerjee

Funding Agency: CSIR under Major research Project Scheme

Project title: "Some investigations on the uniqueness properties of entire and meromorphic function and related topics"

Grants received:Rs. 11, 50,400/-

### 18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil

b) International collaboration: Nil

### 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. :

- (i) UGC-SAP (2009-14): Rs. 20,00,000/-; (ii) NBHM (2009-12): Rs. 9,45,822/-

### 20. Research facility / centre with

- state recognition

- national recognition
- international recognition

21. **Special research laboratories sponsored by / created by industry or corporate bodies:** Nil

22. **Publications:**

Name of the Teachers	No. Published Papers	Monographs/Chapter in Books/Edited books	Numbers listed in Scopus/Mathscinet	h-index (Scopus)	Mathematics citation quotient Mathscinet
Dr.BijayBaran Pal	55	04	27(Scopus)	7	0.6
Dr.IndrajitLahiri	20	01	11(Scopus)	6	0.6
Dr.Samares Pal	38	Nil	21(Scopus)	7	0.5
Dr.Sanjib Kumar Datta	140	Nil	50(Scopus)	1	0.3
Dr.Dibyendu De	07	Nil	07(Mathscinet)	2	0.5
Dr.Abhijit Banerjee	19	01	19(Scopus)	6	0.5
Dr.AnimeshBiswas	23	Nil	16(Scopus)	4	0.5
Dr.SantenTamang	08	Nil	0(Scopus)	NA	0.3
Dr.PulakSahoo	17	Nil	15(Scopus)	4	0.5
Dr.AvijitSarkar	12	Nil	12(Scopus)	2	0.5
Dr.Sahidul Islam	01	Nil	01(Scopus)	NA	0.5

Range of Impact Factors of Journals: 0 - 3.626 (Thomson Reuters)

23. **Details of patents and income generated :** Nil

24. **Areas of consultancy and income generated :** Nil

25. **Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad**

i) Prof. I.Lahiri

Visited (14.07.2010 to 18.07.2010) University of Eastern Finland, Joensuu Campus, to act as an official opponent for an open defence of a Ph.D. thesis

ii) Dr.S. Pal :

Visited

- Kennesaw State University, Georgia, USA. 2010.
- University of Miami, Coral Gables, Florida, USA. 2010.
- University of Florida, Gainesville, Florida, USA. 2010.
- York University, Toronto, Canada. May, 2013.
- The Fields Institute for Research in Mathematical Sciences, Toronto, Canada. November, 2013.
- Indo-French Centre for Applied Mathematics (IFCAM), Indian Institute of Sciences (IISc), Bangalore. December, 2013.
- Visited Academia Sinica, National University of Taiwan, May 2014.

- Visited National Centre for Theoretical Sciences (NCTS), National Tsing-Hua University, Taiwan, May 2014.

iii) Dr. A.Biswas

Visited (23.10.2013 to 25.10.13) The Berkeley Initiative in Soft Computing, University of California, Berkeley, San Francisco, USA

## 26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

### Prof. B. B. Pal

- Member, Central Executive Council, Operational Research Society of India
- Member, IEEE and IEEE Computational and Intelligent Society
- Life Member of Advanced computing and Communication Society, Bangalore, INDIA.
- Life Member of International Society of Management
- Life Member, Calcutta Mathematical Society
- Life Member, Indian Statistical Institute, Kolkata
- Life Member of Tripura Mathematical society
- Life Member, PaschimBangaBigyan Mancha, WB, India.

• Editorial Board Member of International Journals:

1. International Journal of Applied Management Science, Inderscience
2. International Journal of Data Analysis Techniques and Strategies, Inderscience
3. International Journal of Data Science, Inderscience
4. International Journal of Advances in Management

• Acted as referee for the following journals/Achieves:

1. Information Sciences, Elsevier Science
2. Fuzzy Sets and Systems, Elsevier Science
3. European Journal of Operation Research, Elsevier Science,
4. Computer and Operation Research, Elsevier Science
5. Agricultural water Management, Elsevier Science
6. OPSEARCH, Springer-Verlag
7. Journal of Optimization Theory and Applications, Springer-Verlag
8. Journal of Global Optimization, Springer-Verlag
9. International Journal of Data Analysis Techniques and Strategies, Inderscience
10. International Journal of Applied Management Science, Inderscience
11. SADHANA, Proceedings of the Indian Academy of Engineering Science
12. Advances in Operations Research, Hindawi Pub.

### **Prof. I. Lahiri**

- Vice President, Calcutta Mathematical Society (2012 – 2014).
- Member, Council of Indian Mathematical Society (2010 – 2012).

- Associate Editor of the Bulletin of the Calcutta Mathematical Society (up to 2012).
- Member of the Editorial Board of the Journals:
  1. The Journal of the Indian Academy of Mathematics, Indore for 2009 – 2011 & 2013 – 2015.
  2. Bulletin of Mathematical Analysis and Applications, Prishtine, Kosove.
  3. Mathematical Sciences and Applications E-Notes, Turkiye.
  4. Journal of the Calcutta Mathematical Society (2012 – 2014).
  5. Proceedings of the Jangjeon Mathematical Society, S. Korea.
- Acting as an editor of the book entitled “Current Topics in Pure and Computational Complex Analysis” jointly with Prof. Santosh B. Joshi and Prof. Michael Dorff to be published by Springer (ongoing).
- Acted as Reviewer for the following journals/Achieves:

Dr. S. Pal

- Member, Society for Industrial and Applied Mathematics (SIAM).
- Life Member, Indian Statistical Institute, Kolkata, India.
- Life member and member, The executive council, Calcutta Mathematical Society, Kolkata, India.
- Life member and member, The executive council of Biomathematical Society of India, India.
- Life member, The Indian Science Congress Association.
- Life Member, Indian Society of Industrial and Applied Mathematics (ISIAM).
- Acted as Reviewer for the following journals/Achieves:

Dr. D. De

- Acted as Reviewer of Mathematical Reviews

Dr. S. K. Datta

- Member, The Council of Calcutta Mathematical Society, Kolkata, India, since 2009.
- Editor-in-chief, International Journal of Mathematical Archive (respective section).
- Members of Editorial Boards of the following Journals :
- Acted as Reviewer for the following journals/Achieves:

Dr. A. Banerjee

- Members of Editorial Boards of the following Journals :
- 1. American Journal of mathematics and Statistics, Scientific And Academic Publications
- 2. The Scientific World Journal (Mathematical Analysis section), Hindawi
- Acted as Reviewer for the following journals/Achieves:

Dr. A. Biswas

- Life Member, Indian Statistical Institute, Kolkata, India
- Member, IEEE, Computational Intelligence Society
- Member, World Academy of Science, Engineering and Technology (WASET)
- Member, International Association of Engineers (IAENG)
- Senior Member, International Economics Development Research Center (IEDRC)

- Member, Soft Computing Research Society, India
- Life Member, Tripura Mathematical Society, Tripura, India
- Acted as a reviewer of the following journals :

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

Prof. B. B. Pal

1. One-day workshop on Computational Intelligence in Brain-Computer Interface and Context aware Service Management, IEEE Computational Intelligence Society (Calcutta chapter), hosted by Indian Statistical Institute, Kolkata, on March 14, 2011.
2. One-Day Workshop on Type-II Fuzzy Sets organized by Computational Intelligence Society (IEEE-CIS) within the International Conference on Fuzzy Systems (FUZZ-IEEE-2013), Hyderabad International Convention Centre, India on July 7, 2013,

Dr. D. De

1. ATM School on Riemannian Geometry held at TIFR Bangalore, 2010,
2. Advanced Instructional School on “Combinatorics” Organised by Harish-Chandra Research Institute, Allahabad, Invited Talk on Ultrafilter Approach To Hindman’s Theorem,
3. ATM Workshop on Topological Combinatorics Organised by, Harish-Chandra Research Institute

Dr. A. Biswas

1. National Workshop on Soft Computing and Mathematical Modeling held at Gandhigram Rural Institute, Gandhigram, Tamil Nadu, India during 15 – 20<sup>th</sup> February, 2010
2. Refresher Course on Mathematics held at Department of Mathematics, University of Calcutta, Kolkata during 6<sup>th</sup> – 29<sup>th</sup> August, 2012
3. Orientation Program held in Academic Staff College, University of Calcutta during 15<sup>th</sup> July – 12<sup>th</sup> August, 2014

Dr. P. Sahoo

1. Refresher Course during 25.10.2010 to 15.11.2010 organized by Academic Staff College, Jadavpur University.
2. Orientation Course during 02.03.2009 to 31.03.2009 organized by Academic Staff College, Jadavpur University.

Dr. A. Sarkar

1. Workshop on Differential Geometry at Pune University during August 4-9, 2014
2. ISL Geometric Topology held at BHU Varanasi during July 7-19, 2014
3. ISL Topology and Geometry during December 16-28, 2013, organized by Harish Chandra Research Institute, Allahabad.
4. Advanced Instructional School on Analysis and Geometry 2013 during July 8-27, 2013, organized by TIFR-CAM, Bangalore.
5. Refresher Course in Physics and Mathematics (Interdisciplinary) from January 9-29, 2013, organized by UGC Academic Staff College, North Bengal University.

Dr.S. Islam

1. 2<sup>nd</sup> Refresher Course on Mathematical Modeling and its application in Science held during September 09-29, 2014 at UGC Academic Staff College, The University of Burdwan.
2. 1<sup>st</sup> Refresher Course on Mathematical Modelling and its application in Science held during December 10-30, 2013 at UGC Academic Staff College, The University of Burdwan.
3. 85<sup>th</sup> Orientation Program (OP) held during 07.06.2012 to 04.07.2012 (28 days) at UGC Academic Staff College, The University of Burdwan, Burdwan.
4. Winter School on “Probability, Statistics and Optimization Methods with Applications” during January 19-30, 2009 Sponsored by MHRD/AICTE under Staff Development Programme at National Institute of Technology, Durgapur.

Dr.S. Tamang

1. Teacher’s Enrichment Workshop TEW, 2013 in Complex Analysis at the Vivekananda Mahavidhyalaya, Burdwan, West Bengal during 27<sup>th</sup>-31<sup>st</sup> December, 2013.
2. Advanced Instructional School for Lecturer in Advanced Complex Analysis at the Department of Mathematics, Central University of Rajasthan, Bandar Sindri, Kishargarh, Rajasthan during 24<sup>th</sup> June, 2013 to 13<sup>th</sup> July, 2013.
3. The State level Workshop on “Initiatives on Quality Assurance in Distance Mode of Higher Education” held in the campus of the University of North Bengal during June 25–26, 2010.

**28. Student projects**

- a. percentage of students who have done in-house projects including inter-departmental projects : 100%
- b. percentage of students doing projects in collaboration with other universities
  1. industry / institute : Nil

**29. Awards / recognitions received at the national and international level by**

- a. Faculty

Prof. B. B. Pal

- a) Awarded F.I.S.M. ( Fellow of the International Society of Management)
- b) Honored with IEEE Senior Membership
- c) Best Research Paper awarded for presentation in the
  - (i) International Conference on Advance Computing and Communication (ICACC-2013) dated 16 & 17 March, 2013, Ranchi, India.
  - (ii) IEEE International Conference on Advanced Computing (ICAC-2009), Chennai, 2009.
  - (iii) International Conference on Operations Research Applications in Engineering and Management (ICOREM - 2009), Tiruchirappalli, Chennai, India, 2009.

Dr.S. Pal

- a) Obtained INDO-US Research Fellowship for collaborative research at Georgia Institute of Technology, Atlanta, Georgia, USA in 2010.
- b) Received award from Indo-French Centre for Applied Mathematics (IFCAM) to visit Centre for Ecological Sciences, Indian Institute of Sciences (IISc), Bangalore under visiting fellowship program in December, 2013.
- c) Obtained fellowship under INSA International bilateral exchange programme for collaborative research work at National Centre for Theoretical Sciences (NCTS), Department of Mathematics, National TsingHua University, Taiwan, May 2014.



Dr.A. Banerjee

V. M. Shah Prize for best paper presentation in Analysis awarded by Indian Mathematical Society in 2013

b. Doctoral / post doctoral fellows :

c. Students:

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ International) with details of outstanding participants, if any.**

Title	held during	Funded by
National Seminar on Roles of Mathematical Analysis and Models in Science and Society.	March 17 – 18, 2010	UGC-SAP, University of Kalyani
National Seminar on Analysis, Modelling and Geometry.	March 10 – 11, 2011	UGC-SAP, University of Kalyani
National Seminar on Analysis, Modelling and Geometric Topology.	March 21 – 22, 2012	UGC-SAP, University of Kalyani
National Seminar on Recent Trends in Mathematics.	March 07 – 08, 2013	UGC-SAP, University of Kalyani
National Seminar on Mathematics and its Applications.	March 04 – 05, 2014	UGC-SAP, University of Kalyani, DST-PURSE

**31. Code of ethics for research followed by the departments Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG (Intake in 1 <sup>st</sup> Semester)	1500	76	12	87	100
PhD (per annum on average)	30	10	02	70	50

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG	70	30	Nil	Nil
PhD	75	20	05	Nil

**34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET: 26; SET: 04; GATE: 25

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	NA
PG to M. Phil.	NA
PG to Ph.D.	10 (per annum)
Ph.D. to Post-Doctoral	Nil
Employed <input type="checkbox"/> Campus Selection <input type="checkbox"/> Other than campus recruitment	Nil 80%
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	72
from other universities within the State	28
from universities from other States from	Nil
universities outside the country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period PhD: 01**

**38. Present details of departmental infrastructural facilities with regard to**

- a. Library (Shifted to Central Library in August 2014)
- b. Internet facilities for staff and students : Limited internet facilities are available for staffs and Students
- c. Total number of class rooms : 08
- b) Class rooms with ICT facility : Nil
- c) Students' laboratories : 02
- d) Research laboratories : 01

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university

- Doctoral Students

Prof. I. Lahiri

Rajib Mukherjee; ImrulKaish; Bipul Pal

Dr. S. Pal

PalashMandal; Rinku De;

Dr. S. K. Datta; AnanyaKar; ChinmayGhosh; JinarulHaqueShaikh

Dr. A. Biswas

NilkantaModak; Joy Debnath;

Dr. S. Islam

HaridasBiswas;

Dr. P. Sahoo

SajahanSeikh; BiswajitSaha;

- b. from other institutions/universities

Prof.B. B. Pal

PapunBiswas

Prof. I. Lahiri

Shubhashis Das

Dr. S. Pal

SwapanChakraborty; Joydeb Bhattacharyya; Anal Chatterjee; Nanda Das; IndrajitHalder; DebashisBiswas

Dr. S. K. Datta

ChinmayBiswas; Sarmila Bhattacharyya; PulakeshSen

Dr. D. De

Ms.TanushreeBiswas; Mr.PintuDebnath; Mr.Shubhajit Jana; Ms.ArпитаGhosh

Dr. A. Banerjee

Molla Bashir Ahamed; Mr. Sanjay Mallick; PranabBhattacharjee; GoutamHaldar;  
PaulomiChattopadhyay

Dr. A. Biswas

DebasishMajumder; Samir Kumar; Arnab Kumar De

Dr. A. Sarkar

Ali Akbar; Dr. S. Islam; Sayani Das

**40. Number of post graduate students getting financial assistance from the university.**

PG: University Scholarships: 08; Ph.D: 06

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. NA**

**42. Does the department obtain feedback from**

- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? NA
- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes, Used for Curriculum Developments
- alumni and employers on the programmes offered and how does the department utilize the feedback? NA

**43. List the distinguished alumni of the department (maximum 10)**

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. Lectures Arranged on different aspects of Mathematics by the following subject experts:**

- Prof.Dilip Kumar Ganguly (2010 – 2011 & 2013 – 2014)  
Retired Professor, Department of Pure Mathematics, University of Calcutta.
- Prof.Arun Kumar Ghosh (2010 – 2011 & 2013 – 2014)  
Retired Professor, Department of Mathematics, Jadavpur University.
- Prof.Prabir Kumar Kundu (2011 – 2012)  
Professor, Department of Mathematics, Jadavpur University.
- Prof.SubenoyChakraborty (2012 – 2013)  
Professor, Department of Mathematics, Jadavpur University.
- Prof.Tapan Kumar Dutta (2012 – 2013)  
Professor, Department of Pure Mathematics, University of Calcutta.

**45. List the teaching methods adopted by the faculty for different programmes.**

Class Room Teaching

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? (i) Good Results in Semester Examinations; (ii) A good number of PhD Awardees; (iii) Absorption in different Jobs**

**47. Highlight the participation of students and faculty in extension activities.**

Prof. B. B. Pal

- Acted as a member Syllabus Committee of Mathematics (PG) of Sidho-Kanho-Birsha University, WB, India.

- ii) Acted as a subject expert of the selection committee for recruitment of teachers of
  - (a) West Bengal College Service Commission
  - (b) University of North Bengal
  - (c) JawaharNavodayaVidyalaya, Kalyani Unit, W. B., India.
- iii) Expert Member for Evaluation of Major Project Scheme, under DST, Gov. of India
- iv) Member of the Managing Committee of S.M.A College of Education , Murshidabad, WB
- v) Chaired a session of the following Conferences:
  - (a) International Conference on ICT &Critical Infrastructure, Hyderabad, during December 13-15, 2013.
  - (b) International Conference on Advance Computing and Communication, Ranchi during March 16-17, 2013
  - (c) International Conference on Fuzzy Systems, Hyderabad during July 7 - 10, 2013.
  - (d) International Conference on Computational Intelligence: Modeling, Techniques and Applications, University of Kalyaniduring September 27- 28, 2013.
  - (e) International Conference on Mathematical Modeling& Scientific computation, Gandhigram Rural Institute - DU, TN, India during March 16 -18, 2012.
  - (f) International Conference on Logic, Information, Control & Computation,Gandhigram Rural Institute – DU during February 25-27, 2011.
  - (g) International Conference on Operations & Management Sciences, Institute of Management Technology (IMT) at Nagpur, during February 12 – 13, 2010.
  - (h) International Conference on Operations Research Applications in Engineering and Management at Annauniversity, Tiruchirapalli during May 27- 29, 2009.

Prof. I. Lahiri

- Acted as a member of the selection committee of West Bengal College Service Commission
- Member of the Governing Body of Chakdah College
- Member of the Managing Committee of Springdale Hight School (H.S), Kalyani.

Dr. S. Pal

Chaired a Session at the National Conference on Mathematical and Theoretical Biology.Department of Mathematics, Jadavpur University, Kolkata. 20-21 February, 2014.

Dr. A. Biswas

- i) Member, Board of Studies, JIS College of Engineering and Technology, Kalyani, India
- ii) Acted as a member of the selection committee of West Bengal School Service Commission (South-Eastern Zone)
- iii) Chaired a session of the following Conferences:
  - a) International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO 2013) held at SRM University, Chennai, India during 19 – 21<sup>st</sup>December, 2013
  - b) International Conference on Soft Computing Applications (ICSCA'13), WCECS 2013 held at University of California, Berkeley, USA during 23 – 25<sup>th</sup>October, 2013
  - c) International Conference on Mathematical Modelling and Scientific Computation (ICMMSC 2012) held at Gandhigram Rural Institute – Deemed University, Gandhigram, India during 16 – 18<sup>th</sup>March, 2012

- d) The 2011 International Conference on Scientific Computing (CSC'11)WORLDCOMP'11 held at Monte Carlo Resort, Las Vegas, Nevada, USA during 18 – 21<sup>st</sup>July, 2011
- e) International Conference on Logic, Information, Control and Computation (ICLIICC 2011) held at Gandhigram Rural Institute – Deemed University, Gandhigram, India during 25 – 27<sup>th</sup>February, 2011

#### **48. Give details of “beyond syllabus scholarly activities” of the department.**

##### Prof. B. B. Pal

- i) Acted as an External Member of Board of Research Studies of Department of Mathematics of the West Bengal State University, Barasat, India
- ii) Acted as an External Expert Member of Board of Examiners of PH.D. Viva-Voce Examinations:
  - (i) Sambalpur University, Orissa, India
  - (j) Gandhigram Rural Institute -Deemed University, Tamil Nadu , India.
  - (k) National Institute of Technology, Durgapur, India.
- iii) Acted as a PhD Thesis Examiner of the following Universities:
  - (a) Bundelkhand University, UP, India
  - (b) Sambalpur University, Orissa, India
  - (c) Gandhigram Rural Institute -Deemed University, Tamil Nadu , India.
  - (d) Banasthali University, Rajasthan, India:
  - (e) National Institute of Technology, Durgapur, India.
- iv) Invited as Resource Person in National Workshop on Mathematical Modelling through Computational Intelligence, Meenakshi College for Women, Chennai.
- v) Acted as a paper setter of GourBanga University, Maldah, India

##### Prof. I. Lahiri

- i) Acted as a PhD Thesis Examiner of the following Universities:
  - a) JadavpurUniversity
  - b) Burdwan University
  - c) University of North Bengal
  - d) Jammu University
  - e) Mysore University.
- ii) Acted as a paper setter of VisvaBharati.

##### Dr. S. Pal

- i) Acted as a PhD Thesis Examiner of Jadavpur University.
- ii) Acted as a Guest Teacher of
  - a) NetajiSubhas Open University.
  - b) Ramakrishna Mission Vivekananda Centenary College, Rahara, Kolkata.
- iii) Invited as resource person in
  - a) The Refresher Course in Mathematics. Academic Staff College, Pt. RavishankarShukla University, Raipur (C.G.). 10-12<sup>th</sup>February, 2013.
  - b) The Inspire Science camp. Columbia College of Pharmacy, Raipur, C.G. on 24<sup>th</sup>July 2014.
- iv) Acted as a Paper Setter/ Examiner of the followingUniversities:
  - a) Jadavpur University

- b) Calcutta University
- c) NetajiSubhas Open University
- d) North Bengal University.

Dr. D. De

Delivered short courses in

- a) Advanced Infrastructural school on combinatorics organized by Harish Chandra Research Institute, Allahabad during 28<sup>th</sup> April to 17<sup>th</sup> May, 2014.
- b) ATM Workshop on Topological Combinatorics organized by Harish Chandra Research Institute, during 6 to 11<sup>th</sup> October, 2014.

Dr. A. Biswas

- i) Acted as a PhD Thesis Examiner of
  - a) Anna University, Chennai, Tamil Nadu
  - b) Gandhigram Rural University, Tamil Nadu
- ii) Acted as a Guest Teacher of
  - a) Indian Institute of Information Technology, Kalyani
  - b) West Bengal State University, Barasat, West Bengal
  - c) GourBanga University, Maldah, West Bengal
- iii) Acted as a Paper Setter/ Examiner of the following Universities/Institutes/Colleges:
  - a) JIS College of Engineering, Kalyani, West Bengal
  - b) Indian Institute of Information Technology, Kalyani
  - c) NetajiShbhas Open University, Kolkata
  - d) West Bengal State University, Barasat, West Bengal
  - e) GourBanga University, Maldah, West Bengal

Dr. A. Sarkar

Acted as a Paper Setter/ Examiner of SidhoKanhoBirsha University, Purulia, West Bengal

Dr. S. Islam

Acted as a Paper Setter/ Examiner of the following Universities/Colleges:

- a) Visva-Bharati University.
- b) West Bengal University of Technology
- c) The University of Burdwan

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

In the field of Complex Analysis

Some basic problems like uniqueness of meromorphic functions sharing some small functions and its impact on four-value theorem has been investigated. The existence of new kind of unique range sets and the underlying polynomial backbone of the unique range sets were also studied. With the recently introduced notion in the uniqueness theory, known as weighted sharing of values, the uniqueness of  $f$  and its first derivative under weaker hypothesis was tried to investigate and also generalized the existing

results. The uniqueness concerning different types of non-linear differential polynomial specially those of the  $k$ -th derivative of a linear expression formed by a meromorphic functions when they share some values or small functions has been studied. The Brosch's problem and elucidated a number of unanswered related questions have been explored.

#### In the field of Mathematical Biology

The research work on Mathematical Biology was mainly devoted to present several mathematical models on the dynamics of marine plankton ecology, coral bleaching due to invasive predators, role of virus infection on marine plankton species as well as on bacterial population, nonlinear transmission of a stage structured eco-epidemiological models with prey refuge, nonlinear models on ratio-dependent eco-epidemiological problems.

#### In the field of Operations Research, Fuzzy Sets and Systems

Methodological developments of Soft- Computing Approaches, like Fuzzy Systems, Genetic Algorithms, Hybrid Intelligent Systems for Multicriteria Decision Analysis have been performed. The potential uses of the approaches to real-life optimization problems, like Higher Academic Planning, Agricultural Production Planning, Thermal Power Generation and Emission Control Management, Traffic Control in Metro Cities have also been made.

Concept of fuzziness in assessing morningness of people has been introduced which is a pioneering work in the field of morningness assessment. A collaborative research work has been performed for assessing morningness of people using fuzzy inference system with some European Universities and Institutions. Research work for assessing occupational risks in construction sites using fuzzy control has been done. Methodologies for solving different types of multiobjective stochastic programming problems in fuzzy environment have been developed which in turn enriched the field of decision making under uncertainty.

Geometric programming approaches for solving multiobjective economic order quantity model under have been developed.

#### In the field of Ramsey Theoretic Combinatorics

Some Ramsey theoretic results using Stone Cech compactification of discrete semigroups has been proved. It has been proved that when a dense sub semigroup of  $(\mathbb{R}, +)$  is partitioned into finitely many cells, there exists at least one cell which contains combination of arithmetic and geometric progressions. Some investigations on small sets i. e. sets with density zero which contains arithmetic progression of arbitrary length, as well as polynomial progression of arbitrary length has also been made.

#### In the field of Differential Geometry

Symmetry of different contact metric structures, mainly Sasakian structure, has been studied. A study on harmonic and biharmonic mappings on differentiable manifolds endowed with contact metric structures has been performed.

### **51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

Strengths:

(i) Expert Faculty Members, (ii) Bright Meritorious Students, (iii) Updated Course Curriculum, (iv) Academically rich Research Fellows

Weakness:

(i) Shortage of Staffs, (ii) Lack of Infrastructure, (iii) Limited Online Access

Opportunities:

(i) To enter into the domain of Research in Mathematics, (ii) Job Opportunities, (iii) Preparation for National/International Level Examinations

Challenges:



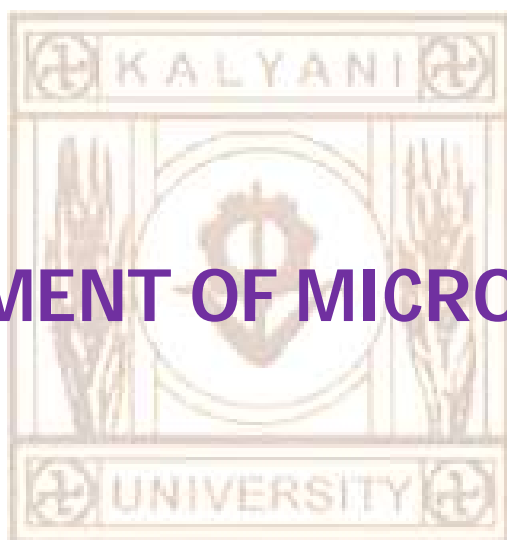
(i) To Promote Research in Science and Technology, (ii) Familiarize Students with modern updates of Mathematics, (iii) Enrichment of Course Curriculum, (iv) Inspire the Students for Social Activities

## 52. Future plans of the department.

- To promote research in new areas of Mathematics along with the areas in which our faculty members are already active.
- To encourage the faculty members to improve their teaching and research abilities through attending different workshops, seminars, symposia and conferences
- To encourage more collaborative work with the faculty members of other Universities and Institutions of our country and abroad
- To motivate faculty members for applying different research projects to different national and international funding agencies
- To organize micro symposia inviting one/two speakers mainly for the students of our Department
- To invite well known teachers and researchers as visiting fellows to give a series of lectures for our teachers and students
- To organize weekly lectures by the Research Scholars of our Department on their topics of research.



# DEPARTMENT OF MICROBIOLOGY



- 1 **Name of the Department :** Department of Microbiology
- 2 **Year of establishment :** 2001
- 3 **Is the Department part of a School/Faculty of the university?** Faculty of Science of the University
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.):** M.Sc. in Microbiology (P.G.) and Ph.D.
- 5 **Interdisciplinary programmes and departments involved :**  
As such Department has no Interdisciplinary Programme schedule, however, the Teachers are encouraged or involved in interdisciplinary research work with other Institutes or Departments of this University.
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc. :** Nil
- 7 **Details of programmes discontinued, if any, with reasons :** Nil
- 8 **Examination System :** Semester /Choice Based Credit System
- 9 **Participation of the department in the courses offered by other departments :** Involved in interdisciplinary research work
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate/Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	1
Professor	2	1	1
Associate Professors	3	1	1
Asst. Professors	0	0	0
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Samir Kumar Mukherjee	M.Sc., Ph.D.	Professor	Environmental Microbiology	17 years	5
Dr. Keka Sarkar	M.Sc., Ph.D.	Associate Professor	Nanobiotechnology	8 years	3
Dr. Ekramul Islam	M.Sc., M.Tech., Ph.D.	Assistant Professor	Environmental Microbiology and Biotechnology	3 years	0

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors :** Nil
13. **Percentage of classes taken by temporary faculty – programme-wise information :** 10%
14. **Programme-wise Student Teacher Ratio :** M.Sc. – 7 : 1; Ph.D. – 4 : 1

**15. Number of academic support staff (technical) and administrative staff : sanctioned, filled and actual**

Nature of post	Sanctioned/Allotted	Actual
Jr. Assistant	1	1
Lab. Assistant	1	1

**16. Research thrust areas as recognized by major funding agencies :**

- Toxic metal-microbe interactions
- Heavy metal bioremediation
- Plant growth promotion rhizobacteria
- Biological control of plant disease
- Nanotoxicology
- Bacterial cell division
- Development of bio-functional surfaces of nanocomposite: Biosensors
- Nanotoxicology and interaction of cells with nanostructures and Nanomaterials.
- Nanotechnology mediated drug delivery
- Environmental Genomics (Metagenomics)
- Molecular Microbial ecology and geomicrobiology of the polluted environment
- Perturbations of microbial communities and climate change
- Exploitation of microbial diversity in the sustainable bioenergy

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Name of the Investigator	Title of the project and duration	Grant Sanctioned	Funding Agency
Prof. Samir K Mukherjee	Study of Arsenic resistant rhizobacterial diversity responsible for Arsenic speciation in the paddy fields of Nadia district and identification of suitable bacterial strains for As bioremediation having Plant growth promoting activities Duration: <b>3 Years</b>	Rs. 39 lakhs	DBT, Govt. of India
Dr. Keka Sarkar	Methods for extraction and purification of environmental DNA from soil approaching magnetic nanoparticles: microbial diversity analysis and construction of metagenomic library Duration: <b>3 Years</b>	Rs. 11.518 lakhs	UGC, Govt. of India
Dr. Ekramul Islam	Study of microbial diversity in chromium contaminated soil through metagenomic and cultivation dependent approaches for the development of suitable hexavalent chromium bioremediation strategy. Duration: <b>2 Years</b>	Rs. 6 lakhs	UGC, Govt. of India

**18. Inter-institutional collaborative projects and associated grants received : Nil**

- National collaboration
- International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :**

DST-FIST, Govt. of West Bengal, received Rs. 7,00,000/- [Central programme under DST-PURSE, Govt. of India not included]

**20. Research facility / centre with :**

- state recognition
- national recognition
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies :**  
Nil

**22. Publications:**

- Number of papers published in peer reviewed journals (national/international) : 29
- Monographs : 0
- Chapters in Books : 6
- Edited Books : 0
- Books with ISBN with details of publishers : 0
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 32
- Citation Index – range / average :
- SNIP : 1.3
- SJR : 0.9
- Impact Factor (range) : 0.6 – 4.5
- h-index – range : 4 - 11

**23. Details of patents and income generated : Nil**

**24. Areas of consultancy and income generated : Nil**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad :**

Prof. Samir Kumar Mukherjee was invited to visit Graduate School of Bioagricultural Sciences and International Cooperation Center for Agricultural Education, Nagoya University, Nagoya, and NARO Kyushu Okinawa Agricultural Research Center (NARO/KARC), Kumamoto, during November, 2014.

**26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Prof. Samir Kumar Mukherjee is acting as a Member of the Editorial Board of Journal of Environment and Human.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) : Nil**

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities/ industry / institute : 100%

**29. Awards / recognitions received at the national and international level by**

- Faculty
- Doctoral / post doctoral fellows : 6
- Students :

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ International) with details of outstanding participants, if any.**

- Workshop on “Intellectual Property Right” at Department of Microbiology, University of Kalyani, West Bengal, 2012
- During 2014-15: Series One day Seminar talks by Prof. Jayashree Paul, Department of Environmental Sciences, JNU, Dr. S. K. Patra, Department of Biotechnology, NIT Rourkela and Dr. Sk T. Hossain, Department of Biochemistry and Molecular Biology, Miller School of Medicine, University of Miami, USA

**31. Code of ethics for research followed by the departments: Maintenance of schedule scientific and social ethics.****32. Student profile programme-wise: (Average of 4 years)**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG 2011-2012	165	6	10	100%	100%
PG 2012-2013	162	6	6	100%	100%
PG 2013-2014	120	5	10	100%	100%
PG 2014-2015	Centrally conducted	7	4	NA	NA
PG 2015-2016	Centrally conducted	4	8	NA	NA

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG 2011-2012	65%	29%	6%	Nil
PG 2012-2013	60%	34%	6%	Nil
PG 2013-2014	60%	34%	6%	Nil
PG 2014-2015	40%	60%	0%	Nil
PG 2015-2016	40%	60%	0%	Nil

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET: 7

GATE: 22

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	NA
PG to M.Phil.	NA
PG to Ph.D.	40%
Ph.D. to Post-Doctoral	50%
Employed	Nil
Campus selection	
Other than campus recruitment	
Entrepreneurs	45%

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	33%
from other universities within the State	66%
from universities from other States	0%
from universities outside the country	0%

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil****38. Present details of departmental infrastructural facilities with regard to**

- Library: Currently Library Facilities have been centralized.
- Internet facilities for staff and students : Available
- Total number of class rooms : Theoretical Classrooms – 2
- Class rooms with ICT facility : 1
- Students' laboratories : 1
- Research laboratories : 3

**39. List of doctoral, post-doctoral students and Research Associates**

- from the host institution/university : 9
- from other institutions/universities : 7

**40. Number of post graduate students getting financial assistance from the university. : 2****41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. NA****42. Does the department obtain feedback from**

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?  
Through open discussion among the faculties.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?  
Through open discussion.
- Alumni and employers on the programmes offered and how does the department utilize the feedback?  
Through open discussion.



**43. List the distinguished alumni of the department (maximum 10)**

Serial No.	Name	Year of Passing	Position held
1.	Dr. Ashwini Chauhan	2007 (Ph.D.)	Researcher, Pasteur Institute, Paris
2.	Dr. S. Guha Roy	2007 (Ph.D.)	Associate Professor, WB State University
3.	Dr. Amit Roy Chowdhury	2004	PDF, University of St. Lewis, USA
4.	Dr. Dipankar Bhanadari	2003	PDF, Dept of Biochemistry, Tübingen, Germany
5.	Dr. Gopi Ballav Sau	2005	QC, Faresenius Kabi Oncology
6.	Dr. Mousumi Ghosh	2003	PDF, Ontario, Canada
7.	Dr. Saheli Samanta	2003	PDF, University of Kansas Medical Center, USA
8.	Dr. Tofajjen Hossain	2013 (Ph.D.)	PDF, University of Miami, USA
9.	Dr. Shilpak Chatterjee	2005	PDF, Medical University of South Carolina, Charleston, USA
10.	Dr. Sudipta Bhattacharyya	2006	PDF, Colorado State University, USA

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Special tutorial and seminars are organized for the enrichment.

**45. List the teaching methods adopted by the faculty for different programmes.**

- Visual projection
- Supply of course materials
- Regular assessment
- Animated model projection

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? By taking feedback from the students****47. Highlight the participation of students and faculty in extension activities.**

Social awareness programmes, cultural programmes

**48. Give details of “beyond syllabus scholarly activities” of the department.**

Students are encouraged to deliver popular scientific lectures.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : Nil****50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

During the early part of the 20<sup>th</sup> Century, Microbiology developed somewhat independently of other biological disciplines. The pace of advancement of the discipline and its societal relevance enhanced impressively in the context of scope and relevance of the subject in the different fields of applied microbiology with the application of biotechnology and genetic engineering. However, the inter-disciplinary approach of the subject is imperative in the present scenario. The modern biological development is going on at a tremendous pace. Microbiology has taken a unique position in respect of basic and applied aspects of food and dairy products, environment, agriculture, various industries and medical and public health.

The courses offered in the Department would help the aspirant graduates in getting a broad based knowledge about theoretical and applied aspects of different disciplines of microbiology in general and its frontier areas in particular. It is aimed at offering high quality training and generating expertise in the frontier areas of microbial technology, and to provide appreciative atmosphere to the

bright young talents. The courses include *inter-alia*, collaborative efforts with different institutes, industries, clinical laboratories and other agencies. Hence, the post-graduate or Ph.D. courses may open multi-channel opportunity of employment and entrepreneurship. The Department has already shown its mark in the teaching and research in Microbiology. Academic catering of the students and infrastructural development of the Department has been taken care. The Department has received its own building during 2009 and has already developed its infrastructure with some sophisticated equipments like, fermentor, UV- vis spectrophotometer, PCR/RT PCR thermocycler, ELISA Reader, BOD chamber, cold centrifuge, Gel-documentation, Phase contrast microscope, DGG, Atomic Absorption Spectrometer etc. The Department has received research grants from UGC, DBT, DST and other sources for conducting research.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

Strength	Weakness	Opportunities	Challenges
Course itself	Insufficient teaching staffs	Industrial	Opening of placement scope
Research Training programme	Insufficient non-teaching staffs	Research	Industry-Research tie up
Industrial Training programme	Lack of proper instrumental facilities	Teaching	Revenue generation
Multidisciplinary approach	Building infrastructure	Entrepreneur development	Effective International Collaboration

**52. Future plans of the department.**

- 1) Filled up of teaching and non teaching posts.
- 2) To consider updating of syllabus as per Course-Credit system
- 3) Improvement of Laboratory infrastructure
- 4) Improvement of computer and internet facilities
- 5) To organize National/International level Symposium
- 6) Written students' feedback will be taken as per University guideline.
- 7) Publication of Journal in the field of Soil Microbiology

# DEPARTMENT OF MODERN LANGUAGE



1. **Name of the Department :** Department of Modern Language

2. **Year of establishment :** 1985

3. **Is the Department part of a School / Faculty of the University ?**

This Department is a part of the Faculty of Arts & Commerce of the University

4. **Names of the programmes offered :**

- i. One year PG Certificate course in Russian & Chinese Languages
- ii. One year PG Diploma course in Russian & Chinese Languages

7. **Details of programmes discontinued, if any, with reasons :** PG Certificate & Diploma Courses in Chinese Language are discontinued due to unavailability of Teachers.

8. **Examination system :** Semester

10. **Number of teaching posts sanctioned, filled and actual (Professor / Associate Professor/ Asst. Professor / others)**

	Sanctioned	Filled	Actual (including CAS & MPS )
Professor	Nil	Nil	Nil
Associate Professor	One	Nil	Nil
Asst. Professor	Two	One	One
Others			

11. **Faculty profile with name, qualification, Designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D/M.Phil. students guided for the last four years
Minakshi Sarkar	MA in Russian Language & Literature	Asst. Professor	Russian Language	21 Years (2 & 1/2 yrs. In Calcutta University & rest in Kalyani University)	Nil

14. **Programme –wise Student Teacher Ratio**

- i. PG Certificate course in Russian – 3: 1
- ii. PG Diploma course in Russian – 1: 1

15. **Number of Academic support staff (technical) and administrative staff:**

Sanctioned, filled and actual – Administrative Staff.

Sanctioned	filled	actual
1	Nil	Nil

32. **Student profile programme-wise**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Actual No.	
		Male	Female	Male	Female
PG Certificate course in Russian – 2015-2016	8	7	1	2	1
PG Diploma course in Russian - 2015-2016	1	1	0	1	0

**33. Diversity of Students**

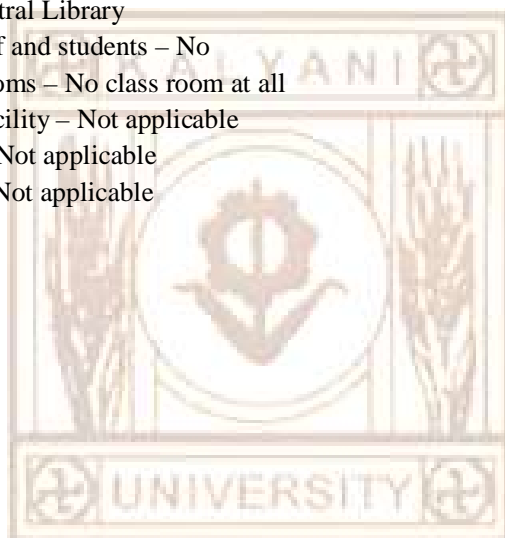
Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG Certificate course in Russian	100 %	Nil	Nil	Nil
PG Diploma course in Russian	100 %	Nil	Nil	Nil

**34. Diversity of Staff**

Percentage of Faculty who are Graduates	
of the same university	Nil
from other universities within the State	100 %
from universities of other States	Nil
from universities outside the Country	Nil

**35. Present details of departmental infrastructural facilities with regard to**

- Library – Shifted to Central Library
- Internet facilities for staff and students – No
- Total number of class rooms – No class room at all
- Class rooms with ICT facility – Not applicable
- Students' Laboratories - Not applicable
- Research Laboratories - Not applicable



The logo of Kalyani University is a square emblem. At the top, a banner contains the word 'KALYANI' in capital letters, flanked by two circular symbols. The center of the emblem features a stylized tree or plant. Below the tree, the word 'UNIVERSITY' is partially visible. The entire emblem is rendered in a light, faded color.

# DEPARTMENT OF MOLECULAR BIOLOGY & BIO TECHNOLOGY

- 1 **Name of the Department:** Department of Molecular Biology & Biotechnology
- 2 **Year of establishment:** 2003
- 3 **Is the Department part of a School/Faculty of the university?** Faculty of Science
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** M. Sc in Molecular Biology & Biotewchnology and Ph.D in Molecular Biology & Biotechnology
- 5 **Interdisciplinary programmes and departments involved:** Biochemistry & Biophysics, Microbiology, Physics, Chemistry, Botany, Zoology & Physiology
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc.** NA
- 7 **Details of programmes discontinued, if any, with reasons** NA
- 8 **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Semester/Choice Based Credit System (Newly introduced from 1<sup>st</sup> Semester 2014-15)
- 9 **Participation of the department in the courses offered by other departments** No
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS )
Professor	1	Nil	0
Associate Professor	2	1	1
Asst. Professor	3	3	3
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Tapas Kumar Bandyopadhyay	M. Sc. and Ph. D. in Botany	Associate Professor	Molecular Biology, Plant Cell Tissue & Organ Culture, Plant Biotechnology	Teaching -10 years Research -10 years	Ph. D. Students awarded 05 Pursuing Ph.D. 05
Dr. Utpal Basu	M.Sc and Ph.D in Biochemistry	Assistant Professor	Biomolecules, Metabolism, Translation and Recombinant DNA Technology	Teaching-08 years Post Doct. Research – 03 years	Pursuing Ph.D. 05

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Tanima Saha	M.Sc in Botany and Ph. D. in Life Science	Assistant Professor	Microbiology, Bio-processing and Fermentation	Teaching -03 years (guest faculty) -02 years (permanent) Post Doct. Research – 01 years	Nil
Dr. Swagata Ghosh	M.Sc in Botany And Ph.D in Molecular Medicine, JNU, New Delhi.	Assistant Professor	Vacuolar biogenesis, Stress adaptation and Metabolic specialization in the model fungal pathogen <i>Candida albicans</i> and Prokaryotic gene regulation using <i>Vibrio cholerae</i> as a model organism.	Teaching - 2 months (permanent) Post Doct. Research – 05 years	Nil

## 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

### List of Temporary faculty members of M. Sc 1<sup>st</sup> Semester

Sl. No.	Name of the temporary faculty	Affiliation/ Designation
1.	Dr. Utpal Ghosh	Assistant Professor, Department of Biophysics & Biochem, KU
2.	Dr. Tapas Kr. Majumder	Assistant Professor, Dept. of Chemistry, KU.
3.	4. Dr. Subhratanu Bhattacharya	Assistant Professor, Dept. of Chemistry, KU.
4.	Prof. T. K. Das	Professor, Department of Biophysics & Biochem, KU
5.	Prof. J. Mukherjee	Retired Professor, Dept. of Chemistry, KU.
6.	Mr. Prithwiraj Kirtania	NET Qualified/ SRF/ Bose Institute, Kolkata

### List of Temporary faculty members of M. Sc 2<sup>nd</sup> Semester

Sl. No.	Name of the resource persons	Affiliation/ Designation
1.	Dr. Arghya Adhikari	INSPIRE Faculty/ Center for Research in Nanoscience and Nanotechnology Acharya Prafulla Chandra Roy Siksha Prangan, University of Calcutta, JD-2, Sector-III, Saltlake City, Kolkata-700098
2.	Mr. Samir Jana	INSPIRE Fellow/ NET qualified/ SRF, Dept. of Zoology, University of Calcutta.
3.	Dr. Arindam Bhattacharya	Associate Professor, Dept. of Zoology, University of Calcutta
4.	Dr. Riddhi Majumder	Assistant Professor, Department of Microbiology, St Xavier's College, Kolkata.
5.	Prof. P. D. Ghosh	Professor, Dept. of Botany, University of Kalyani
6.	Mr. Prithwiraj Kirtania	NET Qualified/ SRF/ Bose Institute, Kolkata
7.	Dr. Pradip Kumar Sahu	Department of Agricultural Statistics, Bhidan Chandra Krishi Viswavidyalaya, Mohanpur.



**List of Temporary faculty members of M. Sc<sup>3rd</sup> Semester**

Sl. No.	Name of the resource persons	Affiliation/ Designation
1.	Dr.Arindam Bhattacharyya	Associate Professor, Dept. of Zoology, University of Calcutta
2.	Mr. Samir Jana	INSPIRE Fellow/ NET qualified/ SRF, Dept. of Zoology, University of Calcutta.
3.	Dr. S. K. Mukherjee	Professor, Dept. of Microbiology, KU.
4.	Dr.Priyadarshi Basu	Assistant Professor, NIBMG, Kalyani
5.	Dr.Suprya Banerjee	Assistant Professor, Kalyani Govt. Engineering College, Kalyani
6.	Dr.Riddhi Majumder	Assistant Professor, Department of Microbiology, St Xavier's College, Kolkata.
7.	Prof. P. D. Ghosh	Professor, Dept. of Botany, University of Kalyani
8.	Dr.Angshuman Bagchi	Assistant Professor, Dept. of BC & BP, KU
9.	Dr.Suman Kalyan Payne	Research Associate, NIBMG, Kalyani
10.	Dr.Abhishek Mukherjee	Research Associate Drug Development Diagnostics and Biotechnology Division Indian Institute of Chemical Biology (CSIR) 4, Raja S C Mullick Road, Jadavpur Kolkata - 700032
11.	Prof. T. D. Basu	Professor, Dept. of BC & BP, KU
12.	Dr.Jayanta Biswas	Dept. of Ecological Engineering, KU
13.	Prof. Gour Gopal Maity	Retd. Professor, Dept. of Botany, University of Kalyani

**List of Temporary faculty members of M. Sc<sup>4th</sup> Semester**

Sl. No.	Name of the resource persons	Affiliation/ Designation
1.	Prof. Goutam Saha	Professor/ Department of Information Technology, NEHU, Shillong.
2.	Prof. K. R. Samaddar	Retd. Professor, Dept. Of Botany, KU.
3.	Dr. S. K. Mukherjee	Professor, Dept. of Microbiology, KU.
4.	Prof. S. K. Bhattacharya	Retd. Deputy Milk Commissioner, Govt. of West Bengal.
5.	Dr. R. D. Banerjee	Retd. Reader, Dept. of Botany, KU.
6.	Prof. Sagar Sanyal	Dept. of Physiology, West Bengal University of Animal Husbandry and Fishery Sciences, Belgachia, Kolkata.
7.	Prof. Dilip Bhattacharya	Retd. Professor, Dept. of Zoology, KU.
8.	Prof. B. B. Jana	Retd. Professor, Dept. of Zoology, KU.
9.	Prof. S. C. Santra	Professor, Dept. of Environmental Sciences, KU.
10.	Dr.Mahua Hom Chowdhury	Patent Officer, Patent Information Centre, DST, Govt. of West Bengal, Bikash Bhavan, Kolkata.

**13. Percentage of classes taken by temporary faculty – programme-wise information**

- M.Sc 1<sup>st</sup> Semester – 32%
- M.Sc 2<sup>nd</sup> Semester – 23%
- M.Sc 3<sup>rd</sup> Semester – 61%
- M.Sc 4<sup>th</sup> Semester – 75%

**14. Programme-wise Student Teacher Ratio**

I. M.Sc in Molecular Biology & Biotechnology

a. M.Sc. 1<sup>st</sup> Semester: 3 : 1 (22:9)

b. M. Sc 2<sup>nd</sup> Semester: 3: 1 (22: 10)

c.M.Sc 3<sup>rd</sup> Semester: 2: 1 (22: 13)

d. M.Sc 4<sup>th</sup> Semester: 2: 1(22:13)

II. Ph. D. in Molecular Biology & Biotechnology 9 : 4

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Sl. No.	Category	No. of Sanctioned post	Filled & Actual
1.	Junior Assistant (Permanent)	01	1 filled up
2.	Technical Assistant Grade II (Permanent)	01	1 filled up
3.	Technical Assistant (contingent staff)	01	1 vacant
4.	Junior Store Keeper (Permanent)	01	1 filled up
5.	Office Attendant Grade I (Permanent)	01	1 filled up
6.	Laboratory Attendant (Contingent staff)	02	2 filled up
7.	Sweeper (Contingent staff)	01	1 filled up

**16. Research thrust areas as recognized by major funding agencies: None**

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

**Ongoing projects:**

**Dr. T. K. Bandyopadhyay**

**Title:** Development of vernalization insensitive mutants of *Limonium sinensis* through in vitro induced mutagenesis and molecular studies of mutants.

Funding agency: DAE/BRNS

Total sanctioned amount: Rs.24, 28,000/-

Sanction No. 2013/35/42/BRNS/1385; Dt.12.08.13

**18. Inter-institutional collaborative projects and associated grants received : NA**

a) National collaboration

b) International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

WBDST-FIST (1<sup>st</sup> Phase)

Memo No. 1213(Sanc.) /ST/P/S&T/Misc-9/14 dated 26.03.2015

Amount Rs. 6,52,300

**20. Research facility / centre with NA**

state recognition

national recognition

international recognition

**Manual for Self-study Universities**

**21. Special research laboratories sponsored by / created by industry or corporate bodies**

NA

**22. Publications:****Dr.Tapas Kr. Bandyopadhyay**

- \* Number of papers published in peer reviewed journals (national / international) **25**
- \* Monographs **0**
- \* Chapters in Books **0**
- \* Edited Books
- \* Books with ISBN with details of publishers **0**
- \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **24**
- \* Citation Index – range / average **Range- 01 – 115 Average- 11.33**
- \* SNIP **Average-0.855**
- \* SJR **Average – 0.578**
- \* Impact Factor – range / average **Range – 0.29 – 3.942/ Average- 1.506**
- \* h-index **9.0**

**Dr.UtpalBasu**

- \* Number of papers published in peer reviewed journals (national / international) **08**
- \* Monographs **00**
- \* Chapters in Book
- \* Edited Books
- \* Books with ISBN with details of publishers
- \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **-08**
- \* Citation Index – range / average
- \* SNIP **Average 1.04**
- \* SJR **Average 1.422**
- \* Impact Factor – range / average **Average 3.59**
- \* h-index **05**

**Dr.TanimaSaha**

- \* Number of papers published in peer reviewed journals (national / international) **03**
- \* Monographs **00**
- \* Chapters in Books **00**
- \* Edited Books **00**
- \* Books with ISBN with details of publishers **00**
- \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **03**
- \* Citation Index – range / average \*SNIP **Average 1.197**
- \* SJR **Average 0.995**
- \* Impact Factor – range /average **2.484**
- \* h-index **01**

**Dr.Swagata Ghosh**

- \* Number of papers published in peer reviewed journals (national / international) **05**
- \* Monographs **Nil**

Chapters in Books

Edited Books **Nil**

- \* Books with ISBN with details of publishers
- \* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **05**
- \* Citation Index – range **35/**
- \* Average SNIP **0.9135**
- \* SJR **1.59**
- \* Average Impact Factor – range **2.5 to 5**
- \* h-index **2**

### 23. Details of patents and income generated

Patent 1: Moorwood C, **Basu U**, Patel G, Lozynska O, Khurana TS. Methods for enhancing utrophin production via inhibition of microRNA. United States Patent Number 8916532.

**Patent 1:** Recombinant microorganisms and uses thereof. **US Patent US 13/451,481**. Granted. Publication number: US8734814 B2.A. Datta, **S Ghosh**, S. Ghosh, K. H Rao, M. Kamthan.

**Patent 2:** Mutant microorganisms and uses thereof. **Indian Patent 622/DEL/2012** A. Datta, **S. Ghosh**, K. H. Rao.

### 24. Areas of consultancy and income generated NA

### 25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad NA

### 26. Faculty serving in

National committees b) International committees c) Editorial Boards d) any other (please specify)

**Dr. U. Basu, Member, Advisory Committee, PRISM, DSIR.**

### 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). NO

### 28. Student projects

- a. percentage of students who have done in-house projects including inter-departmental projects  
**No**
- b. percentage of students doing projects in collaboration with other universities/ industry / institute  
**100%**

### 29. Awards / recognitions received at the national and international level by: No

- a. Faculty
- b. Doctoral / post doctoral fellows
- c. Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national international) with details of outstanding participants, if any.**

Sl. No.	Title	Source of Funding	Name of the Speaker	Date
1.	A Seminar on GM Crops & Food Security	West Bengal State Council of Science & Technology	<b>98.</b> Dr. Debal Deb Chairman Centre for Interdisciplinary Studies, Kolkata-123. Dr. Bijan Adhikari Scientist, Chisurah Rice Research Station, Chisurah, W.B.  Prof K. R. Samaddar Former Professor, Department of Botany, KU.  Prof. G. Paul, Dean, Faculty of Science, KU	6 <sup>th</sup> Feb. 2014
2.	Science Writing Workshop	Departmental Contingency	Dr. Soumitra Banerjee Commonwealth Scientific and Industrial Research Organisation (CSIRO) Australia	24 <sup>th</sup> Feb. 2014
3.	Renature Talks – A Youth Science Seminar	UGC Unassigned Grant	Prof. R. L. Hangloo Vice Chancellor, University of Kalyani  Prof K. R. Samaddar Former Professor, Department of Botany, KU.  Dr. S. K. Paine, Department of Human Genetics, National Institute of Biomedical Genomics, Kolkata  Prithwiraj Kirtania, Dept. of Microbiology, Bose Institute, Kolkata, Poulomi Biswas Dept. of Biotechnology, IIT, Kharagpur – 721302  Dr. Subhra Pradhan, IICB, Jadavpur, Kolkata	26 <sup>th</sup> Feb. 2014

**31. Code of ethics for research followed by the departments**

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2015-16	98	04	09	Continue	Continue
2014-16	390	08	10	Continue	Continue
2013-15	158	06	10	100	100
2012-14	155	14	08	92.85	100
2011-13	152	10	11	90	100

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
2015 - 16	69.23	30.76	7.69	Nil
2014-16	66.66	33.33	Nil	Nil
2013-15	62.5	25.00	12.5	Nil
2012-14	45.46	50.00	4.54	Nil
2011-13	28.57	71.42	Nil	Nil

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Examination Passed	No. of Students
NET	22
GATE	35
SET	02
TIFR	02
Defence Services examination	01
GRE/Toefl	01
BCIL	08

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	Nil
PG to Ph.D.	46%
Ph.D. to Post-Doctoral	100%
Employed	
Campus selection	
Other than campus recruitment	25%
Entrepreneurs	Nil

**36. Diversity of staff**

Percentage of faculty who are graduates	
of the same university	25%
from other universities within the State	50%
from universities from other States	25%
From universities from other country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Nil

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library
- b) Internet facilities for staff and students Yes
- c) Total number of class rooms 02
- h) Class rooms with ICT facility 02
- i) Students' laboratories 01
- j) Research laboratories 01

**39. List of doctoral, post-doctoral students and Research Associates****Doctoral Students****a) From the host institution/university**

Trinath Ghosh; Ujjal Ghosh; Shankhamala Bose; Gargi Ghosh; Saptarshi Konar; Joydeep Karmakar; Rinku Debnath; Indrani Singha

**b) from other institutions/universities**

Md. KabiulAkhter; Debashis Malik; PraveenMayurii; DebaratiChakraborty

**Research Associates****a) from other university**

Dr. Anirban Roy

**40. Number of post graduate students getting financial assistance from the university. Data not Available to the Department****41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. NA****42. Does the department obtain feedback from**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? Yes
- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes
- iii. alumni and employers on the programmes offered and how does the department utilize the feedback? Yes

The course and curriculum has been designed and continually updated in consultation with the experienced academicians, research scientists and industry people through the interactive workshops. The assessment of the syllabus was made from the feed- back of the passed out students, as they feel fit for the competition in the global market

**43. List the distinguished alumni of the department (maximum 10)**

SL. No.	Name	Designation
1.	Sraboni Majumder	Post-doctoral Fellow at Colombia University USA
2.	Paromita Chakraborty	Post-doctoral Fellow at Lund University, Sweden
3.	Arghya Adhikari	Assistant professor(DST Inspire Fellow) , University of Calcutta, India
4.	Ambarnil Ghosh	Laboratory of Structural Biology, Samsung Biomedical Research Institute Sungkyunkwan University Suwon 440-746, South Korea
5.	Santanu Paul	Post- Doctoral Fellow, University of Kansas, USA
6.	Sourav Bhattacharya	Post- Doctoral Fellow, Bose Institute, India
7.	SumanKalyan Paine	Research Scientist B, ICMR Dibrugarh, India
8.	Anandamoy Dam	Post-Doctoral Fellow, ARO, Volcani Center, Institute of Plant Sciences, Bet Dagan, Israel
9.	Sourav Sanyal	<b>Reliance Life Sciences,</b> Dhirubhai Ambani Life Sciences Center, R-282, TTC Industrial Area of MIDC, Thane-Belapur Road, Rabale, Navi Mumbai 400 701
10.	Roshni Ghosh	patent liaison Officer Regeneron Pharmaceuticals, USA

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- The students are encouraged to participate in the different seminars, workshops and distinguished lecture series conducted by the Department and other Life Science Departments and University.
- The students are participated in the workshops, summer training conducted by different Institutes.
- The research students are also engaged for participation on on-line seminar.
- Different techniques are taught from the online data using U-Tube.
- Special lectures are arranged by the scientists of different institutes and Industries.

**45. List the teaching methods adopted by the faculty for different programmes.**

LCD, Overhead projection, and use of internet in the teaching of Computer Application and Bioinformatics are the modern teaching aids used in class room instruction.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

From the student's feedback at each semester ensure that programme objectives are constantly met. Moreover the performance of the students in all India basis examinations (NET/GATE/SET) and their transformation in higher studies i.e. doctoral and post- doctoral courses are constantly judged.



**47. Highlight the participation of students and faculty in extension activities.****48. Give details of “beyond syllabus scholarly activities” of the department.**

1. Occasionally several renowned scientists are invited for informal discussions with the students.
2. Organise training workshop for students and research scholars.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The Department has contributed the following applied and basic knowledge generated after establishment of the Department

- i. The application of bio-wastes for the large scale and economical production of an industrial enzyme Cellobiose dehydrogenase. This expands the possibilities of utilization of these cheap agro-residues reducing environmental pollution through their incineration.
- ii. An inexpensive and rapid RNA isolation method has been developed for biological samples.
- iii. The direct and indirect somatic embryogenesis protocol for *Limonium sinensis*, *Murrayakoenigii*, *Anthurium andreanum* developed in the laboratory has been widened the commercial application of micropropagation.
- iv. The molecular marker techniques (RAPD, ISSR, AFLP, SSR) has been standardized for somaclonal variation, genetic diversity, sex linked character analysis for *Limonium*, *Murrayakoenigii*, *Cajanus cajan*, *Cymbopogon*, *Cucumis sativus*, *Tricosanthes dioica* etc.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.****Strengths**

- i. Admission of highly motivated students from different branches of life science.
- ii. Multidisciplinary nature of the courses
- iii. Homely atmosphere of the department supports teaching learning process.
- iv. Well-equipped laboratory for post-graduate courses.
- v. Course and credit system

**Weakness**

- i. Severe shortage of faculty members.
- ii. Limited financial assistance for coordination of the courses.
- iii. Dependence on temporary teachers
- iv. Lack of modern instrumentation facilities like FACs, Sequencer, MALDI ToF etc., confocal microscope
- v. Lack of Computer and Bioinformatics Laboratory

**Opportunities**

- i. Establishment of modern laboratories through assistance under DST-FIST and UGC-SAP programme.
- ii. Establishment of Placement cell to attract the students.
- iii. International collaboration with other Institute

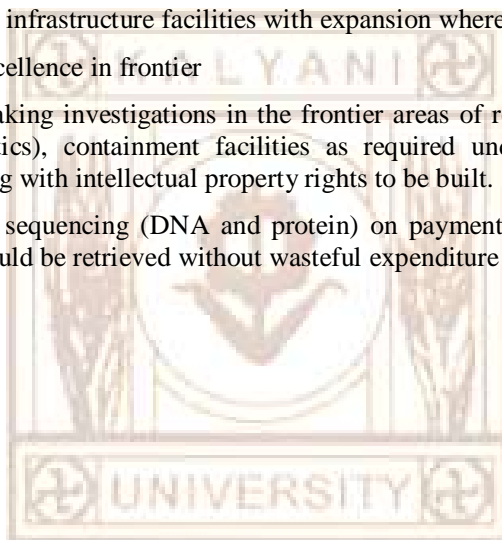
- iv. Societal development through generated knowledge.
- v. Strengthening the "knowledge triangle", linking education, research, and innovation.

**Challenges**

- i. Recruitment of vacant posts
- ii. Motivation of students to participate in Ph. D. and Post-Doctoral programme.
- iii. Improvement of infrastructural facilities,
- iv. Attraction of meritorious students
- v. Improvement of teaching quality

**52. Future plans of the department.**

- 1. Introduction of specialized courses such as a) Metagenomics b) Clinical genetics & c) Advanced virology with development of required facilities including BSL III bio-safety cabinet, ultracentrifuge etc.
- 2. Biotechnology parks, repositories, hardening units, genome sequencing facilities, new centres of excellence as per the need to be created.
- 3. Strengthening of existing infrastructure facilities with expansion wherever necessary.
- 4. Creation of centres of excellence in frontier
- 5. Infrastructure for undertaking investigations in the frontier areas of research (Functional genomics, Proteomics, Bioinformatics), containment facilities as required under biosafety regulations and exclusive units for dealing with intellectual property rights to be built.
- 6. Setting up facilities for sequencing (DNA and protein) on payment basis so that this routine yet necessary information could be retrieved without wasteful expenditure and resource.



# DEPARTMENT OF PHILOSOPHY



1. **Name of the Department:** Philosophy
2. **Year of establishment:** 2010
3. **Is the Department part of a School/ Faculty of the University :** Faculty of the University
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., D.Sc., D.Lit. etc.)** PG
5. **Interdisciplinary programmes and departments involved:** No
6. **Courses in collaboration with other universities, industries, foreign institutions etc.:** No
7. **Details of programmes discontinued , if any, with reasons:** N.A
8. **Examination System : Annual/Semester/Trimester/Choice Based Credit System :** Choice Based Credit System
9. **Participation of the department in the course offered by other departments :** N.A
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/ Asst. Professors/ others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	NA	NA	NA
Associate Professors	01	NA	NA
Asst. Professors	02	01	01
Others	NA	NA	NA

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. Kuheli Biswas	M.A.,B.Ed.M.Phil.Ph.D	Assistant Professor, Head of the Department	Indian Philosophy, Logic	3 years 6 month	NA

12. **List of senior Visiting Fellows, adjunct, emeritus professors :** NA

Session	Semester	Name of the Guest Teacher
2014-15	1st & 3rd	<ol style="list-style-type: none"> <li>1. Dr. Kuheli Biswas (Asth. Prof. &amp; H.O.D.)</li> <li>2. Prof. Mandira Mukhopadhyay</li> <li>3. Prof. Mrinal Kanti Chakrabarti</li> <li>4. Prof. Nandita Basu</li> <li>5. Prof. Sabari Sen</li> <li>6. Prof. Mriganka Sankar Poddar</li> <li>7. Prof. Sikha Ghosal</li> <li>8. Prof. Jayeeta Mukherjee</li> <li>9. Prof. Anindya Bandyopadhyay</li> </ol>

**13. Percentage of classes taken by temporary faculty- programme-wise information :****14. Programme-wise Student Teacher Ratio :**

Session 2015-16 (1st & 3rd Semester) /Ratio of Teacher's & Student: 1:8

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : 02**

Supporting staff of the department

Sl. No.	Name	Designation
1.	Sri Kabul Pramanik (M) 9932885293	Senior Assistant
2.	Sri Kankan Biswas (M: 9432449414)	One attendant (Daily wage Contingent Staff)

**\*\*They are supporting both the Dept. of Sanskrit & Philosophy**

**16. Research thrust areas as recognized by major funding agencies : NA****17. Number of the faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grant received project-wise : NA****18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration NA b) International collaboration NA

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DEP; DBT, ICSSR, AICTE, etc; total grants received.****20. Research facility / centre with NA**

- o state recognition
- o national recognition
- o international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies NA****22. Publications:**

- Number of papers published in peer reviewed journals (national / international )
- Monographs
- Chapters in Books
- Edited Books
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average
- SNIP
- SJR
- Impact Factor - range / average
- h-index

**23. Details of patents and income generated NA****24. Areas of consultancy and income generated NA****25. Faculty selected nationality / internationally to visit other laborites / institutions / industries in India and abroad NA**

**26. Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify) **NA**

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).****28. Students projects NA**

- Percentage of students who have done in-house projects including inter-departmental projects
- Percentage of students doing projects in collaboration with other universities / industry / institute

**29. Awards / recognition received at the national and international level by NA**

- Faculty
- Doctoral / post doctoral fellows
- Students

**30. Seminar / Conference / Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.****31. Code of ethics for research followed by the departments****32. Students profile programme-wise: from 2010**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MA	unknown	15	16	100	100

**33. Diversity of Students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MA in Philosophy	60%	39%	1%	--

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other comparative examinations? Give details category-wise. NET - 01****35. Students progression**

Students progression	Percentage against enrolled
UG to PG	Unknown
PG to M.Phil.	NA
PG to Ph.D.	NA
Ph.D. to Post-Doctoral	NA
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> </ul>	NA

Students progression	Percentage against enrolled
• Other than campus recruitment	
Entrepreneurs	NA

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	
from other universities within the State	
from universities from other States from	
universities outside the country	

### 37. Number of faculty who were awarded M.Phil, Ph.D., D.Sc., and D.Lit. during the assessment period. NA

### 38. . Present details of departmental infrastructural facilities with regard to

- a) Library NA
- b) Internet facilities for staff and students only staff
- c) Total number of class rooms 03
- d) Class rooms with ICT facility NA
- e) Students' laborites NA
- f) Research laboratories NA

### 39. List of doctoral, post-doctoral students and Research Associates NA

- a) from the host institution/university
- b) from other institutions/universities

### 40. Number of post graduate students getting financial assistance from the university. No

### 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

### 42. Does the department obtain feedback from

- a. faculty on curriculum as well as teaching-learning-evaluation? If, yes how does the department utilize the feedback? yes
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? No
- c. alumni and employers on the programmes offered and how does the department utilize the feedback? No

### 43. List the distinguished alumni of the department (maximum 10) No

### 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- i) Special lecture of yours on "Radhakrishnan: His life & Work" by Professor Gopal Khan, Retd. Professof, Burdwan University, Burdwan, W.B & Professor Sanat Kar, Retd. Professof, Beldanga College, Murshidabad, W.B on 05/09/2014 from 1:00 PM.

- ii) Special lecture on Two books “*Tractatus and Philosophical Investigation* (selection portion)” written by Wittgenstein by **Professor Priyanbada Sarkar, Calcutta University, W.B**
- iii) Special lecture on “**The Philosophy of Aesthetic**” by Professor Gopal Chandra Khan, Retd. Professof, Burdwan University, Burdwan, W.B
- iv) **Invited Lecture on ‘Traditional Legal Interpretation vs. Ancient Indian Society (Smṛtimīmāṃsā)’** by Dr. B. K. Swain, Professor, Jagannath Sanskrit University, Shri Vihar, Puri, Odhisha on 14/05/2014 (organized jointly by the department of Sanskrit & Philosophy).
- v) Symposium on the sesquicentennial birth anniversary of Swami Vivekananda a symposium on “Swami Vivekananda and his thoughts : a fresh appraisal” was organized by the newly established P.G. Departments of Philosophy & Sanskrit under the Kalyani University , Nadia, on the 25<sup>th</sup> day of March, 2013.
- vi) National Seminar on “Rediscovering acharya Brojendra Nath Seal in the New Millennium”, October 07-09, 2013, organized by Philosophy, Mathematics and Political Science.
- iv) One Day International Seminar on “Logic, Philosophy of Mathemetics and Philosophy of Language” on 23<sup>rd</sup> December, 2015 funded by ICPR, New Delhi, organized by Department of Philosophy in collaboration with Department of Sanskrit.

**45. List the teaching methods adopted by the faculty for different programmes.**

The department generally follows two methods i.e.

- a) Lecture
- b) Discussion with Students

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are mentioned?**

Continuation interaction and feedbacks

**47. Highlight the participation of students and faculty in extension activities.**

Several students have participated in NSS

**48. Give details of “beyond syllabus scholarly activities” of the department.**

Departmental students are always kept engaged themselves with various cultural activities. They arrange various cultural programmes to celebrate Teacher’s Day, *Navin-varan*, Sanskrit Day, World Philosophy Day etc.

**49. State whether the programme / department is accredited / graded by other agencies? If yes, give details. NA**

**50. Briefly highlight the contribution of the department in generating new knowledge, basic or applied.**

At present the Department is laying special focus on *Logic*, Analytic Philosophy, Indian Philosophy.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

- a) Efficient Non-Teaching and Administrative staffs
- b) Increasing Students’ demand
- c) University sanctioned Rs. 1,00,000/- to purchase the books & journals for the newly functional department. The department utilized the entire fund for this purpose.
- d) Department has one casual or substantive office and one administrative staffs. Administrative & Official staffs allotted for the department of Philosophy help efficiently to run the Sanskrit Department properly.



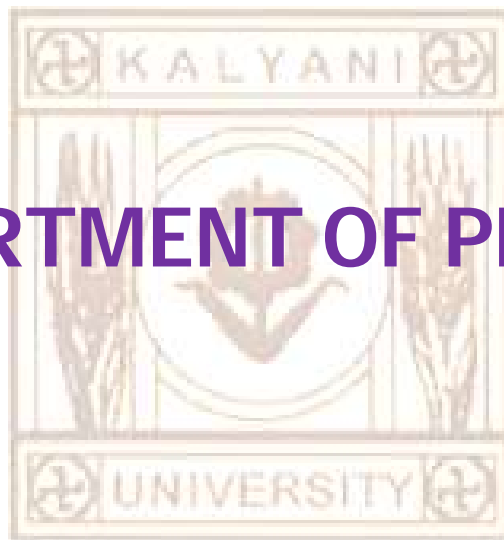
- e) Department does not have any computer for the academic faculty and for the students' use.
- f) Pass-out students of the department continuously asking for opening the M. Phil. and Ph.D. programme, but department could not able to do so due to insufficient teaching & academic staffs.
- g) Department does not have sufficient room for any extra classes and for any special papers or beyond syllabus activity.

## 52. Future plans of the department.

Subject to filling up the teaching posts and installation of Departmental office, departmental library, and proper accommodation for the faculty members, this department takes up for future projection, the introduction of M.Phil., Ph.D. programme, Publication of departmental journal annually, holding for state & National Level seminar every year and to invite at least two visiting professor per year for enriching the students as well as the faculties.



# DEPARTMENT OF PHYSICS



1. **Name of the Department:** Physics
2. **Year of establishment:** 1960
3. **Is the Department part of a School/Faculty of the university?** Yes, Science.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.) :** PG and Ph.D.
5. **Interdisciplinary programmes and departments involved:** None
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NA
7. **Details of programmes discontinued, if any, with reasons:** NA

Name	Qualification	Designation	Specialization	No. of Years of Experience (In Kalyani University)	No. of Ph.D./ M.Phil. students guided for the last 4 years
1. C. Neogy	M.Sc., Ph.D.	Professor	Condensed Matter	38	2
2. A. B. Bhattacharya	M.Sc., Ph.D.	Professor	Atmospheric Science	25	10
3. A. Sinha	M.Sc., Ph.D.	Professor	Semiconductors	25	Nil
4. B. Modak	M.Sc., Ph.D.	Professor	Cosmology & Gravitation	25	2
5. A. Chakrabarti	M.Sc., Ph.D.	Professor	Condensed Matter	19	Nil
6. N. K. Ghosh	M.Sc., Ph.D.	Professor	Condensed Matter	11	2
7. Y. M. Jana	M.Sc., Ph.D.	Associate Professor	Materials Science	9	1
8. T. Pal Majumder	M.Sc., Ph.D.	Associate Professor	Condensed Matter & Materials Sc.	11	2
9. S. Bhattacharya	M.Sc., Ph.D.	Asst. Professor	Condensed Matter & Materials Sc	9	Nil
10. A. Karmakar	M.Sc., Ph.D.	Asst. Professor	Condensed Matter & Materials Sc	4	Nil
11. J. P. Saha	M.Sc., Ph.D	Asst. Professor	Particle Physics	5	Nil

#### 8. Examination System: Annual/Semester/Trimester/Choice Based Credit System

Semester Syetem.

#### 9. Participation of the department in the courses offered by other departments :

Biotechnology

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	0	6
Associate Professor	5	0	2
Asst. Professors	12	5	
others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NA**

**13. Percentage of classes taken by temporary faculty – programme-wise information : NA**

**14. Programme-wise Student Teacher Ratio : 90:13**

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

**Academic Support Staff (technical):** Sanctioned-3, Filled-2, Actual-2

**Administrative Staff:** Sanctioned-5, Filled-3

**16. Research thrust areas as recognized by major funding agencies :**

(i) Condensed Matter Physics & Materials Science, recognized by DST, CSIR, UGC.

(ii) Atmospheric Science, recognized by UGC

Name of the Faculty member	Funding Agency	Amount Sanctioned (Rs.)	Status
A.B. Bhattacharya	CSIR, UGC (2 Projects)	20,000,00	Completed in 2013
T. P. Majumder	DST	15,35,000	Completed in 2013
S. Bhattacharya	DST	19,00,000	Completed in 2013
	DST	39,000,00	Ongoing
	CSIR	14,000,00	Ongoing
S. Pal	DST	17,000,00	Completed in 2014
Y.M. Jana	UGC	9,52,000	Ongoing
A. Karmakar	UGC	6,00,000	Ongoing

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

**18. Inter-institutional collaborative projects and associated grants received : NA**

a) National collaboration b) International collaboration: Collaboration with University of Warwick, UK. Uppsala University, Sweden

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : DST-FIST grant of Rs.2.69 Crores sanctioned in 2012 for a period of 5 years.**

**20. Research facility / centre with**

- state recognition
- national recognition : Materials Science Laboratory
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies : NA****22. Publications:**

\* Number of papers published in peer reviewed journals (national / international) : 175 in 4 years.

\* Monographs: 6

\* Chapters in Books \* Edited Books

\* Books with ISBN with details of publishers:

- Nuclear Physics by Y. M. Jana, Narosa, New Delhi
- Planet Jupiter and its Galilean Satellites – A. B. Bhattacharya and B. Raha, Lap Lambert, Germany, ISBN No.:978-3-659-61060-8

\* Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 175 (approximate)

\* Citation Index – range / average \* SNIP

\* SJR

\* Impact Factor – range / average

Range: 1 - 8

\* h-index : Range 2 - 16

**23. Details of patents and income generated: NA****24. Areas of consultancy and income generated: NA****25. Faculty selected nationally / internationally to visit other laboratories / institutions / Industries in India and abroad**

Prof. Arunava Chakrabarti – Guest Scientist at International Centre for Theoretical Physics (ICTP), Trieste, Italy in October-November 2013.

**26. Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify):

- Dr. T. Pal Majumder, Prof. A. B. Bhattacharya – Editorial Board of two international journals.
- Prof. Arunava Chakrabarti – Referee of Physical Review Letters, Physical Review B, E and A, IOP (UK) Published journals and several other international journals.

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).: Yet to Open****28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects : 100%
- percentage of students doing projects in collaboration with other universities / industry / institute : NA

**29. Awards / recognitions received at the national and international level by**

- Faculty: Prof. Arunava Chakrabarti, Guest Scientist ICTP, 2013.
- Doctoral / post doctoral fellows :
- Biplab Pal, DST INSPIRE Fellow got the best student presentation award in international conference in Colombo in 2014. □
- Biplab Pal – selected by CEFIPRA for the international workshop in France in 2014. □
- Biplab Pal became the first Newton-Bhabha fellow in Kalyani University, offered by DST-British Council and spent three months' in the University of Warwick, UK in 2015. □
- Mr. Joy Sankar Roy, University Research Scholar presented paper in the international conference in Colombo in 2015. □
- Mr. Swarup Biswas, University Research Scholar, presented paper International Conference on Nanoscience and Nanotechnology, Colombo, September 2-4, 2015. □
- Mr. Momin Hussain Khan, URS, International Conference on Nanoscience and Nanotechnology, Colombo, September 2-4, 2015.

□ Students: NA

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / International) with details of outstanding participants, if any.**

“Current Trends in Particle Physics Research (CTPPR)-2014” – A national level conference arranged in March 2014. Funded by DST, University of Kalyani, BRNS.

**Eminent Speakers:**

Prof. Amitava Raichaudhuri, C.U.

Prof. Sunanda Banerjee, SINP, Kolkata

Prof. Sreerup Raichaudhuri, TIFR

**Seminars:**

Prof. Biswarup Mukhopadhyay, HRI, Allahabad.

Prof. Soumitra Sengupta, IACS, Kolkata

Prof. Palash B. Pal, SINP, Kolkata, to name a few.

**31. Code of ethics for research followed by the departments : As per international norms.****32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc.	Around 700 each year	27-28 every year in 1st semester	16-18 every year in 1st semester	97% (on an average)	100%
Ph.D.	Around 20 each year	4-5	2-3	NA	NA

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.Sc.	86% - 87%	13% - 14%	0% - 1%	Nil
Ph.D.	90%	10%		Nil

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET: On an average, 5 Students per year

GATE: On an average, 4 Students per year.

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	25%
PG to M.Phil.	NA
PG to Ph.D.	20%
Ph.D. to Post-Doctoral	
Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment	10%
Entrepreneurs	

**36. Diversity of staff**

% of faculty who are graduates of the same University	10%
% of faculty who are from other Universities within the State	90%
% from Other States	Zero
% from outside the country	Zero

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** One, Dr. A. Karmakar was awarded Ph.D.

**38. Present details of departmental infrastructural facilities with regard to**

- Library: Departmental Library does not exist.
- Internet facilities for staff and students: provided to everybody.
- Total number of class rooms: 4
- Class rooms with ICT facility: 1
- Students' laboratories: 4
- Research laboratories: 6

**39. List of doctoral, post-doctoral students and Research Associates**

- from the host institution/university :

SL.N O	Name	Date of registration	Area of research
1	Momin Hossain Khan	24.05.2012	Experimental condensed matter physics
2	Joy Sankar Roy	08.10.2012	Experimental materials science
3	Swarup Biswas	06.09.2013	Experimental materials science

SL.N O	Name	Date of registration	Area of research
4	Anirban Roy		Experimental materials science
5	Sanjoy Biswas		Experimental condensed matter physics
6	Jyoti Saha	16.04.2014	Magnetic material
7	Jahangir Alam	19.05.2011	Magnetic material
8	Pabitra Halder	06.12.2013	Magnetic material
9	Papiya Pal	03.12.2014	Theoretical materials science
10	Bipasha Raha	30.09.2013	Radioastronomy
11	Biplab Pal	19.01.2012	Theoretical condensed matter physics
13	Deblal Das	03.02.2012	Theoretical liquid crystal
14	Prabhash Mandal	19.01.2012	Theoretical liquid crystal
15	Pritam Saha	19.01.2012	Experimental materials science
16	Prakash Halder	23.02.2015	Quantum phase transition
17	Bharatri Debi Biswas	08.12.2013	Quantum phase transition
18	Kaushik Sarkar	24.05.2012	Gravitation and cosmology

- b) from other institutions/universities : ATANU NANDY, from Calcutta University. Registered on 25-3-2014.

**40. Number of post graduate students getting financial assistance from the university.**

2-3 per semester.

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. - NA**

**42. Does the department obtain feedback from?**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Detailed discussion is encouraged in the Departmental Committee meeting. Necessary amendments are then made in the curriculum or in the teaching modalities.

- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Done in consultation with every individual teacher. Treadbare discussion is made in open meetings involving faculty members. Suggestions are given to the respective teacher through interactive sessions.

- c. alumni and employers on the programmes offered and how does the department utilize the feedback? In a similar manner as done in the two above cases.

**43. List the distinguished alumni of the department (maximum 10)**

- Prof. Milan K. Sanyal, Former Diorector, Saha Institute of Nuclear Physics.
- Prof. Aswini Ghosh, IACS Kolkata and FNA, and J. C. Bose National Fellow 2015.
- Prof. Lokesh Trivedy, TIFR

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Special lecture are arranged every year and almost twice in every month. Distinguished researchers from Institutes around Kalyani, as well as from outside the state are invited to give talks, talk to the students and generate awareness about the possibilities of doing research in India and abroad. Students are also encouraged to visit neighboring Institutes, as well as to participate in Seminar sessions and Conferences outside their own University whenever possible.



**45. List the teaching methods adopted by the faculty for different programmes.**

- Normal Class Room teaching.
- Conducting students' seminar.
- Using multimedia for teaching appropriate topics.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Interactive sessions are conducted with the students frequently.
- Faculty members meet at regular intervals to discuss among themselves the methods, the outcome, and scope of further improvement.

**47. Highlight the participation of students and faculty in extension activities.**

*Same as outlined in part 44 above. Nothing in particular beyond this.*

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- Seminars
- Special discussion sessions.
- Group meetings of different research groups.
- Encouraging M.Sc. students to take up Project Work which may go beyond their usual curriculum, to learn to write a scientific paper and the skill to communicate with the outside world.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

NA

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has been continuously making effort to link the curriculum taught to the state of the art subject material. One basic, and extremely important part in teaching is to make the students believe that they are really not far from the frontline areas in Physics, and the Physics Department is working tirelessly on this aspect.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

- Perfect balance between senior and relatively junior yet highly enthusiastic faculty members.
- Collective effort of teaching and non-teaching members, students in the development of the department.
- Well equipped laboratories which serve the purpose of research and which are also open to the students for gaining insight into the subject.
- Collaboration at national and international level.
- Admirable sanction of Research Projects – a recognition by the Govt. of India.

**Weakness:** Unfilled faculty positions, occasional interruption of electrical power.

**Challenges:**

- To link up with major research centers in the country as well as outside it.
- To set up a Centre for Theoretical studies to enable a blend of the experimental group with the frontline theory groups in India.

**52. Future plans of the department.**

- We hope to work out a smarter course design pretty soon that will initiate a student to the frontiers in Physics in an even better way.
- Building up a fully equipped Computer Laboratory where every student would get a separate machine to work with.
- Building up a seminar room, totally equipped with state of the art facilities.
- Organizing International and National level conferences more frequently to ignite the innovative minds of the youngsters.



# DEPARTMENT OF PHYSIOLOGY



1. **Name of the Department** : **Department of Physiology**
2. **Year of establishment** : **2005**
3. **Is the Department part of a School/Faculty of the university?**  
**Yes, the Department of Physiology is a part of the Faculty of Science of this University.**
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)**  
**Name of the Programmes Offered:**
  - 1) **Post Graduate** : **M.Sc. in Physiology**
  - 2) **Doctoral** : **a) Ph.D. Programme**  
**b) D.Sc. programme**
  - 3) **Post doctoral** : **Post PhD Programme**
5. **Interdisciplinary programmes and departments involved :**
  - A. **Name of the interdisciplinary programme** : **Doctoral Research Programme**
  - B. **Departments involved :**
    - (i) The Department of Physiology, AIIMS, New Delhi.  
 Project Title: Effect of Inorganic Arsenic Compounds on the Activity of Intestinal Smooth Muscle in Mammal: A Molecular Physiological Study.  
 Funding agency: Department of Science and Technology, Ministry of Science and Technology, Govt. of India  
 Principal Investigator: Prof. Goutam Paul, Professor, Dept. of Physiology, KU and Co-PI Prof. Jayasree Sengupta, Former Professor and Head, AIIMS, New Delhi.
    - (ii) The Department of Biochemistry, Calcutta University, Ballygunj Circular Road, Department of Physiology, Vidyasagar Evening College (Calcutta University), Kolkata.  
 Project title: Studies on the influence of caloric restriction during aging in relation to physical activity and cognitive response.  
 Supervisor: Prof. Goutam Paul, Professor, Dept. of Physiology, Kalyani University,  
 Prof. Mrinal Kanti Poddar, Dept. of Biochemistry, C.U. and  
 Dr. Samir Kumar Ghosh, Dept. of Physiology, Vidyasagar Evening College, Kolkata.
    - (iii) Institute of Neuroscience, Kolkata.  
 Project Title: Comparative analysis of environmental toxins in Parkinson 's disease and healthy controls.  
 Supervisor: Prof. Goutam Paul, Professor, Dept. of Physiology, Kalyani University and Dr. Hrishikesh Kumar, Head of Neurology, Institute of Neuroscience, Kolkata.
    - (iv) The Department of Zoology, Rammohan College (University of Calcutta).  
 Project Title: Antiangiogenic therapy for treatment of cancer: Effect of 2 methoxyestradiol in combination with cyclophosphamide on experimental tumour growth in mouse.  
 Supervisor: Prof. Goutam Paul, Professor, Dept. of Physiology, Kalyani University and Prof. Samarendra Nath Banerjee, Department of Zoology, Rammohan College, Kolkata.

## (v) Department of Botany, Kalyani University.

Project Title: Isolation, characterization and application of the plant growth promoting rhizobacteria (PGPR) inhabiting the rhizosphere of *Sesbania bispinosa* (Dhaincha).

Supervisor: Professor Goutam Paul, Professor, Dept. of Physiology, Kalyani University and Professor Chandan Sengupta, Professor, Dept. of Botany, Kalyani University.

**6. Courses in collaboration with other universities, industries, foreign institutions, etc. :**

PhD programmes in collaboration with All India Institute of Medical Sciences (AIIMS) New Delhi; Calcutta University; Institute of Neuroscience, Kolkata; Rammohan College (Calcutta University); and Regional Occupational Health Centre (ICMR), Kolkata.

**7. Details of programmes discontinued, if any, with reasons : Not applicable****8. Examination System: Annual/Semester/Trimester/Choice Based Credit System:****a. Examination system for MSc course is based on Semester wise evaluation adopting the Choice Based Credit System (CBCS). The entire course is divided into four semesters:**

Sem-I	: Theo: 300 marks	Pract: 100 Marks	Credits: 16
Sem-II	: Theo: 250	Pract: 150	Credits: 16
Sem-III	: Theo: 200	Pract: 200	Credits: 16
Sem-IV	: Theo: 200	Pract: 200	Credits : 16

The total marks and credits evaluated :- Marks: 1600 Credits: 64

**b. Examination system for PhD course work is based on evaluation after one semester (06 months) programme adhering the UGC Regulations 2009 for PhD degrees as ratified by Kalyani University Executive Council.**

Framework for evaluation of PhD courses			
Course No.	Topics	Marks	Credits
101	Literature review	50	02
102	Research methodology including computer applications	100	04
103	Subject up-gradation (on recent development)	50	02
	Total Marks	200	08

**9. Participation of the department in the courses offered by other departments:**

The Department participates in the courses offered by other department through the involvement/participation of faculties.

- Prof. Goutam Paul:** (i) as a Guest Faculty in the Department of Biochemistry and Biophysics, (ii) in the Directorate of Distance Education and Learning, (iii) in the University NET coaching centre, (iv) in the Department of Zoology, and (v) in the Department of Environmental Management, Presidency University, and (vi) as a resource person in the orientation and refresher course conducted by the Academic Staff college (ASC) of Jadavpur University and Calcutta University.
- Dr. Subhashis Sahu:** (i) as a Guest Faculty in the Department of Physiology, Presidency University, (ii) as a Guest Faculty in the Department of Physiology, Rammohan College, CU and (iii) as a Guest Faculty in the Department of Physiology, West Bengal State University (Barasat).

**10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	01
Associate Professors	01	00	00
Assistant Professors	04	02	02
Others		15 (Guest Teachers)	

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
<b>Prof. Goutam Paul</b>	M.Sc(CU. Gold Medalist), M.Phil., Ph.D., MABMS., FABMS NET , (CSIR-UGC), GATE , WBES (EX)	PROFESSOR (recruited directly)	Molecular, Cellular and Systemic Neurophysiology; Electrophysiology; Molecular Neurotoxicology; Environmental Physiology including toxicology and microbiology; and Climate change Science	Teaching Experience : 27 years Research Guidance: 19 Years	MPhil: 01 (one) PhD: 08 (Eight)
<b>Dr. Subhashis Sahu</b>	M.Sc., Ph.D., MABMS., FABMS WBES (EX)	ASSISTANT PROFESSOR	Ergonomics and work Physiology, Chronobiology	Teaching experience: 15 years Research guidance: 08 years	MPhil: 01 (one) PhD: 03 (Three)
<b>Dr. Lakshmishri Lahiry</b>	MSc., Ph.D NET , (CSIR-UGC) , GATE	ASSISTANT PROFESSOR	Endocrinology and Reproductive Physiology, Cell and Cancer biology	Teaching experience: 04 years Research guidance: Nil	Nil

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

- Professor Debkumar Chakraborti**, Professor & Head, IIT, Guwahati.
- Professor Deewan SA Majid**, Professor, Department of Physiology and Director, COBRE Mouse Phenotype Core, Tulane University School of Medicine, New Orleans, LA, USA.

**13. Percentage of classes taken by temporary faculty – programme-wise information**

**MSc. Course : 10%**

14. **Programme-wise Student Teacher Ratio :** M.Sc. programme : 7:1 and PhD : 8:1

15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Staff	Sanctioned	Filled	Actual
Junior assistant	01	01	01
Office attendant	01	01	01
Laboratory Attendant	01	01	01
Casual		02 (Junior assistant -01; Sweeper - 01 )	

16. **Research thrust areas as recognized by major funding agencies :**

Neurotoxicology, Cancer Biology.

17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

**Research Projects (Completed): Professor Goutam Paul**

- a) **UGC funded major research project (2009-2014) :** “Effect of Bisphenol A (BPA) on the Function of Intestinal Smooth Muscle in Mammalian Model: A Molecular Physiological Study.” **Total grant received: Rs. 9,75,062/ (rupees nine lakh seventy five thousand sixty two only).**
- b) **DST funded major research project (2009 -2014) :** “Effect of Inorganic Arsenic Compounds on the Activity of Intestinal Smooth Muscle in Mammal: A Molecular Physiological Study.” **Total grant received : Rs. 10,000,00/- (rupees ten lakh only)**

**On-going research project : Dr. L.Lahiry**

- a) **UGC –BSR-Start-up-Grant :** “Explicating the role of Mammalian Ste Kinase (Mst) Pathway in Leukemia” **Total grant received : Rs. 6,000,00/- (rupees six lakh only)**

18. **Inter-institutional collaborative projects and associated grants received :**

- a) **National collaboration: 01** b) **International collaboration : Nil**

The Department of Physiology, AIIMS, New Delhi

Project title: “Effect of Inorganic Arsenic Compounds on the Activity of Intestinal Smooth Muscle in Mammal: A Molecular Physiological Study.”

**Total grant received : Rs. 10,000,00/- (rupees ten lakh only)**

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

**Departmental projects are funded by –**

- (i) **Funded by the Govt. of West Bengal in the Dept. of Higher Education. Grant received Rs. 38,000,00/- (rupees thirty eight lakhs only) in 2015.**
- (ii) **Funded by Department of Science and Technology -FIST-2015 programme of Govt. of West Bengal.**

**Grant received by Department of Physiology (as first installment) : Rs. 8,000,00/- (rupees eight lakh only) in 2015.**

20. **Research facility / centre with**

- a. state recognition : **Yes (Dept. of Higher Education, Govt. of West Bengal)**
- b. national recognition : **Yes (UGC and DST, Govt. of India)**

c. international recognition : NA

**21. Special research laboratories sponsored by / created by industry or corporate bodies: Not applicable**

**22. Publications: Faculty wise publications is given below-**

**A. Professor Goutam Paul**

**Professor**

**Publications (Year- 2011-2015)**

Research paper	:	49
Books	:	01
GenBank submission	:	09
Total	:	59

➤ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

SCOPUS	:	06
EBSCO	:	32
Citation Index – range / average	:	192 (total citations)
SNIP	:	0.414 (average)
SJR	:	0.338 (average)
Impact Factor – range / average	:	Google scholar : 1.92 (average)
		SCOPUS: 1.8
h-index	:	Google Scholar: 07 ; SCOPUS : 04

**B. Dr. L. Lahiry (2011-2015)**

**Assistant Professor**

**Publications (Year- 2011-2015)**

Research paper	:	01
Total	:	01

**23. Details of patents and income generated :**

**GenBank Submissions:**

- Dasgupta D, Ghati A, Sengupta C, Paul G (2015). *Pseudomonas fluorescens* strain DACG3 16S ribosomal RNA gene, partial sequence. GenBank: KP641168. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- A. Ghati, **G. Paul** (2012). *Geobacillus* sp. AGP-04 16S ribosomal RNA gene, partial sequence. GenBank: JX513957. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- A. Ghati, P. Tarafder, K. Sarkar and **G. Paul** (2011). *Bacillus cereus* strain AGP-03 16S ribosomal RNA gene, partial sequence. GenBank: JN858965. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.



- d) A. Ghati, D. Dasgupta, C. Sengupta and **G. Paul** (2011). *Escherichia coli* strain DACG2 16S ribosomal RNA gene, partial sequence. GenBank: JN858966. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- e) A. Ghati, P. Tarafder, K. Sarkar, M. Ghosh and **G. Paul** (2011). *Acinobacter* sp. AGP-02 16S ribosomal RNA gene, partial sequence. GenBank: JN639876. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- f) A. Ghati, D. Dasgupta, C Sengupta and **G. Paul** (2011). *Burkholderia* sp. DACG1 16S ribosomal RNA gene, partial sequence. GenBank: JN639877. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- g) D. Sarkar and **G. Paul** (2011). *Pseudomonas pudita* strain DSGPM5 16S ribosomal RNA gene, partial sequence. GenBank: JN245880. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- h) D. Sarkar and **G. Paul** (2011). *Bacillus* sp. DSGPM3 16S ribosomal RNA gene, partial sequence. GenBank: JN245881. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.
- i) D. Sarkar and **G. Paul** (2011). *Pseudomonas aeruginosa* strain DSGPM4 16S ribosomal RNA gene, partial sequence. GenBank: JN228116. National Centre for Biotechnology Information (NCBI), U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda MD, 20894 USA.

#### **24. Areas of consultancy and income generated :**

**Areas of the consultancy :** Source: Prasara Bharati, India's Public Service Broadcaster, Doordarshan Kendra: Kolkata, Subject: As a resource person for discussion of topics on public health for public awareness. **Rs. 4000/-**

#### **25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad.**

**Prof. Goutam Paul visited the Department of Toxicology, Aston University, Birmingham, UK in July, 2013 and Singapore, July, 2014.**

#### **26. Faculty serving in**

- a) National committees b) International committees c) Editorial Boards d) any other (please specify)

##### **a) National committees**

##### **➤ Prof. Dr. Goutam Paul:**

- i. Acted as Advisor of the West Bengal College Service Commission for SET examination and selection of Assistant Professor in Physiology.
- ii. Acted as Advisor of the West Bengal Public Service Commission for selection of Assistant Professor in Physiology.
- iii. Acted as Advisor of the West Bengal Joint Entrance Board.
- iv. Acted as an Executive Committee Member of Physiological Society of India.

##### **c) Editorial Boards**

##### **A. Prof. Dr. Goutam Paul**

- 1. Editor-in-Chief, Journal of Environmental Physiology (ISSN: 0974-7036) published by Dept. of Physiology, Kalyani University.

##### **B. Dr. Subhashis Sahu**

- 1. Corresponding Editor, Journal of Environmental Physiology (ISSN : 0974-7036).

## 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Faculty members are recharged through orientation programme and refresher course organized by ASC of other university.

- a) **Dr. Subhashis Sahu, Asstt. Professor( Stage –II)**, Participated in Refresher programme, UGC-Academic Staff College, University of Calcutta held on 3<sup>rd</sup> to 22<sup>nd</sup> March, 2014.
- b) **Dr. L.Lahiry, Asstt. Professor(Stage –I)**, participated in 56<sup>th</sup> Orientation Programme, UGC-Academic Staff College, Jadavpur University, Salt Lake, Kolkata held on 02<sup>nd</sup> to 28<sup>th</sup> Feb., 2015

## 28. Student projects

- a. percentage of students who have done in-house projects including inter-departmental projects : **90 % (Ninety percent)**
- b. percentage of students doing projects in collaboration with other universities/ industry / institute : **10% (Ten percent)**

## 29. Awards / recognitions received at the national and international level by

### a. Faculty

#### A. Prof. (Dr.) Goutam Paul, Professor & Head

- i. Chaired a session in FIPS-PHYSICON\_2015 held at Calcutta University in Dec. 2015.
- ii. **Delivered a Key note lecture in International Conference on Ergonomics entitled “Bisphenol A inhibits small intestinal and cardiac motor function through nitergic and cholinergic signaling pathways”** in International Conference on Ergonomics (**HWWE, 14**), held in IIT, Guwahati from 2<sup>nd</sup> to 5<sup>th</sup> Dec, 2014.
- iii. **Delivered an invited talk in 1<sup>st</sup> Annual International Conference on Advanced Research: Physiology (ARP,2014)** held at Singapore from 21<sup>st</sup> to 22 July, 2014
- iv. **Chaired a scientific session in 1<sup>st</sup> Annual International Conference on Advanced Research: Physiology (ARP, 2014)** held at Singapore from 21<sup>st</sup> to 22 July, 2014.
- v. Presented **Invited paper** entitled “Inhibition of Duodenal Movement in vitro of Rat by Bisphenol A Through Nitric Oxide Mediated Guanylyl Cyclase and  $\alpha$ -Adrenergic Pathways” at the International Union of Physiological Sciences (IUPS) Congress 2013 held during 21-26 July, 2013 at Birmingham, UK.
- vi. **Professor Goutam Paul awarded gold medal by Physiological Society of India for delivering prestigious Ramendra Sundar Sinha Memorial Oration, 2011 on 23<sup>rd</sup> June, 2012.**
- vii. **Delivered Plenary Lecture on “Effect of sodium arsenate on different neurotransmitters and related enzymes in mammalian intestine: A combination study”.** In the XXIV Annual Conference of Physiological Society of India-“Physicon-2012”, organized by Andhra Medical College, Visakhapatnam, AP, 12-14 Dec, 2012.

#### B. Dr. Subhashis Sahu, Assistant Professor

- i. **Delivered a prestigious Ramendra Sundar Sinha Memorial Oration Lecture and received a gold medal from PSI in July, 2014** held at University of Calcutta.
- ii. **Received the award for best research paper** in National Seminar on ‘Ergonomics for Enhanced Productivity’ held in Tamil Nadu Agricultural University from 18<sup>th</sup> to 19<sup>th</sup> February, 2013.
- iii. Dr. Subhashis Sahu received the fellowship title FABMS from IABMS in Nov, 2011 for his contribution in Biomedical Sciences.

### b. Doctoral / post doctoral fellows :

#### ➤ Post doctoral fellows:

**Dr. Arpan Kumar Maiti** has been awarded Fulbright-Nehru Fellowship in the year 2011-2012.

➤ **Doctoral fellows:**

- i. Three following doctoral students working under the supervision of Prof. Goutam Paul have been **awarded travel grant (GBP 1000 each)** by the **International Union of Physiological Sciences (IUPS)** for presentation of paper in **IUPS Congress 2013 held at Birmingham, UK during July 21 -26, 2013**

Name of the doctoral students a)	<b>Mr. Kaushik Sarkar</b>
b)	<b>Ms. Panchali Tarafder</b>
c)	<b>Ms. Mouri Ghosh</b>

- ii. **Smt. Sanghamitra Pal** has been awarded **DST-INSPIRE** fellowship in the year **2014-2015** for pursuing Ph.D. in Department of Physiology, University of Kalyani.
- iii. **Dr. Kaushik Sarkar, Dr. Panchali Tarafder and Mr. Partha Pratim Nath** attended and presented research papers in 1st Annual International Conference on Advanced Research: Physiology (**ARP 2014**) held in **Singapore** from 21st to 22 July, **2014**.
- iv. **Smt. Ashma Khatun** has been awarded **DST-INSPIRE** fellowship in the year **2014-2015** for pursuing Ph.D. in Department of Physiology, University of Kalyani.
- v. **Smt. Mukti Mondal** has been awarded **DST-INSPIRE** fellowship awarded DST-inspire fellowship in the year **2012-2013** for pursuing Ph.D. in Department of Physiology, University of Kalyani.
- vi. **Shri Partha Pratim Nath** has been awarded **DST-INSPIRE** fellowship in the year **2011-2012** for pursuing Ph.D. in Department of Physiology, University of Kalyani.
- vii. **Shri Asit Adikari** has been selected for **Rajib Gandhi National fellowship in 2013 -14** for pursuing Ph.D. project work in the Dept. of Physiology, Kalyani University.
- viii. **Shri Sontu Dulov** has been selected for **Rajib Gandhi fellowship in 2012-13** for pursuing Ph.D. project work in the Dept. of Physiology, Kalyani University.

c. **Students :**

**Shri. Shib Sankar Roy**, MSc 3<sup>rd</sup> Sem Students has achieved first position in **State Level Science Project Competition** organized by West Bengal State Council of Science and Technology, Govt. of West Bengal in West Bengal Sate youth Science Fair, **2014** .

**30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.**

**Seminars organized by the department:**

1. **Feb 13, 2014: Dr. A. K. Bhattachayya and N.N. Dasgupta Memorial Lecture-** Jointly organized by Dept of Physiology, Zoology, Microbiology, Mol. Biology and Biotechnology and Botany.

**Speaker** :Prof Samir Bhattacharya, Emeritus Professor, Visva Bharati, Santiniketan, **Topic:** Insulin resistance, inflammation and immunity are linked by lipid,

**Speaker** : Prof. Nitai P Bhattacharya, Saha Institute of Nuclear Physics, Kolkata, **Topic:** Transcription factor and microRNA co-target interaction network: network motifs and implications in Huntington's disease

2. **March, 27, 2014: Lecture- Speaker** : Prof J.R. Bandekar, Bhabha Atomic Research Centre, Mumbai, **Title** : Micobiological aspects of Radiation Processing in Food, Jointly organised by Dept of Physiology, Zoology, Microbiology, Mol.Biology and Biotechnology and Botany.

Source of Funding: UGC-Merged Scheme grant.

**31. Code of ethics for research followed by the departments :**

**The Department of Physiology follows the code of ethics for research as stated in the Kalyani University ethical guidelines for research as approved by the Faculty Council and Executive Council of Kalyani University.**

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MSc in Physiology -2011	25	5	10	100%	100%
MSc in Physiology -2012	81	5	9	100%	100%
MSc in Physiology -2013	102	7	5	100%	100%
MSc in Physiology -2014	64	10	7	-	-
MSc in Physiology -2015	88	2	15	-	-

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MSc in Physiology -2011	93.93	6.67	Nil	Nil
MSc in Physiology -2012	92.86	7.14	Nil	Nil
MSc in Physiology -2013	66.67	33.33	Nil	Nil
MSc in Physiology -2014	94.12	5.88	Nil	Nil
MSc in Physiology -2015	88.23	11.76	Nil	Nil

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

**a. Candidates qualified in NET/SLET/SET/GATE etc. (Name, Year of passing): 05 (Five)**

- **Kaushik Sarkar** qualified WBCSC SET-2015.
- **Biswajit Saha** qualified NET examination 2013.
- **Soma Majumder** qualified NET Examination 2013.
- **Bidisha Ghosh** Qualified GATE examination 2013.
- **Rabindra Nath Majumder** qualified NET examination 2012.

**b. Candidates qualified in West Bengal Public Service Commission interview: 03 (Three)**

- **Dr. Kaushik Sarkar**- Stood first in the merit panel of recruitment of Assistant Professor in Physiology in W.B.E.S in 2015.
- **Dr. Atanu Saha**- Selected for the recruitment of Assistant Professor in Physiology in W.B.E.S in 2014.
- **Kamalesh Das**- Selected for the recruitment of Assistant Professor in Physiology in W.B.E.S in 2014.

**c. Candidates qualified in West Bengal College Service Commission examination: 03 (Three)**

- **Kamalesh Das**- Selected for the recruitment of Assistant Professor in Physiology in WBCSC in 2014.

- **Soma Majumder-** Selected for the recruitment of Assistant Professor in Physiology in WBCSC in 2014.
- **Rabindra Nath Majumder-** Selected for the recruitment of Assistant Professor in Physiology in WBCSC in 2014.

### 35. Student progression

	Percentage against enrolled
UG to PG	Not applicable
PG to M.Phil.	Not applicable
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	2%
Employed	
➤ Campus selection	Nil
➤ Other than campus recruitment	80%
Entrepreneurs	20%

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	Nil
from other universities within the State	100%
from universities from other States from	Nil
universities outside the country	Nil

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period :

One D.Sc thesis submitted-2015.

### 38. Present details of departmental infrastructural facilities with regard to

- a. Library : (i) Number of books in the library : 398 (ii) maintained and operated by Central Library, Kalyani University.
- b. Internet facilities for staff and students : 100% with WiFi connection.
- c. Total number of class rooms : 03
- g) Class rooms with ICT facility : 03
- h) Students' laboratories : 05
- i) Research laboratories : 03

### 39. List of doctoral, post-doctoral students and Research Associates

from the host institution/university

- **Under Prof. (Dr.) Goutam Paul, Professor**

Doctoral degree awarded (PhD) : 08 (from 2011-2015)		
Name	Title	Year
Shri Diptendu Sarkar	Studies on isolation and molecular characterization of heavy metal accumulating bacteria.	2015
Shri Amit Ghati	A study on esterase producing extremophiles and molecular characterization of the esterases(s)	2015
Shri Kaushik Sarkar	Effect of Bisphenol A (BPA) on the function of intestinal smooth muscle in mammalian model: A molecular physiological study.	2014
Ms. Panchali Tarafder	Effect of Bisphenol A (BPA) on some haematological and	2014

Doctoral degree awarded (PhD) : 08 (from 2011-2015)		
Name	Title	Year
	cardiovascular variables in animal models: A physiological study.	
Shri Atanu Saha	Ergonomic Studies on Police Personnel Working in Rotating Shift in West Bengal, India	2014
Ms. Mouri Ghosh	Effect of Inorganic Arsenic Compounds on the Activity of Intestinal Smooth Muscles in Mammals: A Molecular Physiological Study	2014
Shri Narayan Chandra Choudhuri	Impact of Training Programmes on Poultry Farming and Evaluation of Various Pure and Cross Breeds of Nicobari Fowl under Island Ecosystem	2012
Shri Arpan Kumar Maiti	A study on the toxicity of some metals present in fly ash on piscine and mammalian models.	2010

Enrolled for PhD programme		
Name	Title	Year
Smt. Sanghamitra Pal	Effects of Bisphenol S (BPS) and combination of BPS and BPA on haematological and cardiovascular function in rat model: A molecular physiological study.	2014
Smt Ashma Khatun	Effect of chocolate brown HT on some male and female reproductive variables in rat: A molecular physiological study.	2014
Ms. Aindril Das	Studies on the influence of caloric restriction during aging in relation to physical activity and cognitive response.	2014
Shri Suban Baskey	Effects of Chlorpyrifos on some hematological and biochemical variables in rats: A physiological study.	2013
Shri Kamlesh das	A study on the toxicity of chlorpyrifos on male and female reproductive functions in animal models: An environmental physiological approach.	2013
Smt. Laishram Brojendra Singh	Evaluation of the efficacy of some practices conventionally used for the production of local cultivars of China banana-AAB ( <i>Musa Paradisiaca</i> ) in Andamans: An environmental physiological study.	2013
Mrs. Mukti Mondal	Effect of monosodium glutamate on the function of female reproductive system in rat: A molecular physiological study.	2012
Shri Partha Pratim Nath	Detection of the presence of metanil yellow in food stuffs and physiological study on the effects of metanil yellow on female reproductive functions in rats.	2011

Post doctoral students	
Name	Year
Dr. Arpan Kumar Maiti	2010-2011
Dr. Kaushik Sarkar	2014-2015

➤ **Under Dr Subhashis Sahu, Assistant Professor**

Doctoral degree awarded (PhD) : 03 (from 2011-2015)		
Name	Title	Year
Ms. Moumita Sett	Ergonomic studies on female workers working in brick making industries in unorganized sectors in West Bengal	2013
Shri Atanu Saha	Ergonomic Studies on Police Personnel Working in Rotating Shift in West Bengal, India".	2013
Shri Subhabrata Moitra	Ergonomic evaluation of workload and work environment of the Goldsmiths engaged in unorganised sector of West Bengal.	2014



Enrolled for PhD programme		
Name	Title	Year
Santi Gopal Maity	Ergonomic studies of male workers engaged in informal brick making industries in West Bengal	2011
Smaranika Goswami	Ergonomic study of musculoskeletal problem of nurses working in Health care unit	2011
Prasun Halder	Ergonomic evaluation of effect of rotating shift work on health care unit personnel	2012
Santu Durlov	A physiological study on occupational health hazards of handloom weavers in West Bengal	2013
Arijit Chatterjee	A physiological study on occupational health hazards of male construction labourers in West Bengal	2013
Asit Adhikari	Evaluation of workload and work environment of sawmill worker in west Bengal West Bengal	2014

from other institutions/universities : Not Applicable

**40. Number of post graduate students getting financial assistance from the university.**

**10 students: Two (02) students per year.**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. No**

**42. Does the department obtain feedback from-**

Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

**Yes, the Department obtains feedback from faculty on curriculum. The department utilizes the feedback by:**

- Introducing the essential or deleting the irrelevant topic in the curriculum after a thread bare discussion in the Departmental Committee meeting and discussion on issues in meeting of the faculty council of science.
- By Inviting guest faculties of other universities and higher educational institutions having the expertise on some emerging topics, if feedback on the said topics is received from the faculty on curriculum.

Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

**Yes, the Department obtains feedback from students on staff, curriculum and teaching-learning-evaluation and the Department utilizes the feedback at the end of semester end examination. The Department utilizes the feedback by :**

- Inviting expertised guest faculties,
- By revising curriculum and;
- By changing teaching-learning-evaluation methods, with the approval of councils and executive councils.

Alumni and employers on the programmes offered and how does the department utilize the feedback?

**Yes, the Department receives feedback from alumni and employers on the programmes offered and department utilize the feedback by:**

- Causing necessary revisions of the curriculum for placement of the postgraduate students and doctoral students.

**43. List the distinguished alumni of the department (maximum 10)****Department of Physiology established at 2005 and first batch obtained MSc. Degree in 2007**

Sl. No.	Name	Year of Passing	Position held
1.	Dr. Kaushik Sarkar	2014 (Former MSc student in 2007 and PhD student, 2014)	Assistant Professor in Physiology in W.B.E.S. at Krishnagar Government College, Krishnagar, Nadia, WB.
2.	Dr. Atanu Saha	2014 (Former PhD student)	Assistant Professor in Physiology in W.B.E.S. at Kallygunj Govt. College, Nadia, WB.
3.	Mrs. Soma Majumder	2009 (Former MSc. Student)	<i>Assistant Professor in Physiology, Bijoygarh Jyotish Roy College, Jadpur, Kolkata.</i>
4.	Mrs. Satabdi Adhikari	2010 (Former MSc. Student)	Assistant Teacher at Lalgola SM Girls High School, Murshidabad, WB.
5.	Mrs Angona Goswami	2009 (Former MSc. Student)	Assistant Teacher at Bejpara Girls' High School, Murshidabad, WB.
6.	Dr. Rabindranath Majumdar	2009 (Former MSc. Student)	Assistant Professor, Department of Physiology, Tramralipta Mahavidyalaya, West Bengal
7.	Dr. Arpan Kumar Maiti	2010 (Former Ph.D student)	Fulbright-Nehru Post Doctoral Fellow and Visiting Researcher, Sahlgrenska Academy, Institute of Biomedicine, Gothenburg, Sweden.
8.	Dr. Pinaki Chattopadhyay	2006 (Former Ph.D Student)	Secretary, Faculty of Science(PG), University of Kalyani

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.****Special Lectures/ workshop organized :**

- a) **Professor Debkumar Chakraborti**, Professor & Head, IIT, Gowhati.

Topic: 'virtual ergonomics lab for assessing physical aspects of design' on **5<sup>th</sup> Oct, 2012.**

- b) **Professor Deewan SA Majid**, Professor, Department of Physiology and Director, COBRE Mouse Phenotyping Core, Tulane University School of Medicine, New Orleans, LA.

Topic "Renal mechanism of salt sensitivity and hypertension" On **21<sup>st</sup> Dec, 2015.**

**45. List the teaching methods adopted by the faculty for different programmes.****A. For Theoretical Teaching:**

- Traditional audio-visual method of teaching using blackboards and white boards.
- Power-point presentation of the topic.
- Allotting assignments to students.
- Group discussion on a topic.
- Oral and poster presentation by the students.
- Review of literatures by the students.

**B. For Practical teaching:**

- Demonstration of experiments.
- Performance of experiments by the students.



- (c) Submission of reports on experiments.
- (d) Discussion and interpretation of results.
- (e) Presentation of project work.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

**The Department ensures that programme objectives are constantly met and learning outcomes are mentioned by:**

- a) By convening a meeting of the departmental committee for discussion on the feedbacks from students and faculties.
- b) By taking feedbacks from the students about the curriculum, topics covered by the respective faculties and teaching performance of the faculties at the end of semester examination.
- c) By collecting placement data of the students in the research institutions and teaching institutions.

**47. Highlight the participation of students and faculty in extension activities.**

**Participation of students and faculties in extension activities:**

- a) Departmental students regularly participate as a group in national service scheme (NSS) activities of the university.
- b) Departmental students participate in health awareness camp in holidays in different municipal areas and rural villages. The topic of the health awareness camps were :
  - i. Factors causing hypertension and ameliorating hypertension.
  - ii. Public health.
  - iii. Renewable energy sources.
  - iv. Rain water harvesting.
  - v. Energy conservation.
  - vi. Climate change adaptation and mitigation.
- vii. Sources and effects of air pollution, water pollution and sound pollution.
- c) Faculties of the Department are also participated in the social awareness camp along with the students.
- d) Faculties participate in various social awareness programmes in national electronic media particularly in Doordarshan DD Bangla, Prasar Bharati.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

**“Beyond Syllabus Scholarly activities” of the Department:**

- a) The Department publishes a journal on environment and physiology entitled “Journal of Environmental Physiology”, (ISSN 0974-7036) , since 2008.
- b) Students of the Department biannually publish wall magazine.
- c) The Department gives stall in the science fair to expose their activities.
- d) Doctoral students of the Department regularly participate in different national and international conferences for presenting their research outcomes.
- e) The postgraduate and doctoral students of Department organize the reunion programme annually to exchange views between alumni and present students.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NO**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

**Contributions of the Department in generating new knowledge (Basic and applied) :**

- a) A new neural pathway has been discovered in bisphenol A (BPA) induced effects on intestinal motor functions.
- b) A set of new efferent neurons, neurotransmitter substances and mechanism have been proposed in arsenic induced hazards on gastrointestinal functions.
- c) The neurological basis about the effects of Metanil yellow, Monosodium glutamate and other food colours on the reproductive and nervous system functions have been proposed.
- d) An exhaust fan has been designed in goldsmith workshop for reducing the gas induced toxic hazards on goldsmiths.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

**A. Strengths of the Department:**

- a) Enough scope for expansion of the Department.
- b) Meritorious existing faculties.
- c) Sincere and meritorious students.
- d) Availability of basic teaching and learning aids, including the smart classrooms, labs with adequate chemicals and basic equipments.
- e) Internet access to all students.
- f) Adequate text books in the library.
- g) Availability of solar electricity in operating some equipments and illuminating the labs in an attempt to reduce the stress on conventionally generated electricity involving the production of green house gases.

**B. Weaknesses of the Department:**

- a) Inadequate number of faculty.
- b) Inadequate state and federal funding.
- c) Lack of high-end equipments.
- d) Most of the students are first generation learners and come from rural catchment zones of the university.

**52. Future plans of the department.**

**A) Infrastructural plans of action:**

- a) To expand the spaces of the Department of Physiology.
- b) To upgrade and develop laboratories for Environmental Physiology and Electrophysiology, Cell culture laboratory, Physiological Chemistry, Histology, Experimental Physiology, Ergonomics and Occupational Physiology, with adequate furnitures and equipments for the purpose of PG courses and research.
- c) To upgrade the existing laboratories.
- d) To create a space for animal housing..

**B) Plans for the creation of posts to enhance the human resources:**

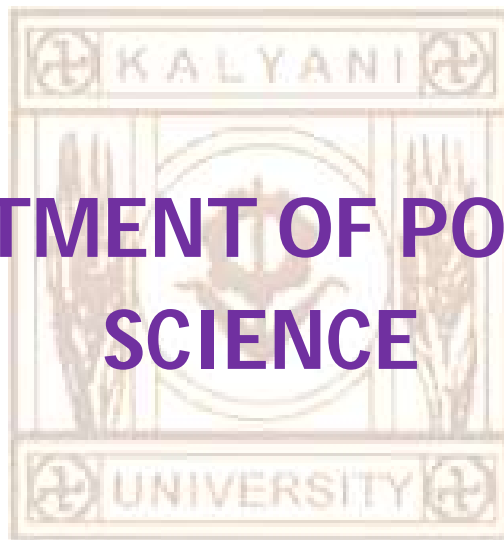
- a) To pursue for the creation of new teaching posts and filling up vacant post for the Department.
- b) To pursue for the creation of new non-teaching posts, particularly technical staff for the good cause of the students.

**C) Academic :**

- a) To introduce a Certificate and Diploma course on human nutrition/occupational health.
- b) To introduce a diploma/certificate course on histopathology and clinical biochemistry.
- c) To introduce a two years course of MPhil on human health and nutrition.



# DEPARTMENT OF POLITICAL SCIENCE



- 1 **Name of the Department** Political Science
- 2 **Year of establishment** 1978
- 3 **Is the Department part of a School/Faculty of the university?**  
Dept. under Arts Faculty
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)** P.G, Ph.D.
- 5 **Interdisciplinary programmes and departments involved** N. A
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc.:** N. A
- 7 **Details of programmes discontinued, if any, with reasons** N. A
- 8 **Examination System: Annual/Semester/Trimester/ Choice Based Credit System**
- 9 **Participation of the department in the courses offered by other departments** N. A
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned 08	Filled 08	Actual (including CAS & MPS)
Professor	1 (open)	1	
Associate Professors	1	1	Associate Prof promoted to Prof through CAS(1)
Asst. Professors	6	6	Assistant Prof promoted to Associate Prof through CAS(1)
Others	1(Research Associate)	Vacant	

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Area of interest / Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Prof. Sumit Mukerji	M.A., M.Phil. Ph.D.	Professor	Political Thought, Ethnic studies and Terrorism.	UG-19yr PG-14yr	08 02 Awarded
Prof. Prabir. Kumar De	M.A., M.Phil Ph.D.	Professor	Public Administration,, Human Rights and Local Govt. and Politics.	UG-19yr PG-09yr	06 02 Awarded
Sm. Malyasree Mukherjee	M.A., M.Phil.	Associate Professor	Indian Politics Political Economy and Development Studies	PG-30yr	03 01 Awarded

Name	Qualification	Designation	Area of interest / Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Shri. Anindya Batabyal	M.A.	Assistant Professor	International Relations and Political Theory	UG-09 months PG-11 yr 08 months	01
Dr. Shiladitya Chakraborty	M.A., Ph.D.	Assistant Professor	Public Administration and Local Govt. and Politics	UG-01yr PG-10yr	03
Dr. Md. Ayub Mallick,	M.A., Ph.D.	Assistant Professor	State Politics and Indian Politics	PG-08yr 06months	03
Shri. Pratip Chattopadhyay	M.A. M.Phil	Assistant Professor	Indian Foreign Policy, Indian party system and election studies	UG-01yr 06 months PG-05yr 06 months	05
Sm. Nivedita Saha	M.A.	Assistant Professor	South Asia, Indian Political Thought and Politics in India	PG-06yr	
Sri Dilip Kundu	M.A.	Research Associate	Superannuated		

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors**

**N. A**

**13. Percentage of classes taken by temporary faculty – programme-wise information**  
**N. A**

**14. Programme-wise Student Teacher Ratio** 26:1 (P.G) 3:8 (P.HD)

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual.** Two Permanent, Two Casual.

**16. Research thrust areas as recognized by major funding agencies** N. A

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.** N. A

**18. Inter-institutional collaborative projects and associated grants received** N. A

a) National collaboration

b) International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** UGC major research project 2010, Total grant received 7,66,200.

**20. Research facility / centre with**

**N. A**

- state recognition
- national recognition
- international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies** N.A

**22. Publications:**

- ❖ Number of papers published in peer reviewed journals (national / international) 47
- ❖ Monographs 2 submitted for publication with ISBN
- ❖ Chapters in Books 25

- ❖ Edited Books **1 forthcoming from Monohar**
- ❖ Books with ISBN with details of publishers **07**
- ❖ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- ❖ Citation Index – range / average
- ❖ SNIP
- ❖ SJR
- ❖ Impact Factor – range / average **02**
- ❖ h-index

**23. Details of patents and income generated** **N. A**

**24. Areas of consultancy and income generated** **N. A**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad** **N. A**

**26. Faculty serving in**

National committees

International committees **one**

Editorial Boards-- **three**

any other (please specify) Faculties served in PG boards moderation boards and other academic bodies of other universities within the state. **Faculties attached with PG Boards and others academic Bodies of other universities of the state.**

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) Teachers regularly participate in orientation refresher and other academic programmes.**

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects **N. A**
- percentage of students doing projects in collaboration with other universities/ industry / institute **N. A**

**29. Awards / recognitions received at the national and international level by**

- Faculty
  - Bharat Shikha Ratan Award, 2013**
  - Bharat Jyoti Award, 2013**
  - Rajiv Gandhi Excellence Award, 2014**
- Doctoral / post doctoral fellows
- Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.**

SL. No.	Date of Seminar	Details of Seminar	Funding Agency
1	November 18-19, 2013	National Seminar on Society, Police and Governance, India in the post millennium period	MAKAIS, ICSSR, University of Kalyani
2	25.3.2014	National Seminar on Rethinking India's Democracy in the New Millennium	University of Kalyani
3	March 20 <sup>th</sup> and 21 <sup>st</sup> 2015	State level seminar on Issues in contemporary politics organised by West Bengal Political Science Association and Dept of Political Science	University of Kalyani and West Bengal Political Science Association
4	7 <sup>th</sup> – 9 <sup>th</sup> December 2015	International conference on Elections and Political Parties in South Asia : A 21st Century Perspective organised by Dept of Political Science and International Political Science Association	ICSSR, University of Kalyani, Bank of India, State Bank of India

Five (5) Sources of Funding MAKAIAS, ICSSR, Kalyani University, Bank Of India, State Bank of India

**31. Code of ethics for research followed by the departments Original research/ Project Undertaken**

**32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M. A(2014-2015)	272	52	45	100	100

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.A (2014-2015)	87	13	N. A	N. A
Ph.D 2014-15	55	80	N. A	N. A

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:**

NET-12approx

SET-17approx

Civil Services and Defense Services- data not available



**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	Data not available
PG to M.Phil.	Not applicable
PG to Ph.D.	08
Ph.D. to Post-Doctoral	Not applicable
Employed <ul style="list-style-type: none"> <li>▪ Campus selection(N.A)</li> <li>▪ Other than campus recruitment</li> </ul>	Data not available
Entrepreneurs	

**36. Diversity of staff**

Percentage of faculty who are graduates of	
the same university	none
from other universities within the State	100%
from universities from other States	One
from universities outside the country	none

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period** M.Phil-01, PhD-01 (last five years)**38. Present details of departmental infrastructural facilities with regard to**

- a) Library N. A
- b) Internet facilities for staff and students YES
- c) Total number of class rooms 3
- d) Class rooms with ICT facility Two
- e) Students' laboratories N. A
- f) Research laboratories N. A

**39. List of doctoral, post-doctoral students and Research Associates** 25 (doctoral)

- a) from the host institution/university 06
- b) from other institutions/universities 19

**40. Number of post graduate students getting financial assistance from the university.**

Almost 90%

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.** NO as of now.**42. Does the department obtain feedback from**

- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? yes
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? The Dept. works upon the feedback received
- c. alumni and employers on the programmes offered and how does the department utilize the feedback? N. A

**43. List the distinguished alumni of the department (maximum 10)**

Prof. Raj Kumar Kothari (VU) West Bengal

Assit Prof. SidharthaSankar Manna (GBU) West Bengal

Assit Prof. Malay Mandal (RBU) West Bengal

Assit Prof. Asish Mistry (Asansol University), West Bengal

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Prof. Sobonlal Dutta Gupta delivered the first lecture on May2, 2013.

Prof. Tapan Chattopadhyay delivered the second lecture on May16, 2013

Prof. Partha Pratim Basu delivered the third lecture on May17, 2013.

First Prasanta Sengupta Memorial Lecture delivered in March 2015

**45. List the teaching methods adopted by the faculty for different programmes. Class Lecture, Group discussion, term paper, seminar presentation etc.****46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

The Dept. strictly adheres to the academic calendar. Monitoring process is carried on continuously

**47. Highlight the participation of students and faculty in extension activities. NSS, NGOs, Election Survey Conducted with CSDS, Sports and cultural activities etc.****48. Give details of “beyond syllabus scholarly activities” of the department.**

1. The Dept holds students seminar, extension lectures by visiting Scholars, state and National, international level Seminars organised regularly
  2. The Dept is bringing out the first issue of the biannual referred journal named Kalyani Journal of Political Studies by February 2016..
  3. The Dept has decided to apply for UGC SAP.
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NO

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- (i) Exposing the students to diverse theoretical advances of the discipline.
- (ii) Contemporariness, comprehensiveness and intellectual motivation are the three hallmarks of our approach to teaching Political Science.
- (iii) Opening up new frontier areas of research.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength**

- (i) Some of the faculty members have publication in reputed peer reviewed and other recognized journals. Some of them have authored books.
- (ii) Two major UGC projects under Prof. Sumit Mukerji have already been completed. One project report has already been published as a book.

- (iii) Holding of seminars, (States, national, International) symposiums, lecture series as a part of the ongoing academic activities of the department.
- (iv) Opening up new Frontier areas of research for the departmental research scholars.
- (v) Motivating and involving students for academic and extra-curricular activities like student seminars, student magazines, NSS, election studies, Youth Parliament etc.

#### **Weakness**

- (i) Infrastructure lacuna is a serious hindrance.
- (ii) Lack of adequate teaching posts in the department.
- (iii) Poor teacher student ratio.
- (iv) Department suffers from acute space crunch from the beginning without which further expansion of academic activities will be difficult.
- (v) Inadequacy of funds.

#### **Opportunities**

- (i) Applying for UGC SAP.
- (ii) Exchange programme with national and international Universities/ Research Institutes/ Academic Bodies.
- (iii) Inviting adjunct faculties and visiting fellows in the department.
- (iv) Project consultancy by faculty members to be considered.
- (v) Catering to the placement opportunities of the departmental students.

#### **Challenges**

- (i) Imparting quality education to the majority of the students coming from rural and underprivileged background.
- (ii) To overcome the inadequacies presently faced by the department due to shortage of faculty, lack of infrastructure and space.
- (iii) Attracting better quality students from other universities of the state as well as from universities outside West Bengal.
- (iv) Digitalization of library and smart class rooms.
- (v) Equipping our students to compete successfully in different fields.

#### **52. Future plans of the department.**

- (a) The department plans to introduce M.Phil programme in Political Science preferably from the next academic session.
- (b) The biannual journal of the Dept., Kalyani Journal of Political Studies would be launched by February 2016
- (c) Holding an International Conference on Human Rights in South Asia in Nov 2016.
- (d) A national Seminar on Women Issues in India to be organised in March 2016.
- (e) Smart Class room teaching to be introduced
- (f) A workshop on Disaster Management will be conducted in the present academic session.
- (g) Workshops on Counter-Terrorism and Research Methodology are also conceived as part of our future academic programme.
- (h) One day workshop on human right would be held sometime in August 2016

# DEPARTMENT OF RURAL DEVELOPMENT STUDIES



- 1 **Name of the Department :** Department of Rural Development Studies
- 2 **Year of establishment :** 2003
- 3 **Is the Department part of a School/Faculty of the university? :** Faculty of Arts and Commerce
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** Masters in Rural Studies (MRS) & Ph.D
- 5 **Interdisciplinary programmes and departments involved :**  
The MRDM/MRS programme is multi-disciplinary in nature and students are admitted to the programme having honours degree in BA/B.Sc/B.Com. The PhD programme also carried out giving stress subjects on of inters- disciplinary subjects.
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc. :** Nil
- 7 **Details of programmes discontinued, if any, with reasons :** Nil (The course Masters in Rural Development and Management has been renamed as Masters in Rural Studies from the session 2014-2015)
- 8 **Examination System: Annual/Semester/Trimester/Choice Based Credit System :** Semester
- 9 **Participation of the department in the courses offered by other departments:** Nil
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Teaching Posts	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	0	0	1
Associate Professors	2	1	0
Assistant Professors	3	2	2
Others			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Sudipta Sarkar	M.Com, Ph.D	Assistant Professor and HOD	Accounting and Finance, Financial Management for Development Sector, NGO Operations and Management, Rural Entrepreneurship	Research- 18(approx) Teaching- 16(approx)	04 (On going including 2 nos. in the Deptt. Of Commerce)
Professor Udaybhanu Bhattacharyya	M.Com, Ph.D	Professor	Decentralisation and Panchayati Raj; Gender issues; budget, accounting, finance and financial	Research- 22 (approx) Teaching- 19 (approx)	PhD a)Awarded- 01(2013/CU) b)Submitted-

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
			management of government organisations; micro finance and rural marketing; other contemporary issues on Rural Development.		01(2014/CU) C)Ongoing-02(from 2013/KU)
Dr. Tapati Bhadra (Banerjee)	MA, Ph.D	Assistant Professor	Social Sector development studies, Health & Nutrition, Gender studies, Livelihood Development	Research- 12 years (approx) Teaching-5 years (approx), (Part-time) 2yrs 5 months	PhD a) Ongoing-3

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil

**13. Percentage of classes taken by temporary faculty – programme-wise information**

Part-I Sem-I 2013-49% & Part-II Sem-I 2013 -12%  
 Part-I Sem-II 2014 -29% & Part-II Sem-II 2014- 38%  
 Part I Sem I 2014 - 37% & Part II Sem I 2014 - Nil  
 Part I Sem II 2015 – 13% & Part II Sem II 2015- 33%  
 Part II Sem I 2015- Nil & Part I Sem I 2015 – 37%

**14. Programme-wise Student Teacher Ratio**

Masters in Rural Studies – 4: 1  
 Ph. D Programme: 7:3

(No. of students at present in MRS 3<sup>rd</sup> semester 07Nos. 1<sup>st</sup> semester 05 Nos.)

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

	sanctioned	filled	actual
Support Staff	04	Support Staff- 0 (Contractual Staff) Support Staff- 2 (Casual Staff)	Support Staff- 2 (Casual Staff)
Administrative Staff	01	1 (Permanent)	1 (Permanent)

**16. Research thrust areas as recognized by major funding agencies : Nil**

At present no research project is funded by external funding agency

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.** Nil

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration Nil b) International collaboration Nil

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.** Nil

20. **Research facility / centre with**

- State recognition Nil
- National recognition Nil
- International recognition Nil

21. **Special research laboratories sponsored by / created by industry or corporate bodies**  
Nil

22. **Publication:**

**Dr. Sudipta Sarkar (Assistant Professor & Head)**

- **Number of papers published in peer reviewed journals(national/international): 3**
- **Chapters in Books: 7**
- **Edited Books: 2**
- 1. Dr. Sudipta Sarkar(Ed.) “*Global Warming & Carbon Trading*”, Alpana Enterprise, Kolkata, 2011.
- 2. Dr. Sudipta Sarkar & Arghya Sukul (Ed.), “*Global Environment: Cotemporary Issues and Challenges*”, Alpana Enterprise, Kolkata, 2011.
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Science Directory, EBSCO host, etc.)
- Citation Index- range/ average
- SNIP
- SJR
- Impact Factor- range/average
- H-index

**Professor (Dr.) Udaybhanu Bhattacharyya**

**Publications:**

- **Number of papers published in peer reviewed journals(national/international): 10**
- **Chapters in Books: 3**
- **Edited Books: Nil**
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Science Directory, EBSCO host, etc.)
- Citation Index- range/ average
- SNIP
- SJR
- Impact Factor- range/average
- H-index

**Dr. Tapati Bhadra(Banerjee) (Assistant Professor)****Publications:**

- **Number of papers published in peer reviewed journals(national/international): 5**  
Banerjee, T. B., & Chanda, P. (2015). National Child Labor Policy' on Child Labors of West Bengal. *Asian Journal of Research in Social Science*, V (III).
  - **Chapters in Books: 2**
  - **Edited Books: Nil**
  - Books with ISBN with details of publishers
  - Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Science Directory, EBSCO host, etc.)
  - Citation Index- range/ average
  - SNIP
  - SJR
  - Impact Factor- range/average
  - H-index
23. **Details of patents and income generated** Nil
24. **Areas of consultancy and income generated** Nil
25. **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad** Nil
26. **Faculty serving in**
- a) National committees b) International committees c) Editorial Boards d) any other (please specify) Nil
27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**
- No such programme has been conducted in the Department. But two faculties participated in the Refresher Course /Orientation Programme in other Organisation/ University

**Dr. Sudipta Sarkar- Assistant Professor & Head**

Sl No.	RC/OP/Workshop	DATE	ORGANISER
1.	UGC Sponsored Refresher Course in Rural Development and Administration	January 2, 2003 to January 22, 2003	Institute of Studies in Population Agriculture and Rural Change, University of Kalyani
2.	UGC Sponsored Refresher Course in Commerce	November 3, 2003 to November 24, 2003	Department of Commerce, University of Kalyani
3.	UGC Sponsored Orientation Programme	July 26, 2004 To August 21, 2004	AcademicStaffCollege, University of Calcutta
4.	UGC Sponsored Refresher Course in Commerce	January 5, 2008 to January 25, 2008	AcademicStaffCollege, University of Burdwan
5.	UGC Sponsored Refresher Course in Business Studies	January 28, 2009 to February 18, 2009	AcademicStaffCollege, University of Calcutta
6.	International Workshop on Participatory Development	September 8, 2014 to September 15, 2014	Praxis Institute for Participatory Practices, New Delhi
7.	Special Course on Disaster Management March, 2015 (equivalent to Refresher Course)	March, 2015	AcademicStaffCollege, Jadavpur University



**Professor (Dr.) Udaybhanu Bhattacharyya**

Sl No.	RC/OP/Workshop	DATE	ORGANISER
1.	Course on Research Methods in Labour Studies	From 1 December 2014 to 12 December 2014	VVGNLI, Noida

**Dr. Tapati Bhadra (Banerjee) –Assistant Professor**

Sl No.	RC/OP/Workshop	DATE	ORGANISER
1.	UGC Sponsored Orientation Programme	November 10 <sup>th</sup> ,2014 to Dec 6 <sup>th</sup> 2014	AcademicStaffCollege, JadavpurUniversity

**28. Student projects**

- percentage of students who have done in-house projects including inter-departmental projects  
**Nil**

- percentage of students doing projects in collaboration with other universities /industry / institute  
3<sup>rd</sup> and 4<sup>th</sup> Semester Students prepare project reports based on their Visit/ internship in other institutes

Awards / recognitions received at the national and international level by

- Faculty **Nil**
- Doctoral / post doctoral fellows **Nil**
- Students **Nil**

**29. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.****30. Code of ethics for research followed by the departments****31. Student profile programme-wise:**

Name of the Programme (refer to question. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
Master of Rural Studies(2015-17)*	21	2 (Admitted )	3 (Admitted)	Continuing	
Master of Rural Studies(2014-16)*	200	16 Admitted-4 Continuing -1	27 Admitted-10 Continuing -6	Continuing	
Masters programme in Rural Development studies (2013-15)	56	19 Admitted-10 Continued -4	21 Admitted-11 Continued-7	4 (40% as per admission record)	7 (63.6% as per admission record)
PhD(KURET 2013)	42	5	1	Continuing	

**32. Diversity of students**

Name of the Programme (refer to question no. 4) MRS	% of students from the same University	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
2013-2015	36.36%	63.64%	Nil	Nil

**33. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Nil (No such facility of NET/SET or GATE etc. exist for this subject)

**34. Student progression**

Student progression	Percentage against enrolled
UG to PG	N/A
PG to M.Phil.	N/A
PG to Ph.D. 2013 (KURET) 05 ADMITTED	2013-2015 2012-2014- Nil, 2011-2013---- Nil, 2010-2012- Nil 2009-2011---7.7%
Ph.D. to Post-Doctoral	Nil
Employed	2014: 15 students were participated in Interview. 3 Students were selected for final interview (20%) 2015: 7 students were participated in Interview. 1 Students were selected for appointment (15%)
• Campus selection	
• Other than campus recruitment	
Entrepreneurs	

**35. Diversity of staff**

Percentage of faculty who are graduates	
Of the same university	1(33.3)
From other universities within the State	2(66.7)
From universities from other States from	0(0%)
Universities outside the country	0(0%)

**36. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Nil

Existing 3 faculty members were awarded PhD before joining in this Department.

**37. Present details of departmental infrastructural facilities with regard to**

- Library Nil Departmental Library has been shifted to University Central Library
- Internet facilities for staff and students

**Central internet facility of the university is not available in the department.**

Each faculty members have been allotted PCs and a sizeable portion of office work is being done by using computers. The Department is provided with broadband facilities. Students have also access in the computer and internet as available separately.

- Total number of class rooms **02**
- Class rooms with ICT facility Nil (Providing lecture facilities by using Overhead projector, Public Addressed System (PAS))
- Students' laboratories Nil
- Research laboratories **Nil**

**38. List of doctoral, post-doctoral students and Research Associates**

a. from the host institution/university

**Pradipta Dubey ; Dritiman Bhattacharyya ; Subhankar Mondal; Pritam Chanda; Pijus Kanti Ghosh**

b. from other institutions/universities

**Debolina Ghosh; Ganesh Chandra**

**39. Number of post graduate students getting financial assistance from the university.**

Name of the Scholarship	No. of Students	Sex		Year
		Male	Female	
Post Graduate Indira Gandhi Scholarship for Single Girl Child	2	0	2	2015
University Merit Scholarship (interdepartmental)	1	0	1	16 th January, 2015
Others	0	0	0	

**40. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

**No New programme has been development recently**

**41. Does the department obtain feedback from**

- i. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? **No**
- ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? **Yes**

**As a part of academic audit, the format as supplied by the university authority were handed over to the students and each student filled up the said format assessing the performance of individual teachers.**

- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback? **No**

**42. List the distinguished alumni of the department (maximum 10)****43. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Special lecture programme was organised by Department during Nov, 2013 to March, 2014 and details are given below:

Sl. No.	Resource Person/external experts	Date of lecture	Topic
1.	Professor Pulakesh Maity, Economic Research Unit, ISI, Kolkata.	20.11.13 21.11.13	1. Development of Statistical Information System for decentralised Planning. 2. A consensus development plan and identification of vulnerable areas.
2.	Professor Debabrota Basu, Professor in BCKV, Mohanpur	11.12.13	Participatory Rural Appraisal.
3.	Mr. R. K. Maity, WBCS-Exe (Retired), Formerly Joint Secretary, RD Deptt. Govt. of W.B.	29.11.13 06.12.13	ABC of Rural Area Management.
4.	Professor Amal Kumar Mallick, Formerly of BCKV.	10.12.13	Role of Social Sciences in Development initiatives
5.	Mr. Amitava Sarkar, Co-ordinator, DRCSC (non-profit society), Kolkata.	25.11.13 09.12.13	Sustainable Livelihood.
6.	Prof. Buddhadeb Chowdhury(Retired), Department of Anthropology, University of Calcutta.	21.03.14	Tribal Forest and Forest Development.

44. **UGC sponsored one day workshop on “Curriculum development in the light of job potential”** was organised by the department on March, 26, 2013.

45. **UGC sponsored one day workshop on “Capacity Building on Community Based Disaster Management”** was organized by the department on **March 2-3, 2015**

Apart from the students’ participation, renowned personalities from different academic institutions, Non-Govt. Organization and Government Organizations participated in the above mentioned workshop.

46. **List of the teaching methods adopted by the faculty for different programmes.**

Faculties are using the following teaching methods

- Lecture
- PPT presentation by using overhead projector, Public Addressed System(PAS)
- Field Practical

47. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Through continuous evaluation, assignments work, field activity and project work.

48. **Highlight the participation of students and faculty in extension activities. Previously students were involved in some education survey work of reputed NGOs.**

Give details of “beyond syllabus scholarly activities” of the department. Lecture programme by distinguished academicians and professional in the field of rural development and management

49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

No such accreditation has been made by other agencies.

50. **Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

N/A

51. **Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths**

1. Multidisciplinary exposure in the course curriculum
2. Good record of employment in NGO sector
3. Good rapport with some local level NGOs
4. Limited number of students
5. Seminar/workshop

**Weakness**

1. Inadequate number of teaching faculty and dependence on Guest Lecturer
2. Weak Computer Lab Facility
3. Limited information about the course among the students
4. No NET/SET examination facility by UGC or WBCSC
5. No UG courses

**Opportunities**

1. Getting academic assistance from ISGP, Nadia
2. Getting academic assistance from SIPRD, Kalyani

**Challenges**

1. Opening of UG Course
2. Organising Training for external agencies
3. To get students aware about the course

**52. Future plans of the department.**

1. Seminar and workshop.
2. Lecture programme by distinguished academicians in the field of rural development and management.
3. Research and Consultancy.
4. Training (if sponsored by external agencies like SIPRD or NIRD).
5. Extensions work to nearby villages.
6. Opening of M.Phil Course.

# DEPARTMENT OF SANSKRIT



1. **Name of the Department:** Sanskrit
2. **Year of establishment:** 2011
3. **Is the Department part of a School/ Faculty of the University:** Faculty Arts and Commerce
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., D.Sc., D.Lit. etc.):** PG
5. **Interdisciplinary programmes and departments involved :** NIL
6. **Courses in collaboration with other universities, industries, foreign institutions etc. :** NIL
7. **Details of programmes discontinued , if any, with reasons:** NIL
8. **Examination System :**  
**Annual/Semester/Trimester/Choice Based Credit System:** Semester CBCS
9. **Participation of the department in the course offered by other departments:** NIL
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/ Asst. Professors/ others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	NIL	Nil	Nil
Associate Professors	NIL	Nil	Nil
Asst. Professors	01	01	01
Others (adjunct)	02	02	02

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Anindya Bandyopadhyay	M.A., NET, Ph.D.	Assistant Professor, Head of the Department	<i>Dharmatâstra&amp;Nîtiâtâstras</i> (Ancient Indian Law & Society)	Around 4 Months	NIL

12. **List of senior Visiting Fellows, adjunct, emeritus professors :**

Sl. No.	Year	Teacher
01.	2014-15 June – December, 2014	1. Sri. Anindya Bandyopadhyay (Coordinator, Contractual Full-Time Teacher) 2. Dr. Bimal Goswami (Guest Faculty) 3. Smt. Sandhya Sarkar (Guest Faculty) 4. Dr. Nikhilesh Chakraborti (Guest Faculty) 5. Dr. Subhra Ghosh (Guest Faculty) 6. Dr. Pampa Chakraborti (Guest Faculty) 7. Sri. Prasanta Dey (Guest Faculty) 8. Sri. Somnath Sarkar (Guest Faculty) 9. Dr. Hemanta Bhattacharya (Guest Faculty)
02.	2015-16 January – June, 2015	1. Dr. Kuheli Biswas (Coordinator, Assistant Professor, Dept. of Philosophy)

Sl. No.	Year	Teacher
		2. Dr. Anindya Bandyopadhyay (Guest Faculty) 3. Dr. Bimal Goswami (Guest Faculty) 4. Smt. Sandhya Sarkar (Guest Faculty) 5. Dr. Nikhilesh Chakraborti (Guest Faculty) 6. Dr. Subhra Ghosh (Guest Faculty) 7. Dr. Pampa Chakraborti (Guest Faculty) 8. Sri. Somnath Sarkar (Guest Faculty) 9. Dr. Hemanta Bhattacharya (Guest Faculty)
03.	2015 – 16 July – December, 2015	1. Dr. Anindya Bandyopadhyay (HOD, Assistant Professor, Dept. of Sanskrit) 2. Smt. Sandhya Sarkar (Guest Faculty) 3. Dr. Subhra Ghosh (Guest Faculty) 4. Dr. Pampa Chakraborti (Guest Faculty) 5. Sri. Somnath Sarkar (Guest Faculty) 6. Dr. Hemanta Bhattacharya (Guest Faculty) 7. Sri. Sovan Chakraborty (Contractual Full-Time Teacher) Date of Joining (14/12/2015) 8. Dr. Sujata Banerjee (Contractual Full-Time Teacher) Date of Joining (16/12/2015)

### 13. Percentage of classes taken by temporary faculty- programme-wise information:

Sl. No.	Year	Teacher	1 <sup>st</sup> Sem	3 <sup>rd</sup> Sem
01.	2014-15 June – December, 2014	1. Smt. Sandhya Sarkar (Guest Faculty)	42.5% [17/40 Classes]	42.5% [17/40]
		2. Dr. Nikhilesh Chakraborti (Guest Faculty)	NIL	90% [36/40]
		3. Dr. Subhra Ghosh (Guest Faculty)	NIL	75% [30/40]
		4. Dr. Pampa Chakraborti (Guest Faculty)	NIL	37.5% [15/40]
		5. Sri. Prasanta Dey (Guest Faculty)	95% [76/80 Classes]	NIL
		6. Sri. Somnath Sarkar (Guest Faculty)	NIL	70% [28/40]
		7. Dr. Hemanta Bhattacharya (Guest Faculty)	75% [30/40 Classes]	75% [30/40]

Sl. No.	Year	Teacher	2 <sup>nd</sup> Sem	4 <sup>th</sup> Sem
02.	2015-16 January – June, 2015	1. Dr. Anindya Bandyopadhyay (Guest Faculty)	85% [34/40 Classes]	65% [26/40]
		2. Dr. Bimal Goswami (Guest Faculty)	100% [40/40 Classes]	100 % [40/40]
		3. Smt. Sandhya Sarkar (Guest Faculty)	47.5% [19/40 Classes]	50% [20/40]
		4. Dr. Nikhilesh Chakraborti (Guest Faculty)	65% [26/40 Classes]	65% [26/40]
		5. Dr. Subhra Ghosh (Guest Faculty)	67.5% [27/40 Classes]	22.5% [09/40]
		6. Dr. Pampa Chakraborti (Guest Faculty)	NIL	62.5% [25/40]
		7. Sri. Somnath Sarkar (Guest Faculty)	15% [06/40 Classes]	97.5% [39/40]
		8. Dr. Hemanta Bhattacharya (Guest Faculty)	70% [28/40 Classes]	100% [40/40]
		9. Sri Prasanta Dey (Guest Faculty)	100% [40/40 Classes]	100% [40/40]
		10. Sri Biplab Kotal (Guest Faculty)	87.5% [35/40 Classes]	90% [36/40]



**14. Programme-wise Student Teacher Ratio :**

SL No.	Year	Student Teacher Ratio
01.	2014 – 15	M.A. 1 <sup>st</sup> Year (1 <sup>st</sup> & 2 <sup>nd</sup> Semester) : 35:05 M.A. 2 <sup>nd</sup> Year (3 <sup>rd</sup> & 4 <sup>th</sup> Semester) : 10:03
02.	2015 – 16	M.A. 1 <sup>st</sup> Year (1 <sup>st</sup> & 2 <sup>nd</sup> Semester) : 35:06 M.A. 2 <sup>nd</sup> Year (3 <sup>rd</sup> & 4 <sup>th</sup> Semester) : 35:05

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : NIL**

**16. Research thrust areas as recognized by major funding agencies : NIL**

**17. Number of the faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grant received project-wise :NIL**

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration: NIL                      b) International collaboration: NIL

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DEP; DBT, ICSSR, AICTE, etc; total grants received. NIL**

**20. Research facility / centre with**

- state recognition: NIL
- national recognition: NIL
- international recognition: NIL

**21. Special research laboratories sponsored by / created by industry or corporate bodies: NIL**

**22. Publications:**

- Number of papers published in peer reviewed journals (national / international): 01 (National)
- Monographs: NIL
- Chapters in Books: 02
- Edited Books: NIL
- Books with ISBN with details of publishers: NIL
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index - range / average: NIL
- SNIP: NIL
- SJR: NIL
- Impact Factor - range / average: NIL
- h-index: NIL

**23. Details of patents and income generated: NIL**

**24. Areas of consultancy and income generated: NIL**

25. Faculty selected nationality / internationally to visit other laborites / institutions / industries in India and abroad: NIL

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify): NIL

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): NIL

28. Students projects

- Percentage of students who have done in-house projects including inter-departmental projects : NIL
- Percentage of students doing projects in collaboration with other universities / industry / institute : NIL

29. Awards / recognition received at the national and international level by

- Faculty: NIL
- Doctoral / post doctoral fellows: NIL
- Students: NIL

30. Seminar/Conference/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

31. Code of ethics for research followed by the departments

32. Students profile programme-wise: From 2011

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.A.	Unknown	18	88	100	100

33. Diversity of Students: From 2011

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
M.A.	92.15%	07.85%	NA	NA

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other comparative examinations? Give details category-wise: 03 NET (2 OBC + 1 SC)

35. Students progression

Students progression	Percentage against enrolled
UG to PG	Unknown
PG to M.Phil.	NIL
PG to Ph.D.	NIL
Ph.D. to Post-Doctoral	NIL

Students progression	Percentage against enrolled
Employed <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	NIL
Entrepreneurs	NIL

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	NIL
from other universities within the State	NIL
from universities from other States from	NIL
universities outside the country	NIL

### 37. Number of faculty who were awarded M.Phil, Ph.D., D.Sc., and D.Lit. during the assessment period: NIL

### 38. Present details of departmental infrastructural facilities with regard to

- Library: NIL
- Internet facilities for staff and students: NIL
- Total number of class rooms: 03
- Class rooms with ICT facility: NIL
- Students' laborites: NIL
- Research laboratories: NIL

### 39. List of doctoral, post-doctoral students and Research Associates

- from the host institution/university: NIL
- from other institutions/universities: NIL

### 40. Number of post graduate students getting financial assistance from the university.

Just now, none of the students are getting any financial assistance from the University.

### 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The Department follows the direction & suggestion of the PG Board of Studies, formed with some well-known Professors of Sanskrit from various Universities.

### 42. Does the department obtain feedback from? Yes

- faculty on curriculum as well as teaching-learning-evaluation? If, yes how does the department utilize the feedback? Continuous interaction in Departmental Committee
- students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Student and Teacher interaction
- alumni and employers on the programmes offered and how does the department utilize the feedback? NA

### 43. List the distinguished alumni of the department (maximum 10): NA

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- **Symposium: “Swami Vivekananda and His Thoughts – A Fresh Appraisal”** held on 25.03.2013  
Organized Jointly by the Department of Philosophy & Sanskrit

**Speakers:**

1. **Prof. Nikhilesh Chakraborty**, Retd. Professor, Ranaghat College.
  2. **Prof. Mrinal Kanti Chakraborty**, Retd. Professor, Berhampore College.
  3. **Prof. Tapan Kumar Chakrabarti**, Retd. Professor, Jadavpore University.
  4. **Prof. Nabanarayan Bandyopadhyay**, Director, School of Vedic Studies, Rabindrabharati University.
  5. **Swami Dibyagunananda**, Vice-Principal, Belur R.K. Mission Sikshan Mandir
- One day International Seminar on “One Day International Seminar On “LOGIC, PHILOSOPHY OF MATHEMATICS & PHILOSOPHY OF LANGUAGE” to Celebrate “World Philosophy Day” Organized by Department of Philosophy, University of Kalyani In Collaboration with Department of Sanskrit, University of Kalyani on 23/12/2015
  - **Invited Lectures:**
    1. **Invited Lecture on *Sāmagānam*** delivered by Professor Sougata Mukherjee, Assistant Professor, Department of Sanskrit, Bardhaman University on 06/05/2014.
    2. **Invited Lecture on ‘Traditional Legal Interpretation vs. Ancient Indian Society (*Smṛtimīmāṃsā*)’** by Dr. B. K. Swain, Professor, Jagannath Sanskrit University, Shri Vihar, Puri, Odhisha on 14/05/2014 (organized jointly by the department of Sanskrit & Philosophy).
    3. **Invited Lecture on “Radhakrishnan: Life & Work”** by Dr. Gopal Chandra Khan, Retd. Professor, Department of Sanskrit, Burdwan University & Sri Sanat Kar, Retd. Professor, Beldanga College on 05/09/2014 to celebrate teacher’s day (organized jointly by the department of Sanskrit & Philosophy).

**45. List the teaching methods adopted by the faculty for different programmes.**

The department generally follows two methods i.e.

- a) Lecture
- b) Discussion with Students

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are mentioned?**

Through monitoring and evaluation of students performance in class and examination.

**47. Highlight the participation of students and faculty in extension activities.**

**48. Give details of “beyond syllabus scholarly activities” of the department.**

Departmental students are always kept engaged themselves with various cultural activities. They arrange various cultural programmes to celebrate Teacher’s Day, *Navin-varan*, Sanskrit Day, World Philosophy Day etc.

**49. State whether the programme / department is accredited / graded by other agencies? If yes, give details. NA**

**50. Briefly highlight the contribution of the department in generating new knowledge, basic or applied.**

At present the Department is laying special focus on *Kāvya* (Sanskrit Literature) & *Darśana* (Indian Philosophy) only. But from the year next, the Department will also focus on *Dharmaśāstra* Studies (Ancient Indian Law & Society) as well.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Four major strengths of the department**

- i) Assistance of Department of Philosophy
- ii) Efficient Non-Teaching and Administrative staffs
- iii) Increasing Students' demand
- iv) University sanctioned Rs. 2,50,000/- to purchase the books & journals for the newly functional department. The department utilized the entire fund for this purpose.

**Five major weakness of the**

- i) Department does not have any substantive teaching post.
- ii) Department does not have any casual or substantive office and administrative staffs. Administrative & Official staffs allotted for the department of Philosophy help efficiently to run the Sanskrit Department properly.
- iii) Department does not have any computer for the academic faculty and for the students' use.
- iv) Pass-out students of the department continuously asking for opening the M. Phil. and Ph.D. programme, but department could not able to do so due to insufficient teaching & academic staffs.
- v) Department does not have sufficient room for any extra classes and for any special papers or beyond syllabus activity.

**Five Major opportunities of the department**

- i) All the branches of Indic study depend on Sanskrit, as most of the primary literatures were in Sanskrit from which a student of Indology or South Asian History or Sociology has to depend on it.
- ii) To reconstruct the early history of ancient India historian has to depend on various texts and Inscriptions, most of which written in Sanskrit.
- iii) Students of Sanskrit can join different field for their research and higher studies. A student can take the subject as their elective paper in UPSC, IAS, WBCS examination etc.
- iv) There are so many vacancies in the Schools and colleges in Sanskrit. Students have the opportunity for their future recruitment.

**52. Future plans of the department.**

Subject to filling up the teaching posts and installation of Departmental office, departmental library, and proper accommodation for the faculty members, this department takes up for future projection, the introduction of M.Phil., Ph.D. programme, Publication of departmental journal annually, holding for state & National Level seminar every year and to invite at least two visiting professor per year for enriching the students as well as the faculties.

**Declaration by the Head of the Institution**

I certify that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Signature of the Head of the institution  
with seal:

Date and Place:



# DEPARTMENT OF STATISTICS



- 1 **Name of the Department** Department of Statistics, University of Kalyani
- 2 **Year of establishment** 1973
- 3 **Is the Department part of a School/Faculty of the university?**  
Yes, Faculty of Science
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt., etc.)** 2-Year M.Sc, 5-Year Integrated M.Sc, Ph.D.
- 5 **Interdisciplinary programmes and departments involved** Nil
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc.**  
Nil
- 7 **Details of programmes discontinued, if any, with reasons** Nil
- 8 **Examination System: Annual/Semester/Trimester/Choice Based Credit System**  
**Semester with course credit system from 2014-15**
- 9 **Participation of the department in the courses offered by other departments**  
Teachers used to take classes in Depts. of Microbiology,  
Environmental Management, Chemistry and Rural Development.
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
<b>Professor</b>	1	1	5
<b>Associate Professors</b>	2	1	1
<b>Asst. Professors</b>	6	-	-
<b>Others</b>			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr Rajendranath Panda	M.Sc, Ph. D.	Professor	Design of Experiments	39	nil
Dr Premadhis Das	M.Sc, Ph. D.	Professor	Design of Experiments	36	1
Dr Nimai Kumar Chandra	M.Sc, Ph. D.	Professor	Reliability Analysis	36	nil
Dr Debidas Bandyopadhyay	M.Stat, Ph. D.	Professor	Econometrics	31	nil
Mr M. Deekshithulu (Retd.)	M.Sc.	Assoc. Professor	Asymptotic Theory of Estimation	28	nil
Dr Chandranath Pal	M.Sc, Ph. D.	Professor	Statistical Inference	25	1
Dr Sisir Kumar Samanta	M.Sc, Ph. D.	Assoc. Professor	Statistical Inference	15	2

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors** Nil

**13. Percentage of classes taken by temporary faculty – programme-wise information**

5-Year Int. M.Sc. Sem 1: 28.6%

5-Year Int. M.Sc. Sem 3: 50%



**14. Programme-wise Student Teacher Ratio (For current academic Year)**

5-Year Int. M.Sc. Sem 1	:	5:2
2-Year M.Sc.	:	4:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual**

Technical: Sanctioned-4, Filled-1, Actual-1  
 Administrative: Sanctioned-2, Filled-1, Actual-1

**16. Research thrust areas as recognized by major funding agencies**

Design of Experiments, Statistical Inference, Econometrics, Multivariate Analysis, Reliability Analysis

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Nil

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration Nil b) International collaboration Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Nil

**20. Research facility / centre with**

Nil

- a. state recognition
- b. national recognition
- c. international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies**

Nil

**22. Publications:**

- \* Number of papers published in peer reviewed journals (national/ international) 9
- \* Monographs 1
- \* Chapters in Books
- \* Edited Books
- \* Books with ISBN with details of publishers
- \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database -International Social Sciences Directory, EBSCO host, etc.)
- \* Citation Index – range / average \*SNIP
- \* SJR
- \* Impact Factor – range / average \*h-index

**23. Details of patents and income generated**

Nil

**24. Areas of consultancy and income generated**

Sampling Inspection, Voluntary service

**25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad**

Nil

**26. Faculty serving in**

b) National committees b) International committees c) Editorial Boards d) any other (please specify) Nil

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). Nil****28. Student projects**

a. percentage of students who have done in-house projects including inter-departmental projects Nil

b. percentage of students doing projects in collaboration with other universities

1. industry / institute Nil

**29. Awards / recognitions received at the national and international level by Nil**

c. Faculty

d. Doctoral / post doctoral fellows

e. Students

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. (Last 5 years)**

- 64<sup>th</sup> Annual Conference of the Indian Society of Agricultural Statistics, organized jointly by Dept. of Statistics, KU and Dept. of Agricultural Statistics, Bidhan Chandra Krishi Viswavidyalaya, funded by KU and BCKV, December 3-5, 2010 (National).
- One-day Workshop on Official Statistics, in collaboration with NASA, MoSPI, Govt. of India, funded by NASA, March 1, 2013 (National)
- Seminar on Optimal Covariates Designs and Their Applications, funded by DST-PURSE Programme of KU, March 28, 2014 (National).

**31. Code of ethics for research followed by the departments** Code of ethics is followed as prescribed time to time by the University**32. Student profile programme-wise: (For the current academic year)**

Name of the Programme (refer to question no. 4)	Applications received	Selected( considering new admissions and left-outs)		Pass percentage	
		Male	Female	Male	Female
2-Year M.Sc.	106	10	14	Exam not yet held	Exam not yet held
5-Year Int. M.Sc.	76	13	2	Exam not yet held	Exam not yet held

**33. Diversity of students (For the Current academic session)**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
2-Year M.Sc.	12.5	87.5	-	-

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

2 students cleared NET

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	-
PG to M.Phil.	<5%
PG to Ph.D.	<5%
Ph.D. to Post-Doctoral	-
Employed (For the last academic session)	
<input type="checkbox"/> Campus selection	10%
<input type="checkbox"/> Other than campus recruitment	20%
Entrepreneurs	

**36. Diversity of staff :**

Percentage of faculty who are graduates	
of the same university	100
From other universities within the State	
From universities from other States from	
Universities outside the country	

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period**

Nil

**38. Present details of departmental infrastructural facilities with regard to**

- a. Library **Books shifted to the Central Library very recently**
- b. Internet facilities for staff and students **8 computers with Internet facility**
- b) Total number of class rooms **5**
- c) Class rooms with ICT facility **Nil**
- d) Students' laboratories **1**
- e) Research laboratories **Nil**

**39. List of doctoral, post-doctoral students and Research Associates**

- a. from the host institution/university
  - Mr. G. Sinha, Part time doctoral student
  - Mr. S. Jana, Full-time doctoral student
- b. from other institutions/universities
  - Ms. M. Mandal, Part time doctoral student

**40. Number of post graduate students getting financial assistance from the university: 1**

41. **Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.** No

42. **Does the department obtain feedback from**

i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, recently the syllabi have been revised based on the feedback.

ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes, teachers discuss the matters among themselves and take action accordingly.

iii. alumni and employers on the programmes offered and how does the department utilize the feedback? No

43. **List the distinguished alumni of the department (maximum 10)**

Dr Debesh Roy

Prof Tapabrata Maiti

Dr Samarjit Das

Dr Amitava Saha

44. **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- Prof C. A. Murthy, an eminent scientist of the Indian Statistical Institute, Kolkata, delivered a talk on **Dimensionality Reduction** on April 23, 2013.
- Prof Tapabrata Maiti of Michigan State University and also an ex-student of this Department delivered a talk on **Scope of Higher Studies in USA** on March 28, 2014.
- Prof Bikas Kumar Sinha, Retired Professor of I.S.I, Kolkata, delivered talks on two interesting topics: **Alice in Diceland – A Magical Display of Basic Probability and Statistical Inference** and **Into the Mysterious World of the Binomial Parameter ( $p$ ): Some Probabilistic and Inferential Aspects** on September 5, 2014.

45. **List the teaching methods adopted by the faculty for different programmes.**

Apart from using black boards, teachers often use LCD projectors in demonstrating their lectures.

46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

By taking stock of the results of the students and their achievements in getting jobs, teachers take action accordingly.

47. **Highlight the participation of students and faculty in extension activities.**

Nil

48. **Give details of “beyond syllabus scholarly activities” of the department.**

Two students took part in an orientation programme on Official Statistics organized by NASA.

49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** No

50. **Briefly highlight the contributions of the department in generating new knowledge,**

basic or applied.

The Department always aims at imparting teaching on theoretical Statistics along with their applications. Students, after passing from this Department, get absorbed in services on diverse fields like Marketing, Banking, Information Technology and Software. A good number of students are working in RBI, some with high official ranking, where they apply their knowledge and innovative thoughts. Some students are in academic institutions, both in India and abroad.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- Good Faculty
- Course-content
- Motivation to produce good students
- Student-teacher relationship
- Exposure to some statistical software

**Weaknesses:**

- Lack of sufficient number of computers
- Inadequacy of number of faculty
- Scope of campus recruitment is limited
- No collaboration with foreign universities
- Very few students go for research work

**Opportunities:**

- Collaboration with Calcutta University, Indian Statistical Institute, Bidhan Chandra Krishi Viswavidyalaya
- Interdepartmental collaborations
- Central Library in the vicinity of the campus
- Scope for interdisciplinary research
- Scope to conduct workshops and seminars under DST-PURSE programme

**Challenges:**

- To maintain good academic standard
- To produce useful students with sound statistical background
- To cope with changing social needs
- To properly disseminate knowledge for the cause of mankind
- To emerge as a promising statistics department of the country

**52. Future plans of the department.**

- To conduct more seminars/conferences
- To arrange for campus recruitments by more companies
- To introduce new special papers



# DEPARTMENT OF VISUAL ARTS



- 1 **Name of the Department:** VISUAL ARTS
- 2 **Year of establishment:** 2008
- 3 **Is the Department part of a School/Faculty of the university?** The department is under the Faculty of Music and Fine Arts of the University.
- 4 **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** MFA – PG Course; Ph.D
- 5 **Interdisciplinary programmes and departments involved:** None
- 6 **Courses in collaboration with other universities, industries, foreign institutions, etc.** None
- 7 **Details of programmes discontinued, if any, with reasons:** None
- 8 **Examination System:** Semester
- 9 **Participation of the department in the courses offered by other departments :** None
- 10 **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor			
Associate Professors	1	1	1
Asst. Professors	2	2	2
Others			

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr.Bibekananda Mukherjee	BVA, MVA, Ph.D	Assistant Professor	Painting	3 years 8 months	5
Ritendra Roy	BVA, MFA	Associate Professor	Painting	3 years 5 months	x
Khokon Raut	BFA, MVA	Assistant Professor	Painting	3 years 4 months	x

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors:** None
13. **Percentage of classes taken by temporary faculty – programme-wise information** For practical studio-based work classes it is 25%. For the theoretical classes it is 100%
14. **Programme-wise Student Teacher Ratio** There are 42 Students in two semesters in 2015. For practical classes(studio-based) the total ratio is 42:4. There are 4 teachers for practical classes. Hence the ratio will be 10:1 For theory classes the ratio is 42:2. There are 2 teachers for theory classes. Hence the ratio will be 21:1.

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual 1 (one) - as allotted by University
16. Research thrust areas as recognized by major funding agencies None
17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. None
18. Inter-institutional collaborative projects and associated grants received None
- a) National collaboration b) International collaboration
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. None
20. Research facility / centre with None
- state recognition
  - national recognition
  - international recognition
21. Special research laboratories sponsored by / created by industry or corporate bodies None
22. Publications and Exhibitions: Enclosed as attachments. (three attachments).
- \* Number of papers published in peer reviewed journals (national / international)
  - \* Monographs
  - \* Chapters in Books \* Edited Books
  - \* Books with ISBN with details of publishers
  - \* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - \* Citation Index – range / average
  - \* SNIP
  - \* SJR
  - \* Impact Factor – range / average
  - \* h-index
23. Details of patents and income generated None
24. Areas of consultancy and income generated None
25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad None
26. Faculty serving in
- c) National committees b) International committees c) Editorial Boards d) any other (please specify) None
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). None



## 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects 100%. All the department students participate and organize a few projects each year. These are the Traditional art workshop project. Art Fair, Seminar, Inter-University painting workshop.
- percentage of students doing projects in collaboration with other universities/ industry / institute None

## 29. Awards / recognitions received at the national and international level by None

- Faculty
- Doctoral / post doctoral fellows
- Students

## 30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

### Seminar

**Should Fine Art be made a compulsory subject within the school curriculum education?** There were distinguished speakers who deliberated upon this subject. Prof.Jogen Chowdhury, Rajya Sabha Member, Govt. of India and illustrious artist and former Principal, Kala Bhavana, Santiniketan spoke in detail from his working experience. Prof.Soumik Nandy Majumder, Assistant Professor, Department of History of Art, Santiniketan and Arunima Chowdhury, eminent artist and educationist were the other speakers. The audience comprising of students from various colleges and other interested persons made the interaction very engaging. Source of funding received from the University.

### Workshop:

**National Workshop in association with the Lalit Kala Akademi, Regional Centre under the Ministry of Culture, Govt. of India** selected our Department to collaborate for a National workshop inviting artists from different places of the eastern region. Prof.Manoj Sarkar, Regional Secretary, Lalit Kala Akademi, Govt. of India and our Vice-Chancellor were present in the opening of the event. Artists from outside the town also visited the site welcomed the idea. This was a joint painting camp comprising of selected traditional and contemporary artists. The participants stayed at the University for the entire period of the workshop and interacted with the local community while doing their own paintings. The works produced by the artists have been in the collection of the Lalit Kala Akademi. Source of funding was the Ministry of Culture, Govt. of India.

Traditional Art workshop organized by the Department comprising of the method of Galar Putul. Source of funding received from the University.

Inter-University painting workshop organized by the Department and funded by the University.

## 31. Code of ethics for research followed by the departments Department follows the same ethics as prescribed by the University.

## 32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
MFA - 2015	24	15	4	62.5	16.6
Ph.D – 2015	15	4	1	26.6	6.6
MFA - 2014	38	11	10	28	26
MFA - 2013	63	8	4	12.6	6
MFA - 2012	26	12	6	46	23

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
MFA	None	100	5.2	None
Ph.D	20	80	None	None

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations?** Give details category-wise. One student has cleared NET examination this year(2015)

**35. Student progression**

Student progression	Percentage against enrolled
UG to PG	x
PG to M.Phil.	x
PG to Ph.D.	1
Ph.D. to Post-Doctoral	x
Employed	
<input type="checkbox"/> Campus selection	
<input type="checkbox"/> Other than campus recruitment	Approximately 45% of students have been recruited in the last 4 years in different educational colleges as art teachers.
Entrepreneurs	Students passing out from the department have been engaged in doing exhibitions on their own and selling their works through galleries.

**36. Diversity of staff**

- a) Percentage of faculty who are graduates of the same university: None  
 b) from other universities within the State: 100%  
 c) from universities from other States: none  
 d) from universities outside the country: none

37. **Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period** None

**38. Present details of departmental infrastructural facilities with regard to**

- a) Library A reading room is present attached with the office.  
 b) Internet facilities for staff and students Yes  
 c) Total number of classrooms 4  
 d) Class rooms with ICT facility none  
 e) Students' laboratories none  
 f) Research laboratories none

**39. List of doctoral, post-doctoral students and Research Associates**

- a) from the host institution/university: none
- b) from other institutions/universities: none

**40. Number of post graduate students getting financial assistance from the university:** none

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.** none

**42. Does the department obtain feedback from**

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? The faculty sits together and assesses the performance of the students through interactive sessions. An internal evaluation of students is conducted every three months.
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? We receive feedback from the students after every semester. Teachers and students sit together and interact about work done and future areas of development.
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? A brief feedback is obtained from the alumni during the reunion function.

**43. List the distinguished alumni of the department (maximum 10) The department is new and the students passing out are gradually making a mark in the field.**

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.** In the past 4 years the department has organized different programmes for the enrichment of the academic curriculum. These are the Annual art exhibitions (both in-campus and outside campus), Art Fair, Seminars, Traditional workshop, Inter-University painting workshop. For all these events highly acclaimed artists and experienced resource persons have been invited to impart their experience.

**45. List the teaching methods adopted by the faculty for different programmes.** Studio-based practical work, Theoretical lessons and interactive discussions, Field work through Study Tour at historical places. These are the main areas of teaching methods adapted.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** Internal reviews are periodically made by the class teachers. This is also supplanted by the assessment made by the external experts invited by the department. Exhibition of the works of the students is also a part of this objective. Workshop projects are organized where the students are required to participate. This gives a qualitative re-assessment regarding the works they do.

**47. Highlight the participation of students and faculty in extension activities.** The various departmental programmes and activities are taken up as the extension activities where students and teachers take active part.

**48. Give details of “beyond syllabus scholarly activities” of the department.** none

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** none

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. All the activities undertaken by the department are applied to the societal cause and enhancement of knowledge. Imparting of practical knowledge along with cultural interactions through group participations are some of the ways of contributing to the larger areas of concern.**

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.****Strengths :**

Constructive academic curriculum which adheres to the contemporary educational demands. Very good faculty with considerable professional expertise.

**Weakness:**

Shortage of faculty members including office staff. The department does not have a building of its own. Also related departments of this kind should be there for mutual understanding.

**Opportunity:**

Creating an environment of cultural awareness through the practical experiments and discussions.

- 52. Future plans of the department.** Development of faculty infrastructure through own building. Creations of more related departments within the faculty structure. Generating more funds through the help of various projects . Taking the art exhibitions of the students and the faculty to more places and galleries outside the state. Enlarged studio spaces are a prime necessity. This can be done through the proper development of a building.



The logo of Kalyani University is a square emblem. At the top, a horizontal band contains the word 'KALYANI' in capital letters, flanked by two circular symbols containing a stylized cross. The central part of the emblem features a shield with a crown on top, set against a background of two palm trees. At the bottom, another horizontal band contains the word 'UNIVERSITY' in capital letters, also flanked by the same circular symbols.

# DEPARTMENT OF ZOOLOGY

1. **Name of the Department: Zoology**
2. **Year of establishment: 1961**
3. **Is the Department part of a School/Faculty of the university?: Yes**
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.): PG, Ph.D, D.Sc.**
5. **Interdisciplinary programmes and departments involved: Yes**
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.: NIL**
7. **Details of programmes discontinued, if any, with reasons: N.A**
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System: CBCS**
9. **Participation of the department in the courses offered by other departments: NIL**
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
<b>Professor</b>	2	1	5
<b>Associate Professors</b>	5	4	1
<b>Asst. Professors</b>	11	4	4
<b>Others</b>			

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Speciali-zation	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Prof. D. Mukherjee	M.Sc, Ph.D	Professor	Endocrinology & Reproductive Biology	34 Yrs	04
Prof. A. Kaviraj	M.Sc, Ph.D	Professor	Fish & Fisheries	31 Yrs	04
Prof. P.K. Bandyopadhyaya	M.Sc, Ph.D	Professor	Parasitology	27 Yrs	08
Prof. D. Nath	M.Sc, Ph.D	Professor	Cytogenetics & Molecular Biology	13 Yrs	02
Prof. A. K. Panigrahi	M.Sc, Ph.D	Professor	Fish & Fisheries	16 Yrs	06
Dr. K. Bhadra	M.Sc, Ph.D	Assistant Professor	Entomolgy	6 Yrs	-
Dr. Kaushik Mandol	M.Sc, Ph.D	Associate Professor	Fish & Fisheries	02 months	-
Dr. Subhankar Kumar Sarkar	M.Sc, Ph.D	Assistant Professor	Entomolgy	02 months	-
Dr. Laisharam Pradeepkumar Singh	M.Sc, Ph.D	Assistant Professor	Cytogenetics & Molecular Biology	02 months	-
Dr. Arunima Biswas	M.Sc, Ph.D	Assistant Professor	Endocrinology & Reproductive Biology	1.5 months	-

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:****Emeritus Professor – 01 (Prof. A.R.Khuda-Buksh****13. Percentage of classes taken by temporary faculty – programme-wise information****Programme-wise Student Teacher Ratio: 10:1 Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

	Sanctioned	Filled	Actual
academic support staff (technical)	08	04	04
administrative staff	04	01	01

**14. Research thrust areas as recognized by major funding agencies:**

1. Fish Parasitology
2. Fish Toxicology
3. Fish Physiology
4. Insect Physiology

**15. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:**

Sl. No.	Name of Faculty	Total Grant	Funding Agency	Project Title
1	Prof. P. K. Bandopadhyay	03	UGC	Studies on some protozoan, bacterial and fungal diseases of common edible fishes of West Bengal, with emphasis on their control by using plant biomolecules.
			DST, GOI	Studies on the identification and control of the larval stages of <i>Culex visnui</i> , the potent vector of Japanese encephalitis using medicinal plant biomolecule.
			URS	Ornamental fish management practice - an attempt to identification and control of some protozoan as well as bacterial diseases causing harm to ornamental fish by herbal extracts.
2	Prof. D. Mukhopadhyay	02	DST, GOI	Cloning and developmental expression of cytochrome P450 aromatase gene (Cyp19) in a major carp <i>Labeo rohita</i>
			URS	Involvement of 17 $\beta$ -estradiol and its membrane receptor, G-protein coupled receptor 30 (GPR30) in regulation of oocyte maturation in a common carp <i>Cyprinus carpio</i>
3	Prof. (Mrs.) D. Nath	01	URS	
4	Prof. A. K. Panigrahi	03	WBBB	“Study on the fish faunal Biodiversity with ecological status of water bodies of Nadia & North 24 Parganas districts of West Bengal”
			DST, WB	“Studies on the ecological status of East Kolkata with special reference to effect of

Sl. No.	Name of Faculty	Total Grant	Funding Agency	Project Title
				tannery effluent on fish food organisms”
			URS	
5	Dr. (Mrs.) K. Bhadra	02	CSIR	Therapeutic potential and cytotoxicity of DNA binding B-Carbolin group of alkaloids: Biophysical and biological perspectives.
			URS	Quadruplex DNA structure and its interaction with biologically important alkaloids.

**TOTAL GRANTS RECEIVED – Rs. 1,00,00,000/- (Approx.)**

**16. Inter-institutional collaborative projects and associated grants received: NIL**

a) National collaboration

b) International collaboration

**17. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:**

1. DST FIST: Rs. 48,00,000/-
2. UGC – SAP: Rs. 59,00,000/-
3. DST (WB & India): Rs. 18,42,440/-

**18. Research facility / centre with**

- a. state recognition
- b. national recognition ✓
- c. international recognition

**19. Special research laboratories sponsored by / created by industry or corporate bodies: NIL**

**20. Publications:**

- ❖ Number of papers published in peer reviewed journals (national / international): 168
- ❖ Monographs: 20
- ❖ Chapters in Books: 08
- ❖ Edited Books: 01
- ❖ Books with ISBN with details of publishers: 02
- ❖ Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- ❖ Citation Index – range / average: All faculties (2014-2015)
- ❖ SNIP: Refer table above
- ❖ SJR: Refer table above
- ❖ Impact Factor – range / average: Refer table above
- ❖ h-index: Refer table above

**21. Details of patents and income generated: NIL**

**22. Areas of consultancy and income generated: NIL**



**23. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad: NIL**

**24. Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify):

1. National Committees –

a. Prof. P.K.Bandopadhyay – Executive member of Indian Society for Parasitology, executive member of Asian Commission of Protistology.

b. Prof. A.K. Panigrahi – Executive member of All India Congress of Zoology, executive member of Zoological Society of India.

2. Editorial Boards of Journals-

a. Prof. P.K.Bandopadhyay – Turkish Journal of Zoology.

b. Prof. A.K. Panigrahi – i) Chief Editor, Indian Journal of Biology. ii) Bioglobbia iii) Biospectra

**25. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). NIL**

**26. Student projects**

a. percentage of students who have done in-house projects including inter-departmental projects: 100%

b. percentage of students doing projects in collaboration with other universities/ industry / institute: NIL

**27. Awards / recognitions received at the national and international level by**

a. Faculty - ✓

b. Doctoral / post doctoral fellows - ✓

c. Students

**28. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.**

Serial No.	Title	Year	Speakers & Papers Presented	Fund & source
1.	22 <sup>nd</sup> National Congress of Parasitology	2010	Invited Speakers= 10 Contributed paper =100	DST, ICAR, ICMR, CSIR, DBT
2.	National Conference on Challenges in Biodiversity and Resource Management	2012	Invited Speakers : 12 Contributed Paper = 100	Biodiversity Board, Govt. Of W.B. Univ. Of Kalyani
3.	24 <sup>th</sup> All India Congress of Zoology	2013	Invited Speakers =15 Contributed Papers = 120	DST, Govt. Of India DST, Govt. Of W.B. DST PURSE, University of Kalyani University of Kalyani
4.	National Seminar on Fish Physiology	2015	Invited Speakers = 04	UGC SAP

**29. Code of ethics for research followed by the departments:**

**The Department follows and takes Approval from Institutional Animal Ethics Committee.**

**30. Student profile programme-wise:**

Name of the Programme	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
(refer to question no. 4)					
PG	300/ Year	20	30	100%	100%
Ph.D	60/ Year	4	6	-	-
D.Sc	1	1	-	-	-

**31. Diversity of students**

Name of the Programme	% of students	% of students from other universities	% of students from universities outside the State	% of students from other countries
(refer to question no. 4)	from the same university	within the State	outside the State	other countries
PG	80%	15%	5%	-
Ph.D	65%	20%	10%	5%
D.Sc		100%		

**32. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

1. NET – 10
2. SET – 08
3. GATE - 04

**33. Student progression**

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	10%
PG to Ph.D.	20%
Ph.D. to Post-Doctoral	10%
Employed	
<input type="checkbox"/> Campus selection	N.A
<input type="checkbox"/> Other than campus recruitment	50%
Entrepreneurs	10%

**34. Diversity of staff**

Percentage of faculty who are graduates:	
of the same university:	50%
From other universities within the State:	40%
from universities from other States:	10%
from universities outside the country:	NIL

**35. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: NIL**

**36. Present details of departmental infrastructural facilities with regard to**

- Library: Centralised Library Facility
- Internet facilities for staff and students: All faculties are provided with Internet facility. Students are provided with one Centralised Computer Room with Internet Facility.
- Total number of class rooms: 03
- Class rooms with ICT facility: 03
- Students' laboratories: 02
- Research laboratories: 10

**37. List of doctoral, post-doctoral students and Research Associates**

a. from the host institution/university:

- i) Doctoral – Refer Annexure I
- ii) Postdoc – NIL
- iii) RA – 01. Dr. Jayeeta Das (DST PURSE)

b. from other institutions/universities:

- i) Doctoral – Refer Annexure I
- ii) Postdoc – NIL
- iii) RA - NIL

**38. Number of post graduate students getting financial assistance from the university:**

Total - 05

**39. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

Yes, The department undertakes new methodology such as Aquaculture technology development, pest control research, important vector identifying tools before implementation of new Programmes.

**40. Does the department obtain feedback from**

- i. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?  
Yes, the department holds regular meetings and discuss with faculties on curriculum as well as teaching-learning-evaluation.
- ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?  
Yes, Feedback from students of each semester are taken on regular intervals and necessary actions are taken on the basis of feedback.
- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback?  
Yes, Suggestions from alumni and employers are implemented for the betterment of the department.

**41. List the distinguished alumni of the department (maximum 10):**

Serial No.	Name	Position held
1.	Prof. Joydeb Pal	Professor of Zoology, North Bengal University
2.	Prof. Sudip Barat	Professor of Zoology, North Bengal University
3.	Prof. Nihar Ranjan Chattopadhyay	Professor W.B. University of Animal and Fisheries Science
4.	Prof. Bipul Kumar Das	Dean, Faculty of Fisheries, W.B. University of Animal and Fisheries Science
5.	Dr. Gobinda Chandra Sadhukhan	Director, Academic Staff College, Jadavpur University
6.	Dr. Ashok Taru Barat	Principal Scientist Cold Water Fisheries Research Institute, ICAR, Bhimtal.
7.	Dr. Sailen Biswas	Joint Director, Department of Fisheries, Govt. of W.B.
8.	Prof. Nimai Chandra Saha	Additional Director Public Instruction, Govt. of W.B.
9.	Dr. P.K. Manoj Kumar Das	Senior Scientist, Dept of Environment, Govt. of Haryana
10.	Dr. Tisar Das	Sperintendent, Cottage and Small Scale Industries, Govt. of West Bengal.
11.	Dr. Uttam Kumar Sarkar	Scientist, NBFG, ICAR, Lucknow

**42. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

1. Special Lectures and tutorials are organised beyond regular classes.
2. External experts were invited to deliver lectures on specific topics.
3. Internal workshops are arranged for on hand training of students for different biological tools and techniques.
4. Internal Seminars are organised by both faculty and students.

**43. List the teaching methods adopted by the faculty for different programmes.**

1. Use of ICT and Smart boards.
2. Modern laboratory techniques are used for practical classes.

**44. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

1. By taking class tests on both theoretical and practical papers.
2. By taking tutorials on competitive exams like NET, SET, GATE etc.

**45. Highlight the participation of students and faculty in extension activities.**

Every year students are taken to educational tours outside state and they also visit different institutes of importance within and outside the state.

**46. Give details of “beyond syllabus scholarly activities” of the department.**

1. Project formulation by the students.
2. Participation in seminars and symposiums.
3. Appearing in Competitive exams.
4. Participation in different extension and co-curricular activities.

**47. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. NO**

**48. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

Both basic and applied technologies on biological experiments viz, Atomic Absorption Spectroscopy, Water quality analysis technology, Bioinformatics, different Assay techniques, Biodiversity studies and conservation tools etc.

**49. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

1. Faculty with rich research curriculum.
2. Sophisticated Analytical Instrument Facility
3. Rich Alumni
4. Sound Student strength

**Weakness:**

1. Lack of Smart Class.
2. Shortfall of faculty.
3. Shortfall of Non teaching Staff
4. Lack of Infrastructure.

**Opportunities:**

1. Inflow of funds for research activities.
2. Quality students admitted.
3. Peaceful environment for academic pursuance.

**Challenges:**

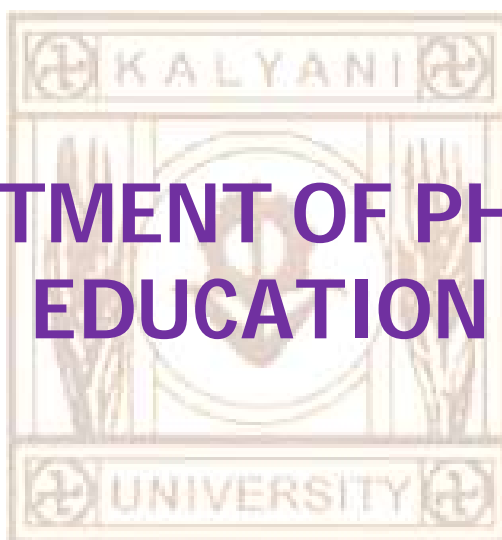
1. International funding for research work.
2. Organising International Seminar/Conference, Workshop.
3. International Collaborative works on research.
4. More Inflow of Funds for research.

**50. Future plans of the department:**

1. Renovation of Animal house.
2. Collaborative research work with other departments of the University.
3. Conducting more National and International seminars.
4. Efforts to be taken for the research work with Foreign countries.



# DEPARTMENT OF PHYSICAL EDUCATION



1. **Name of the Department :** Physical Education
2. **Year of establishment :** 1963
3. **Is the Department part of a School/Faculty of the university?** Faculty of Education, University of Kalyani
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** UG, PG, M.Phil, PhD
5. **Interdisciplinary programmes and departments involved:** Seminar on Sports Medicine in association with Sport Medicine Association of Bengal.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** N.A
7. **Details of programmes discontinued, if any, with reasons:** N.A.
8. **Examination System:** Annual/Semester/Trimester/Choice Based Credit System : Semester
9. **Participation of the department in the courses offered by other departments:** N.A
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	03	03
Associate Professors	01	01	01
Asst. Professors	09	04	04
others	08	07	07

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of years experience	No. of Ph.D./M.Phil. students guided for last 4 years
Dr. (Mrs.) Krishna Banerjee (Biswas)	PhD	Professor	Management, Measurement & Evaluation, Research Method, Adapted Phy. Edn. Volleyball	30	09
Dr. Kanchan Bandopadhyay	PhD	Professor	Exercise Physiology Adapted Phy. Edu	35	06
Dr. Sanjib Mridha	Ph.D	Professor	Sports Anthropometry, Sports Psychology, Aging & Exercise, Yoga	19	04
Dr. Madhab Chandra Ghosh	Ph.D	Professor	Sports Training., Statistics, Biomechanics, Football	16	08
Dr. Nita Bandopadhyay	Ph.D	Associate Professor	Research Method, Sports Training, Basketball	08	03
Dr. Saikot	Ph.D	Assistant	Yoga, Health Education,	7.5	-----

Name	Qualification	Designation	Specialization	No. of years experience	No. of Ph.D./M.Phil. students guided for last 4 years
Chatterjee		Professor	Football		
Dr. Susanta Sarkar	Ph.D	Assistant Professor	Sports Biomechanics, Foundation of Phy	09	01
Sri Pathikrit Bandopadhyay	M.Phil(Physiology)	Assistant Professor	Exercise Physiology	03	-----

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :** Dr. A. Das (Physiotherapy)

**13. Percentage of classes taken by temporary faculty – programme-wise information :**

100% for each subject.

- i. Brotochary
- ii. Swimming
- iii. Self Defence
- iv. Sports Medicine
- v. Computer Application

**14. Programme-wise Student Teacher Ratio:** 40:1

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :**

Sanctioned: 08

Filled: 07

Actual: 07

**16. Research thrust areas as recognized by major funding agencies :** UGC

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.** Nil

**18. Inter-institutional collaborative projects and associated grants received**

a) National collaboration

b) International collaboration

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. – Applied**

**20. Research facility / centre with**

State recognition

a. national recognition

b. international recognition

**21. Special research laboratories sponsored by / created by industry or corporate bodies :** None



**22. Publications:**

☐ Number of papers published in peer reviewed journals (national / international)

Name	Publication		Books
Dr. (Mrs.) Krishna Banerjee (Biswas)	National	4	
	International	20	
Dr. Kanchan Bandopadhyaya	National	10	01
	International	05	
Dr. Sanjib mridha	National	15	03
	International	45	
Dr. Madhab Chandra Ghosh	National	25	
	International	10	
Dr. Nita Bandopadhyaya	National	8	
	International	3	
Dr. Saikot Chatterjee	National	06	
	International	07	
Dr. Susanta Sarkar	National	3	01
	International	3	
Sri Pathikrit Bandopadhyaya	National	02	
	International	07	

☐ Monographs

☐ Chapters in Books ☐

Edited Books

☐ Books with ISBN with details of publishers

☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

☐ Citation Index – range / average ☐ SNIP

☐ SJR

☐ Impact Factor – range / average ☐ h-index

**23. Details of patents and income generated : Nil**

**24. Areas of consultancy and income generated : Nil**

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :**

**26. Faculty serving in**

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).:**

**28. Student projects**

a. percentage of students who have done in-house projects including inter-departmental projects – 100%

b. percentage of students doing projects in collaboration with other universities

1. industry / institute – 100%

**29. Awards / recognitions received at the national and international level by**

- a. Faculty ☒
- b. Doctoral / post doctoral fellows  
Students ☒

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any. Nil****31. Code of ethics for research followed by the departments : Yes****32. Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
B.P.Ed	504	36	16	9.39	23.80
M.P.ED	318	28	12		
Ph.D (JRF)	10	8	2	100	100
Ph.D(URS)	13	4	1	25	30

**33. Diversity of students**

Name of the Programme (refer to question no. 4)	% of Students from the Same University	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
B.P.Ed	-	-	No	No
M.P.ED	80	20	No	No
Ph.D (UGC- JRF)	60	30	10	No
Ph.D (URS)	80	20	1	1

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET- 65

SET- 20

GATE- 0

Defence Service- 7

**35. Student progression**

Student progression	Percentage
UG to PG	90
PG to M.Phil.	-
PG to Ph.D.	10
Ph.D. to Post-Doctoral	00

Student progression	Percentage
Employed	
1. Campus selection	15
2. Other than campus recruitment	75
Entrepreneurs	02

### 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	62.5
from other universities within the state	37.5
from universities from other states	00
universities outside the country	00

### 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: M.Phil- 1

### 38. Present details of departmental infrastructural facilities with regard to

- Library : Central library University of Kalyani
- Internet facilities for staff and students : Yes
- Class rooms with ICT facility: 3
- Students' laboratories : 2
- Research laboratories : 2

### 39. List of doctoral, post-doctoral students and Research Associates

- a. from the host institution/university:

#### I. Doctoral:

#### II. 12. Details of research scholars

#### UGC JRF

Sl. No	Name of the Research Scholar	Date of Registration/ Admission	M.Phil /Ph.D	Area of Research/Title of the Thesis	Supervisor
1.	Apurba Biswas	3.07.2013	Ph.D.		Dr. Saikot Chatterjee
2.	Provash Das	14.11.2014	Ph.D		Dr. Madhab Chandra Ghosh
3.	Piyali Mishra	14.11.2014	Ph.D		Prof. Krishna Banerjee
4.	Anantarup Sen Sarma	02.03.2015	Ph.D		Prof. kanchan Bandyopadhyay
5.	Laden Lapcha		Ph.D		Prof. Sanjib Mridha
6.	Abdul Rezzak Sk.		Ph.D		Dr.Madhab Chandra Ghosh
7.	Raju Biswas		Ph.D		Prof.Kanchan Bandhapadhyay
8.	Biswajit Biswas	30.04.2015	Ph.D		Dr. Saikot Chatterjee
9.	Harekrishna Das		Ph.D		Dr. Saikot Chatterjee
10.	Mithun Chandra Das		Ph.D		DR. Sushanta Sarkar

#### Urs

Name of the Research Scholar	Date of Registration/Admission	M.Phil/Ph.D	Area of Research/Title of the Thesis	Supervisor
Sushanta Paul	14.11.2014	Ph.D		Dr. Sushanta Sarkar
Susmita Dey	14.11.2014	Ph.D		Dr. Saikot Chatterjee
Amitava Ghosal	14.11.2014	Ph.D		Dr. Nita Bandyopadhyay
Bapi Das	14.11.2014	Ph.D		Dr. Madhab Chandra Ghosh
Tarun Mondal		Ph.D		Prof. Sanjib Mridha

## III. Post- doctoral:

- b. from other institutions/universities

## I. Doctoral: 5

## II. Post-doctoral:

**40. Number of post graduate students getting financial assistance from the university: 8**

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

**42. Does the department obtain feedback from**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? – Yes, through questionnaire.
- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Yes.
- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes, their recommendations act as catalyst to developed different future curriculum

**43. List the distinguished alumni of the department (maximum 10)**

Name of the Alumni

1. Prof. Sudarshan Bhowmick
2. Dr. Dilip Kumar Bondopadhyay
3. Sri, Subhas Ch. Samanta
4. Dr. Krishnendu Dhar
5. Sri. Amiya Kumar Saha
6. Prof. Ashok Biswas
7. Prof. Tushar Kanti Bera
8. Dr. Vivekananda Ghosh
9. Prof. Parimal Debnath
10. Prof. Samiran Mondal

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.** Yes, S.Chatterjee endowment lectures over physical education.

**45. List the teaching methods adopted by the faculty for different programmes.**

Audio-visual, Lecture methods

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** Following NCTE guidelines.

**47. Highlight the participation of students and faculty in extension activities.** NSS

**48. Give details of “beyond syllabus scholarly activities” of the department.**

NSS, Intramural & Extramural Activities: NSS activities including camp, seminars etc. Participation in Inter Departmental sport competitions and Inter college as well as Inter University level Sport competitions/.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:** Generating new knowledge in the field of Education and Sports.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength**

Experienced faculties

Infrastructural facilities.

Quality research

**Weakness**

Lack of lecture hall

**Opportunity**

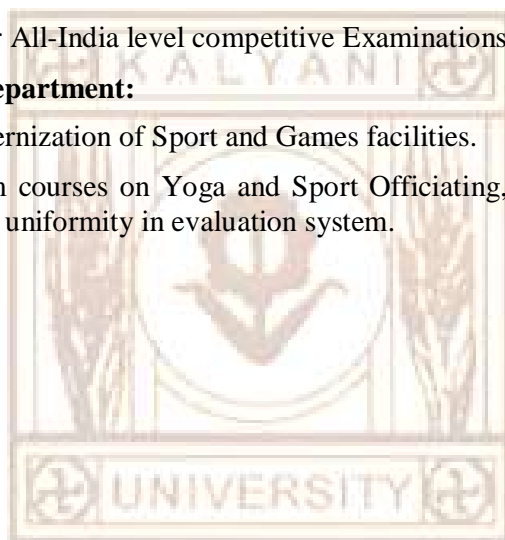
Upcoming sport facilities Swimming pool, Multipurpose hall (2nos.).

**Challenges**

To prepare students for All-India level competitive Examinations.

**52. Future plans of the department:**

- a) Up gradation and modernization of Sport and Games facilities.
- b) To organise short term courses on Yoga and Sport Officiating, workshop for College and University teachers for uniformity in evaluation system.



# DEPARTMENT: SOCIOLOGY



Name of the Department: **SOCIOLOGY**

1. Year of establishment 1962
2. Is the Department part of a School/Faculty of the university? Yes Faculty of Arts & Commerce
3. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) P.G. & Ph.D.
4. Interdisciplinary programmes and departments involved: Nil
5. Courses in collaboration with other universities, industries, foreign institutions, etc. -Nil
6. Details of programmes discontinued, if any, with reasons---Nil
7. Examination System: Annual/Semester/Trimester/Choice Based Credit System Semester: Semester
8. Participation of the department in the courses offered by other departments-No
9. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	Vacant	04
Associate Professors	01	vacant	01
Asst. Professors	08	05(advertised-3)	base post occupied -03 (Two Professors Retired on 30.11.14 & 31.10.15)

10. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. Pujan Kr. Sen (retired on 31.12.13)	M.A., D.Lit	Professor	Industrial & Organizational Sociology, NGO Studies	43+	01
Dr. Samir Kr. Dasgupta (retired on 30.06.14)	M.A., D.Lit	Professor	Urban Studies, Development Studies, Sociology of Economic Life, Sociology of Globalization, Mass Communication	41+	03
Dr. Samita Mannna (retired on 31.12.14 & on extension)	M.A.,Ph.D D.Lit	Professor	Social Problems and Disorganization, Social Anthropology, Tribal Problems, Women Problem	35	08
Dr. Debjani Sengupta (retired on 31.10.13)	M.A., Ph.D	Professor	Social Movement, Agrarian society	34	01

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. Sujata Sen (retired on 31.10.15)	M.A., Ph.D	Professor	Sociological Theory, Women in Crime	35	nil
Dr. Partha Sarathi De	M.A., Ph.D	Professor	Industrial & Medical Sociology, Research methodology	22	03
Dr. Asish Mukhopadhyay (retired on 30.11.15 & on extension)	M.A., Ph.D	Professor	Sociology of Industry and Labour, Consumerism, Urbanization	17	01

- 11.** List of senior Visiting Fellows, adjunct faculty, emeritus professors Emeritus Profeesor---Samir Kr. Dasgupta (2014)
- 12.** Percentage of classes taken by temporary faculty – programme-wise information Nil
- 13.** Programme-wise Student Teacher Ratio  
P.G. : 6:1  
Ph.D. : 3:1
- 14.** Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Support Staff	Sanctioned	Filled	Actual
Technical	Nil	Nil	Nil
Administrative	01	Vacant	Nil
Senior Assistant	01	Vacant	Nil
Junior Assistant	Nil	Nil	Nil
Office Attendent (contractual)	01	Yes	01
Sweeper (contractual)	01	Yes	01

15. Research thrust areas as recognized by major funding agencies: Problems of Tribals & backward classes and rural Studies
16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. 2
17. Inter-institutional collaborative projects and associated grants received
  - a) National collaboration
  - b) International collaboration



Principal Investigator: Professor Samita Manna

Amount Sanctioned:Rs. 8,02,100/-

Status: On-going (for 2 years 09.10.2012)

b) Consultancy Research Project (Ministry of Consumer Affairs, GOI)

Principal Investigator: Professor Asish Mukhopadhyay

Amount Sanctioned: Rs. 3, 50,000/-

Status: Report Submitted in October, 2013

- 18.** Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

Major Research Project (University Grants Commission)

Principal Investigator: Professor Samita Manna

Amount Sanctioned:Rs. 8,02,100/-

Status: On-going (for 2 years 09.10.2012)

b) Consultancy Research Project (Ministry of Consumer Affairs, GOI)

Principal Investigator: Professor Asish Mukhopadhyay

Amount Sanctioned: Rs. 3, 50,000/-

Status: Report Submitted in October, 2013

- 19.** Research facility / centre with

- state recognition
- national recognition
- international recognition

- 20.** Special research laboratories sponsored by / created by industry or corporate bodies: N.A.

- 21.** Publications:

- Number of papers published in peer reviewed journals (national / international):
- Monographs:
- Chapters in Books
- Edited Books: 08
- Books with ISBN with details of publishers: 10
- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average
- h-index

- 22.** Details of patents and income generated: Not applicable

23. Areas of consultancy and income generated: N.A.
24. Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad: Member of UGC, ICSSR, visited national & international universities.
25. Faculty serving in  
 a). National committees b) International committees c) Editorial Boards d) any other (please specify): (a)UGC&ICSSR, (b) nil, (c) Prof. Samir Kr. Dasgupta is an editorial board member of a journal 'Nature&Culture', Lipzig, Germany.
27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).  
 Workshop held on 17.09.2015 on the issue of 'Mother&Motherhood' in collaboration with Indian Sociological Society and the Department of Sociology
28. Student projects  
 ▪ percentage of students who have done in-house projects including inter-departmental projects: N.A.  
 ▪ percentage of students doing projects in collaboration with other universities / industry / institute: N.A.
29. Awards / recognitions received at the national and international level by  
 ▪ Faculty  
 ▪ Doctoral / post doctoral fellows  
 ▪ Students
30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any: Seminar on 'Consumer Justice in Globalizing India' held on 19-20<sup>th</sup> Nov.'15; source-Centre for Consumer Studies, IIPA, New Delhi. Workshop- 'Mother&Motherhood' in collaboration with Indian Sociological Society and the Department on 17.09.2015(outstanding participants-ex Vice-Chancellor of Visva-Bharati, Santiniketan, West Bengal & Vice-Chancellor of Sidhu Kanu Birsu University, Purulia, West Bengal)
31. Code of ethics for research followed by the departments: Yes
32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2014					
PG	106	12	42	99	99.5
Ph.D	10	03	07		
2015					
PG		04	30	-	-
Ph.D	19	05	14	-	-

## 33. Diversity of Students

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
P.G.--2011	99.03	.07	nil	Nil
P.G.--2012	97.76	2.24	nil	Nil
P.G.--2013	65.85	34.15	nil	Nil
P.G.--2014	73.93	24.07	nil	Nil
	99.05	0.05		
P.G.--2015			nil	Nil

## 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

## 35. Student progression

Student progression	Percentage against enrolled
UG to PG	According to approved intake in P.G.(varies from 60-50)
PG to M.Phil.	<5%
PG to Ph.D.	10-25%
Ph.D. to Post-Doctoral	0.1%
Employed	
<input type="checkbox"/> Campus selection	Nil
<input type="checkbox"/> Other than campus recruitment	15-20%
Entrepreneurs	Hardly 5%

## 36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	
from other universities within the State	
from universities from other States from	
universities outside the country	

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: M.Phil-03; Ph.D.-17
38. Present details of departmental infrastructural facilities with regard to
- Library: –only few almirah without books are available in the dept.
  - Internet facilities for staff and students: available
  - Total number of class rooms: 05
  - Class rooms with ICT facility: partial facility in a room
  - Students' laboratories: nil
  - Research laboratories: N.A.
39. List of doctoral, post-doctoral students and Research Associates
- from the host institution/university: 20
  - from other institutions/universities: 08
40. Number of post graduate students getting financial assistance from the university: It varies from year to year due to variety of scholarships and applicants
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. NA
42. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? We discuss in the formal body and utilize accordingly.
  - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? In the curriculum and teaching-learning process
  - alumni and employers on the programmes offered and how does the department utilize the feedback? Scope is very limited
43. List the distinguished alumni of the department (maximum 10)

Sl. No.	Name of the Alumni	Year of passing	Position held
1	Dr. Hoimanti Dasgupta	1970	Rtired Professor, University of Kalyani
2	Dr. Pujan Kumar Sen	1970	Rtired Professor, University of Kalyani
3	Dr. Samir Kumar Dasgupta	1970	Rtired Professor, University of Kalyani
4	Dr. Samita Manna	1979	Professor, University of Kalyani
5	Dr. Partha Sarathi De	1988	Professor, University of Kalyani
6	Dr. Niladri Biswas	1982	Professor, University of Kalyani
7	Dr. Nibedita Ganguli	1979	Deputy Librarian, ISI, Kolkata
8	Dr. Bholanath Ghosh	1979	Assistant Professor, ISI, Kolkata
9	Dr. Suchismita Roy	1982	Associate Professor, Govt. College
10	Dr. Deboprasad Chatterjee	1989	Associate Professor, Govt. College

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts: Two seminars organized 2014-15
45. List the teaching methods adopted by the faculty for different programmes: Lecture and personal interaction are the common modes of teaching. Apart from providing study material and a list of suggested readings, expanded synopsis is prepared for circulation among the students at the end of discussion of each topic.
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Through evaluation process in mid-term and end-semester examinations, through presentation and viva-voce and up gradation of syllabus
47. Highlight the participation of students and faculty in extension activities. The students participate in NSS, cultural and sports activities within and outside the campus.
48. Give details of “beyond syllabus scholarly activities” of the department. The department runs a certificate course on ‘Rural Awareness and Self employments’.
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. No.
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. The department has a good useanch record.
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department. Separate sheet will be sent.
52. Future plans of the department.

The Department, in drawing up the framework of her future plan, has been decisively influenced by her ‘twin goals’ i.e; achieving academic excellence and sustainable development if the community around. The major elements of the future plan and details of financial assistance required during the (XII th) Plan period are stated here-in-below.

1. To apply for Special Assistance Programme (SAP)
2. To Undertake Collaborative/Sponsored Research
3. To Introduce of M.Phil Course
4. To Organizing National/ International Seminar
5. To start Career-oriented, Revenue-Generating Programme
6. To start Diploma Course



# ***Centres***

# ENVIS Centre on Environmental Biotechnology

Name of Coordinator: Prof. S. C. Santra

## 1. About the Centre

The Ministry of Environment, Forests & Climate Change, Govt of India, supported ENVIS Centre on the theme area Environmental Biotechnology was established in 2002. This is a unique theme area for data collection and dissemination with respect to Biotechnology related to environmental aspects. For last 13 years we have compiled over 10,000 abstracted data relating to environmental biotechnology research and application. We have maintained a website on this aspect for last 13 years in the website URL: <http://www.deskuenvis.nic.in>. The site is very useful, helpful, user friendly & highly demandable for the public, researchers, industry personals, NGOs who are working in this related field. The centre provides query services to researchers, scientific communities and other concerned people. In most of the cases replies to the specific queries are given and in a few specific cases some relevant references are provided for better information supports. The numerical data are statistically incorporated in our website with regular updating. We have also published newsletter, abstract volumes, and special books on the thematic area in regular basis. We are regularly organizing workshops, and trainings on the thematic area, environmental biotechnology.

## 2. Regular activities

- The database and other information were regularly updated and uploaded in the website.
- We have newly incorporated Kids corner page in our web site.
- A special page as 'Microbes in application' is unique to contain information on different effective microbes and its application in environmental management.
- All information regarding the concerned subject in form of books, newsletters, journals, thesis and reports were collected in the ENVIS library and also given in website Library page. Research publications of our University related to the subject were also collected and included in this web-page.
- We have established links with different National & International research institutes/ universities / organizations working in the field of environmental biotechnology.
- Current research activity and achievements of related important organizations of India were given in the website.
- Linkages developed with Government, academic, non-governmental organizations and all ENVIS centers in India.
- Update information in the field were regularly adding to the information content of our website and newsletters.
- We attend and participate in all meetings & conference organized by the Ministry.
- Continuous efforts are made in maintaining the reliability and relevance of all the data & information stored in our website. Our site is very useful, helpful, user friendly & highly demandable for the public, researchers, industry personals, NGOs who are working in this related field.
- Our website has been designed in such a way that usages of very simple hyperlinks have made it possible for users to get an easy access to the links with minimum time investment.
- The website has been made accessible to every individual from any part of the world using any type of web browser.

### 3. Library

#### a. Publications

##### (i) News letters

We have published ten news letters on (Volume-18-27<sup>th</sup>) Environmental biotechnology

##### (ii) Abstract Volume

Ten abstract volume (Volume-18-27<sup>th</sup>) on thematic areas were published

##### (iii) Books and E-books

##### (iv) Thesis

##### (v) Journals

##### (vi) Annual report

### 4. Training/Out reach activity

- (i) One Round table discussion on "Prospect of Biofertilizer and Biopesticides in Indian Agriculture" was held on 23.03.2011. The discussion was arranged for interactions of experts, farmers and manufacturer of Biofertilizer and Biopesticides.
- (ii) An interactive workshop on "Food security, GM crops, GMO and Biosafety Issues" was organized on March 19th, 2013. Three eminent experts - Dr. Ashok Kanti Sanyal, Chairman, West Bengal Biodiversity Board, Kolkata, Prof. Ratan Gachhui, Department of Biotechnology, Jadavpur University, Kolkata 700 032 and Prof. Parthadeb Ghosh, Department of Botany, University of Kalyani, presented lectures.
- (iii) A Seminar lecture cum discussion was held at the ENVIS Centre on December 12, 2013 on Bioremediation and Biodegradation aspects. Mr. Santanu Mukherjee of **Agrosphere Institute, Germany** delivered the lecture on the above topic.
- (iv) A Seminar lecture cum discussion was held in the ENVIS Centre on January 2nd, 2014 on Urban Water Scarcity, Climate Change, Water Recycling, Energy and Greenhouse Emissions. Mr. Debashis Raha is a Board Member of the Minister for Environment and Climate Changes universities in Australia was delivered the lecture.
- (v) The Centre was organized a workshop on **"Agrobiotechnology Promotion: Prospects and Constraints"** held at USHA GRAM TRUST, Birnagar, Nadia on 10<sup>th</sup> January 2015.
- (vi) Two eminent experts- Prof. S. Mukharjee, Department of Microbiology, University of Kalyani, Kalyani, Nadia, West Bengal gave a lecture on biocompost, biofertilizer and about the health concerned and Dr. P. Roy, Ex-Director of National Museum of Natural History, Bhubaneswar presented lectures on earthworm identification, classification and vermicompost. A total of **23 lead farmers'** participants took part in the workshop.
- (vii) **Regional Evaluation-cum-Training Workshop for ENVIS Centres** (Eastern & North-Eastern Region), 23-24 March, 2015 at Assam, was Organised by Assam Science Technology and Environment, Council (ASTEC), Assam. Prof. S.C. Santra, (ENVIS Coordinator) and Sourav Banarjee (Web Assistant cum data entry Operator) attained the training.
- (viii) **Customised Hands-on Bhuvan Training Programme for ENVIS Centres** from 19th & 20th November, 2015 was organised by NESAC, Shillong. Mr. Sourav Banarjee (Web Assistant cum data entry Operator) attained the Bhuvan training programme.

### 5. Special day celebration:

#### (i) Environment Day On 5<sup>th</sup> June, 2015 and 2014:

The Hon'ble Vice-Chancellor, Professor Rattan Lal Hangloo inaugurated the World Environment Day by planting the tree sapling. Prof S.C Santra (ENVIS Coordinators) and all the Department of



Environmental Science faculties and staffs were planted the sapling. Different tree saplings were planted in different departments and administrative building of the premises of the University. The Head of the Department, staffs and research scholars of the various departments were participated in the programme. NSS of the university also participated in the programme

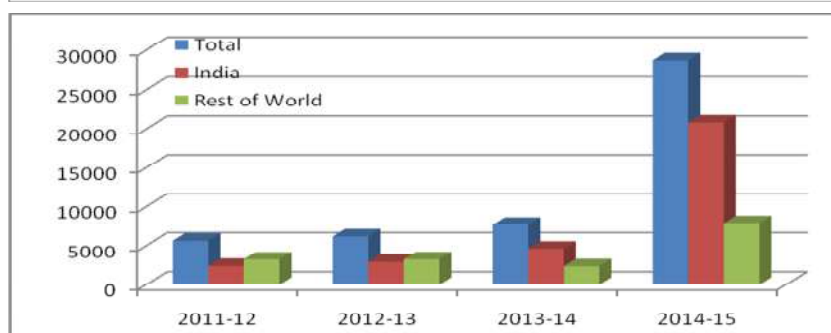
(ii) **ARANYA SAPTAHA:**

ENVIS Centre on “Environmental Biotechnology” Department of Environmental Science, University of Kalyani celebrates the Aranya Saptaha 20th of July, 2015 to raise global awareness to take positive environmental action to protect nature and the planet Earth. The Hon’ble Vice Professor Rattan Lal Hangloo inaugurated the Aranya Saptaha Prof. Sumit Mukharjee, Dean of Arts and Commerce Prof. S.C Santra (ENVIS Coordinators) staff members, research scholars and students of Environmental Science were planted the tree saplings. Different tree saplings were planted in different departments and administrative building of the of the university. The Head of the Department, staffs and research scholars of the various departments were participated in the programme. 1000 nos of tree saplings were planted in this year.

**6. User profile**

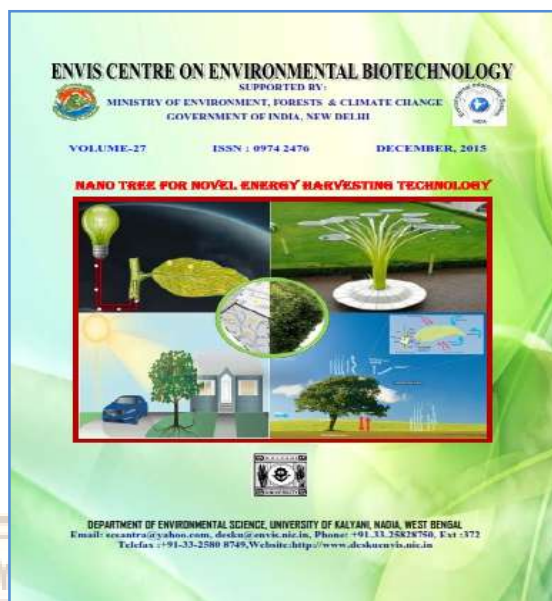
**a) Number of queries comparison for 2011- till date (post, EMAIL, Fax/Phone and physical)**

	POST	EMAIL	FAX/TELEPHONE
2011-12	166	291	318
2012-13	167	283	309
2013-14	126	292	248
2014-15	97	189	278

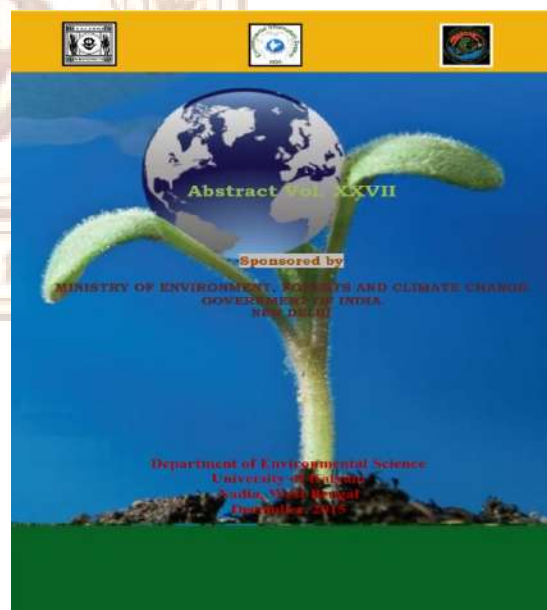
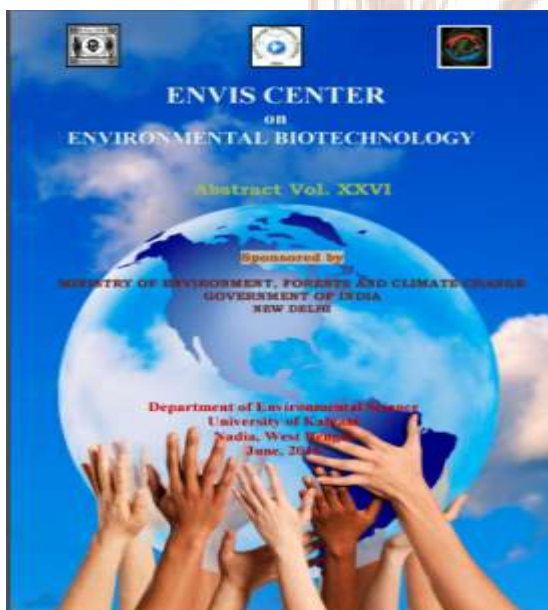


## 7. Current news letters/Abstract volumes (2015-16)

### Newsletters Volumes



### Abstract Volumes



## Centre for Information Resource Management

### 1. Introduction

The new era of Information Technology (IT) in University of Kalyani started with the dawn of the new Millennium. We started with a mission to make an IT-based university, emphasizing on its multidimensional development, having efficient management and functioning. We have clear vision about the pivotal role of Information Technology in education and research and in streamlining the university management, which included

- Developing a Website for the University.
- Promotion of E-Learning through Moodle with the help of NMEICT.
- Introducing IP-PABX System.
- Introducing Web-Mail & E- Services.
- Providing Wi-Fi Facility in university campus

At the outset, the Internet Centre was established in the year of 2002 with the monetary help from the MPLAD (Member of Parliament Local Area Development) fund of the Hon'ble Rajya Sabha Member Prof. Bharati Roy, the noted Academician. The Centre was inaugurated by Prof. Roy in the presence of our Ho Vice-Chancellor Prof. N. Saha on June 13, 2002.

The UGC visiting team, while visiting the University for Xth plan allocation, was so satisfied with the functioning of the Centre that according to its recommendation, the UGC sanctioned Rs. 15 Lakhs for the Centre for further development of internet facility of the University. With this money, the University-Campus-Networking (connecting different academic and administrative departments through OFC) was planned and ordered to 'Electronic Corporation of India Ltd. (A Govt. of India undertaking)' for execution. The Campus-Networking facility was commissioned in July, 2004.

The Executive Council in its 8th meeting of the 6th Executive Council held on 22nd March 2007 approved of the renaming of the "Internet Centre" as "Centre for Information Resource Management (CIRM)". The newly CIRM was Inaugurated by Hon'ble Prof Debesh Das, Minister-in-Charge, Department of Information Technology, West Bengal in the presence of Hon'ble Vice-Chancellor Prof A.K.Das University of Kalyani on December 03,2007

CIRM is the central unit, there are 50 terminals connected under LAN and each department has separate VLAN. This unit connected by 1Gbps NKN link and internet service provided by the BSNL (Bharat Sanchar Nigam Limited), India under the NME-ICT Project. The NME-ICT Project link maintained by NIC. The teachers, scholars, students, officers and staffs of the University can access to this centralized facility.

### 2. Campus Area Networking

Local Area Network with 24-Core, 12-Core and 6-Core Gigabit OFC backbones (both Single and Multimode) connecting to 22 buildings was established in 2002 and the next phase connected 04 building and Research Scholars hostels in the year 2010. Now, the centre are providing connectivity rest of all buildings including all hostel. 1 Gbps connectivity with National Knowledge Network (NKN) provided by NMEICT Project through BSNL. The network connectivity provided to about 800+ nodes throughout the campus and departmental LAN by UTP and STP.

The following network equipments are used:

- CISCO-2600 Series Router
- CISCO-2800 Series Router
- CISCO-1700 Series Router
- 3COM 228G Switch 3COM

- 226G Switch D-Link Unmanaged Switch
- 2510 Pro-curve Managed Switch
- 2530 HP Managed Switch
- 5406zl Pro-curve Layer 3 Switch
- 4206vl Pro-curve Layer 3 Switch
- UTM –Cyberoam 1000i
- Juniper Router 10i

### 3. Website Development/Maintenance

Details about the courses offered by the University, brief resume of the faculty members, student-related information, such as hostels, sport facilities, extra-curricular activities admission-related information. etc. given in the website. Further information provided are:

- Update day-to day event & activity
- Upload video lecture and seminar in cloud
- Syllabi of all Faculties and Department
- Application forms for employment to all departments
- Display of notice for any type of tender
- Display news for seminar, conference, workshop and Symposium refreshers courses to all departments in the University.
- Display any type of results.

### 4. Digital EPABX System

It is a university switching station for management of campus area telephone network. Digital EPABX System Cabinet wired for 208 ports

- 08 Digital Extension ports
- 192 Analogue extension ports
- 16 Analogue Co/Trunk Ports
- 01 Operator Console
- MDF with IPM protection in all lines
- Compatible for ISDN

### 5. Services of the CIRM

- Providing Central Computing facility to all users of our University
- University Website development and maintenance time to time.
- IT (Information Technology) based training programme to all types of users like In-house staff, Research Scholars, Teachers, and Administrative/Academic staff and so on.
- Managing Software according to the need of the University.
- Organizing IT based Conference/Seminar/Workshop/Symposium time-to-time.
- Establish and configure Wi-Fi Facility in Campus.
- Management of university campus LAN with Internet and intranet facility.
- Monitoring and uploading the tender, notice, Advt., requirement notice etc. in University website.

- E-mail/Web-mail facility and Internet accessibility.
- University Digital EPABX system maintaining & upgrading.
- Setup and installing of intercom connection.
- Providing support service to the Central Library of the University, digitization of their housekeeping and information retrieving functions.
- Development of University based institutional digital repository in collaboration with Central Library to facilitate the dissemination of digital materials created by the University and its community members.
- Providing Internet facility for academic/research purpose to our students, research scholars, and teachers and staffs.
- Providing webmail of our university to all users

## 6. Our Resources

### ➤ **HARDWARE RESOURCES**

#### ✓ **Database Application Server**

HP DL 380

#### ✓ **Blade Server**

HP C3000 ( 3 Nos. Blade)

#### ✓ **DNS, DHCP, Web Server, Antivirus Server**

HP C3000

#### ✓ **Firewall cum UTM**

Cyberoam 1000i

#### ✓ **Network Switches**

HP Procurve 2510-24, HP Procurve 5400zl, HP Procurve 4204vl ,DLink,3COM ,HP 2530-24

#### ✓ **Router**

CISCO 1600,CISCO 1700.CISCO 2800,Juniper 10i

#### ✓ **Online UPS**

EMERSON 2KVA, EMERSON 20KVA

#### ✓ **Desktop, Laptop &Printer**

DESKTOP :Inter Dual Core Asseble, Intel Core 2 Duo;

### ➤ **SOFTWARE RESOURCES**

#### ✓ **Operating System & Server**

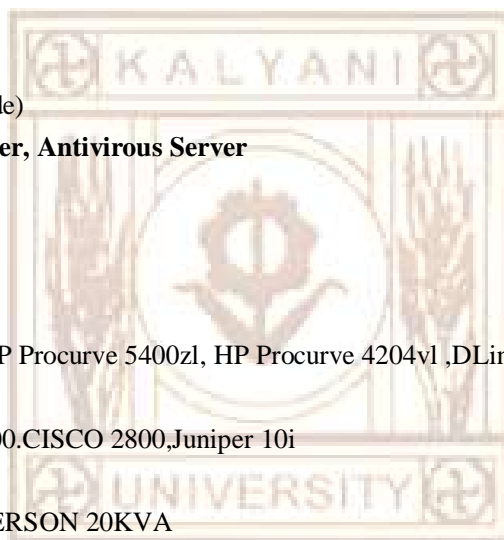
Windows 8, Windows 10, Windows 7 Enterprise Edn. Windows Vista, Windows XP Professional, Windows Server 2012 , Windows Server 2008, Windows Server 2003, Radhat Linux Enterprise Edn. Microsoft Campus Licensing

#### ✓ **Software Package**

Microsoft Office 2007, Adobe CS5, Autocad 2010, MS Visual Studio 6.0, Mathworks Matlab

#### ✓ **Antivirus**

Kaspersky Endpoint Security, K7 Total Security



➤ **HUMAN RESOURCES**

**System-in-Charge**

Dr. Ujjal Marjit

**Programmer**

Mr. Dipansu Mondal

**System Administrator**

Mr. Paranjay Halder (on Contract)

**Senior Telephone Operator**

Mr. Sankar Bhattacharya

**Telephone Operator**

Mr. Pravat Halder

**Junior Assistant**

Mr. Amit Saha

**Office Attendent**

Smt. Chandana Bala

**7. Our E-Awareness Programme**

- DEC –Sponsored Training Workshop on ICT for Staff Development from 19<sup>th</sup> -23<sup>rd</sup> March 2013
- UGC-DEB Sponsored In-Service Staff Training on ICT Applications in Office Management during 18-22 March 2014
- Celebrating Digital India Week with National Informatics Centre (NIC) on 7<sup>th</sup> July 2015

**Our Future Vision**

➤ **E-Education**

- ✓ Multi media Laboratory
- ✓ Introducing of short term IT courses
- ✓ Introducing CCNA, RHCE, MCSE, MCSA, A+, and N+ collaboration with reputed Pnt.. Professional Institute.
- ✓ Web based course materials distribution of DODL

➤ **Infrastructure Expansion**

- ✓ Videoconferencing
- ✓ Dynamic and data-driven website

- ✓ Stronger integration of University processes with Information SystemWeb based course materials distribution of DODL
- **Outreach Programmes**
- ✓ IT empowerment of women from remote areas
- ✓ IT empowerment of SC/ST & other Backward Class student from neighboring
- ✓ Networking with IT centers of other universities.
- **E-Governance**
- ✓ Structured, Stable, Manageable Campus Networks
- ✓ Wireless Campus
- ✓ Internet Bandwidth
- ✓ Hardware, Software requirements





## International Centre for Ecological Engineering

1. **Name of the Centre:** International Centre for Ecological Engineering
2. **Year of establishment:** 2002
3. **Is the Department part of a School/Faculty of the university?** Yes; under Faculty of Engineering, Technology & Management
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** Conducts research and extension activities
5. **Interdisciplinary programmes and departments involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programmes discontinued, if any, with reasons:** NA
8. **Examination System:** Annual/Semester/Trimester/Choice Based Credit System: NA
9. **Participation of the department in the courses offered by other departments:**
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

Sanctioned		Actual (including Filled CAS & MPS)	
Professor	0	0	0
Associate Professors	1	1	1 (CAS)
Asst. Professors	2	2	1



### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Jayanta Kumar Biswas	M.Sc., M.Phil., Ph.D.	Associate Professor	Applied Ecology; Ecological Engineering & Ecotechnology; Environmental Microbiology & Biotechnology; Ecotoxicology; Aquatic pollution monitoring & eco-remediation; Regenerative reclamation of wastewater; Environmental Ethics	15 years	8 Students are being guided for Ph.D degree; 15 MTech & MSc dissertation
Dr. Susmita Lahiri	M.Sc., Ph.D	Assistant Professor	Wastewater Management, ecological engineering, Aquaculture, microbial bioremediation	5	8 Students are being guided for Ph.D degree

### 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: NA

### 13. Percentage of classes taken by temporary faculty – programme-wise information: NA

### 14. Programme-wise Student Teacher Ratio: NA

### 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Nil

### 16. Research thrust areas as recognized by major funding agencies:

- Effect of global warming and climate change on Indian aquaculture
- Safeguarding water resources using green and sustainable technologies
- Wastewater fed aquaculture as a reclamation strategy
- Eco-tech approaches towards reclamation of eutrophic waters using hydroponics and biological agents
- Efficacy of constructed wetlands in the removal of pathogens in wastewater fed aquaculture
- Environmental pollution and ecoremediation

### 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

One; Dr. Susmita Lahiri (as Co-PI)

- Funding agencies:- DST

- Project title : Safeguarding Water Resources of India with Green and Sustainable Technologies
- Grant received : Rs.50 Lakhs

### **18. Inter-institutional collaborative projects and associated grants received :**

a) National collaboration

b) International collaboration

The above stated project is an India-EU collaborative project involving many national and international agencies.

### **19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil**

### **20. Research facility / centre with**

- a. state recognition ✓
- b. national recognition
- c. international recognition ✓

### **21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil**

### **22. Publications:**

- ☐ Number of papers published in peer reviewed journals (national / international): 40
- ☐ Monographs: Nil
- ☐ Chapters in Books 6 ☐ Edited Books: Nil
- ☐ Books with ISBN with details of publishers: Nil
- ☐ Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 34
- ☐ Citation Index – range / average ☐ SNIP
- ☐ SJR
- ☐ Impact Factor – range / average: 0.8 ☐ h-index: 6

### **23. Details of patents and income generated: NA**

### **24. Areas of consultancy and income generated:**

- Water quality analysis
- Waste Management
- Environmental Auditing
- Environmental Impact Assessment
- Environmentally Responsible Fishery

### **25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad: Nil**

## 26. Faculty serving in

- a) National committees:
- b) International committees
- c) Editorial Boards: Dr. Jayanta Kumar Biswas is serving as **Editor-in-Chief**, Academic Spectrum -a multi-disciplinary, refereed journal (ISSN: 09769323) and as **Editorial Board Member of** (i) International Journal of Pollution & Noise Control, (ii) International Journal of Environmental Chemistry, (iii) International Journal of Prevention & Control of Industrial Pollution
- d) any other (please specify) : Dr. Jayanta Kr. Biswas is a member of Environment and Energy Committee, Bengal Chamber of Commerce and Industry (BCCI), Kolkata.

## 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Faculties regularly participate in refresher / orientation programs, seminars, conferences, workshops, training program, etc.

## 28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects: NA
- percentage of students doing projects in collaboration with other universities/ industry / institute NA

## 29. Awards / recognitions received at the national and international level by

Faculty: Dr. Jayanta Kr. Biswas:

- (i) Received the award of FZS (Fellow, Zoological Society, Kolkata) as a recognition of his contribution in the environmental research areas (2012-2013).
- (ii) Received the Senior Scientist Award and gold medal in the 24<sup>th</sup> All India Congress of Zoology, awarded by Zoological Society of India in 2013.
- Doctoral / post doctoral fellows
- Students

## 30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any:

- a) Special Lecture on “Application of Ecological Engineering in the Present Perspective of Environmental Degradation and its Restoration” (12.01.2011)
- b) International Seminar on Environmental Engineering for Environmental Management (14.01. 2012)
- c) International Seminar on “Current Status of Arsenic, Fluoride and Pathogens in Drinking Water: Treatment Methods and Experiences” (01.04.2013).
- d) One-day international seminar on Sustainability and future of Environmental Engineering organized in collaboration with Noble Institute of Environmental Peace, Canada on 16.07.2014.
- e) Workshop on Revision of syllabus of M.Tech/M.Sc in Environmental Management on 03.12.2014.
- f) Special lecture on Water and Health by Claus Jorgensen, Head, WHO laboratories, Denmark, organized by ICEE and Department of Environment and Ecological Studies, Kalyani University on 28.11.2014.

- g) National Seminar on Impact of climate Change on Aquaculture and Mitigation Options for Food Security organized by International Centre for Ecological Engineering and Department of Environment and Ecological Studies during March 25-26, 2014.
- h) Workshop on Chemistry and Microbiology: Laboratory Methods and Practices for the Evaluation of Wastewater organized by International Centre for Ecological Engineering and Department of Environment and Ecological Studies during April 27-30, 2015.
- i) Stakeholders Forum and Workshop on Indian Wastewater Sector organized by International Centre for Ecological Engineering and Department of Environment and Ecological Studies on April 30, 2015.

**31. Code of ethics for research followed by the departments:** Yes; The Department is committed to undertaking research with scientific integrity and in conformity with the accepted code of principles on Good Research Practices (GRP). All researchers follow the standard code of ethics for research laid down by relevant scientific and professional bodies.

**32. Student profile programme-wise:** NA

**33. Diversity of students:** NA

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

GATE: NA

**35. Student progression :** NA

**36. Diversity of staff**

<b>Percentage of faculty who are graduates of the same</b>
university: 50%
from other universities within the State : 50%
from universities from other States from universities outside the
country

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** Nil

**38. Present details of departmental infrastructural facilities with regard to**

- a. Library: Service is received from Central Library facility
- b. Internet facilities for staff and students: Yes
- c. Total number of class rooms: 2
- d. Class rooms with ICT facility: Nil
- e) Students' laboratories: NA
- f) Research laboratories: 2

**39. List of doctoral, post-doctoral students and Research Associates**

- a. from the host institution/university:
- b. from other institutions/universities:

**40. Number of post graduate students getting financial assistance from the university:** NA

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.** NA

**42. Does the department obtain feedback from**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? NA
- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? NA
- iii. alumni and employers on the programmes offered and how does the department utilize the feedback? NA

**43. List the distinguished alumni of the department (maximum 10):** No alumnus

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:** NA

**45. List the teaching methods adopted by the faculty for different programmes:**

NA

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?** NA

**47. Highlight the participation of students and faculty in extension activities.**

- ICEE regularly organize awareness generation and sensitization programmes involving faculties and students on different environmental and allied issues like organic farming, integrated farming, aquaculture, wastewater-fed fish farming, eco-sanitation.
- Besides, it celebrates World Environmental Day, Tree Plantation Week, Earth Day, etc.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- ICEE is engaged in diverse activities in the fields of research, training, and extension activities towards protection of environment, uplift of rural economy etc.
- In addition to this Centre is promoting research activities by organizing National and International Seminars, Conferences, Symposia, etc. Faculty members are encouraged to attend and present papers in intra-institutional and other national and international platforms.
- Faculty members are participating in the workshops and hands on training programmes on modern techniques, upcoming methods, etc.
- Faculty members are publishing articles in the reputed journals at national and international level.
- Faculty members are delivering special lectures and invited lectures and serving as resource persons in conferences, refresher course, etc at other institutions
- Constant efforts are being made to include other International and National organisations for support and collaboration so that the Centre can contribute towards sustainable development in a global perspective. Accordingly a number of MOUs have been signed with International Ecological Engineering Society (IEES), Switzerland, Kochi University (Japan), ACTS (Bangalore, India) and William Carey University (Shillong, India). The Center has already earned International recognition in research and has become a member of the Global Water Partnership in Stockholm, Sweden.
- Centre extends consultancy services in the areas of resource management, water quality analysis, environmental impact assessment, wastewater management, aquaculture, etc.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.: NA**

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

- ICEE has set earned a recognition in publishing quality research papers in peer reviewed journals of International and National repute.
- It is regularly organizing seminars, workshops and hands on training programmes on upcoming topics, areas and research.
- Since the beginning of its journey in 2002 in collaboration with Ecological Engineering Society, Switzerland ICEE has made remarkable strides in research at the national and international arena with implementation of many major research projects funded by CSIR, DST, DBT, ICAR, GTZ (Germany), TTZ (Germany), Eco-san (European Commission), etc. ICEE has carved a niche in the international arena by making substantial contribution and cutting edge research. As a noteworthy international recognition in water research, the ICEE has become a partner of the Global Water Partnership, Stockholm, Sweden which is regarded as a prestigious recognition in water sector in the world) with effect from November 1, 2006.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- Cutting edge research in diverse areas of environmental
- Qualified and competent faculty
- Fully equipped laboratories and advanced research instrumentation facility
- Excellent library facility
- Collaboration with national and international organizations and laboratories
- Research culture

**Weaknesses:**

- Low enrolment of students
- Inadequate number of faculties
- Physical space constraint

**Opportunities:**

- National and International research collaborations
- Participate in national /international seminars.
- Industrial tie-ups
- Potential opportunity for career development in research, industry, NGOs, self-employment, etc.

**Challenges:**

- Research grants from national and international funding agencies
- Sustained cutting edge research, quality publication and patenting
- Setting up of Industrial linkage



**52. Future plans of the department:**

- Overcome shortage of teaching faculty recruiting faculties
- Infrastructural development e.g. extension of building, up-gradation of laboratories, procurement of some high end scientific instruments, purchase of text and reference books and journals
- Overall improvement of research activities of the centre.
- MOU with different national and international universities and organizations
- Research collaboration with several universities, institutes at national and international level.
- Organization of National and International seminars, workshops, special invited lectures, etc.
- Submission of research projects by individual teachers to different funding agencies.
- Participation of teachers in different faculty development/recharge programmes
- Institute-Industry tie-up
- Conduction of extension activities like environmental sensitization and awareness generation through community engagement programmes



## Bioinformatics Infrastructural Facility (BIF)

1. **Name of the Centre:** Bioinformatics Infrastructural Facility (BIF)
2. **Year of establishment:** 2007
3. **Is the Department part of a School/Faculty of the university?:** Central Facility of the University funded by Department of Biotechnology (DBT), India
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):** Ph.D, Traineeship and Studentship in Bioinformatics
5. **Interdisciplinary programmes and departments involved:** NA
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** NA
7. **Details of programmes discontinued, if any, with reasons:** NA
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:** NA
9. **Participation of the department in the courses offered by other departments:** Bioinformatics courses of other Departments are being conducted as and when required.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):** NA
11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Angshuman Bagchi	Ph.D, Postdoc from i. )IUPUI, USA, ii)Buck Institute, USA	Assistant Professor-Stage III	Bioinformatics	10 Years+	4

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors:** NA
13. **Percentage of classes taken by temporary faculty – programme-wise information:** NA
14. **Programme-wise Student Teacher Ratio:** NA



**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: One Project Fellow**

**16. Research thrust areas as recognized by major funding agencies: Bioinformatics**

**17. Number of faculty with ongoing projects from** a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

**Dr. Angshuman Bagchi is the PI of the following funded research projects:**

- a) Insight into human disease causing mutations in proteins by analyzing protein-protein interactions to identify the plausible causes of disease propagation (SAN NO. 102/IFD/SAN/1823/2015-2016) funded by DBT for the period 06.08.2015 to 05.08.2018.
- b) Structural insight into the interactions of the heat shock proteins and heat shock transcription factor  $\sigma 32$  in *E. coli*. (Jointly with Dr. Rakhi Dasgupta) funded by DBT for the period 24.5.2013 to 23.5.2016.
- c) In Silico Analyses of the Transcription Factors from Pathogenic Bacteria to Identify the Molecular Mechanism of Bacterial Gene Regulation and Disease Propagation- Technically Approved by ICMR, India

**18. Inter-institutional collaborative projects and associated grants received**

- a) National collaboration
- b) International collaboration
- b) International collaboration: Dr. Angshuman Bagchi, the Coordinator of the BIF Center and Assistant Professor of Department of Biochemistry and Biophysics, University Kalyani was chosen as one of the PIs in BioAsia-2016 project along with Prof. Anny Slama-Schwok, Virologie et Immunologie Moléculaires, INRA UR892, Domaine de Vilvert, 78352 Jouy-en-Josas, France, tel: (+33) 1 34 65 26 15, fax: (+33) 1 34 65 26 21

Dr. Angshuman Bagchi, the Coordinator of the BIF Center and Assistant Professor of Department of Biochemistry and Biophysics, University Kalyani has collaborations with Prof. hailong Zhu, Department of Computer Science, Hong Kong Baptist University, Hong Kong.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.: NA**

**20. Special research laboratories sponsored by / created by industry or corporate bodies: NA**

**21. Publications:**

- ☐ Number of papers published in peer reviewed journals (national / international): 41
- ☐ Chapters in Books: 16
- ☐ Citation Index – range / average: 277
- ☐ Impact Factor – range / average: 2 to 5 , 2.5
- ☐ h-index : 9

**22. Details of patents and income generated: NA**

**23. Areas of consultancy and income generated: NA**

**24. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**

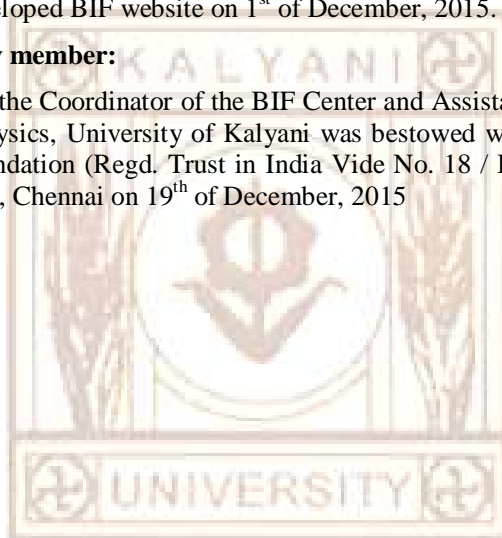
Dr. Angshuman Bagchi was appointed as the Visiting Research Fellow in the laboratory of Prof. Hailong Zhu, Department of Computer Science, Hong Kong Baptist University, Hong Kong

**25. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

- a) To Predict and Model Biological Molecules and System -16<sup>th</sup>-18<sup>th</sup> March, 2011
- b) Recent Trends in Molecular Modeling & Simulation in Structural Biology - 14<sup>th</sup>-18<sup>th</sup> November, 2011
- c) Protein Folding and Molecular Modeling, Dynamics & Simulation -26<sup>th</sup>-30<sup>th</sup> November, 2012
- d) Modeling & Drug Designing - 18<sup>th</sup>-22<sup>nd</sup> November, 2013
- e) National Workshop on “*In Silico* Analysis of Mutation” - 16<sup>th</sup> December, 2015
- f) Launching of Bioinformatics Seminar Series on 1<sup>st</sup> of December, 2015 at the APC Hall of the University - Inaugurated by Honourable Vice Chancellor Prof. Rattan Lal Hangloo.
- g) Launching of newly developed BIF website on 1<sup>st</sup> of December, 2015.

**26. Achievements of faculty member:**

Dr. Angshuman Bagchi, the Coordinator of the BIF Center and Assistant Professor of Department of Biochemistry and Biophysics, University of Kalyani was bestowed with Young Scientist Award by Venus International Foundation (Regd. Trust in India Vide No. 18 / BK-IV/2015) in a ceremony at Hotel Le Royal Meridien, Chennai on 19<sup>th</sup> of December, 2015



## Rabindranath Adhyan Kendra

1. **Name of the Department:** Rabindranath Adhyan Kendra
2. **Year of establishment:** 2010
3. **Is the Department part of a School/ Faculty of the university?** Centre of the University.
4. **Names of programmes offered:** 3 Months Certificate Course
5. **Interdisciplinary programmes and department involved:** Academic Seminars and Workshop arranged with Collaboration Department of Adult Education K.U. and Department of Bengali and Department of English.
6. **Courses in collaboration with other universities, industries, foreign instauration, etc:** N.A
7. **Details of programmes discontinued, if any, with reasons:** Details given in additional extra sheet.
8. **Examination System:** Written test with two papers 100 marks.
9. **Participation of the Department in the course offered by other Department:** N.A
10. **Number of teaching posts sanctioned etc.....:** N.A
11. **Faculty profile with name, qualification, designation etc.....:** N.A
12. ....N.A
13. ....N.A
14. ....N.A
15. ....N.A
16. **Research thrust areas as recognized by major funding agencies:** U.G.C
17. **Total grants received :** Rs. 6 lakhs 75 thousand only and the final utilization report has been furnished to U.G.C.
18. **Inter-institutional collaborative projects and associated grants received** A) National collaboration: a). National Drama Festival on 17-18 Feb, 2012. Collaboration with the Theatre group (Kalyani Kalamandalam).
- b). **A two days national level seminar:** “Rereading Rabindranath: A Multi-Dimensional Approach” on 15-16 Feb, 2012. Collaboration with the Theatre group (Kalyani Kalamandalam).
- c). **A two days national seminar:** “**Rabindranath** : Palli Sanjiban O Palli Punargathan” on 10-11 march 2014. Collaboration Department of Adult Education K.U.
- d) **A one days national seminar:** “Tagore’s Plays in Indian Languages” on 29 August 2014. . Collaboration Department of Adult Education K.U. and Theatre group (Kalyani Kalamandalam).
- 19.....N.A
- 20.....N.A
- 21.....N.A

**22. Publications:**

\* Number of papers published in peer reviewed journals (National/ International): A research journal “Rabindra Adhddhyan-1” (ISSN : 2320-5253), Publisher : Souparna Udyog.

\* Edited Books: “Rabindranather Chithhi Parul Devike” Published in 1987.

23.....N.A

24.....N.A

25.....N.A

26.....N.A

**27. Workshops:**

a) A two days Theatre workshop 8-9 august, 2011.

b) A three days workshop on the songs of Rabindranath.

c) A two days workshop on Recitation of Tagore’s Poem- 27-28 Feb, 2014.

28. 3 Months Certificate Course in Tagore’s Life and Philosophy.

29.....N.A

30. **Seminars/ Conferences/ Workshops organized and the source of funding:** U.G.C.

31.....N.A

32. **3 Months Certificate Course in Tagore’s Life and Philosophy Application received more than 50 in each session, selected 15, Pass percentage 100%.**

33. **Diversity of students: mainly students from within the state.**

34.....N.A

35.....N.A

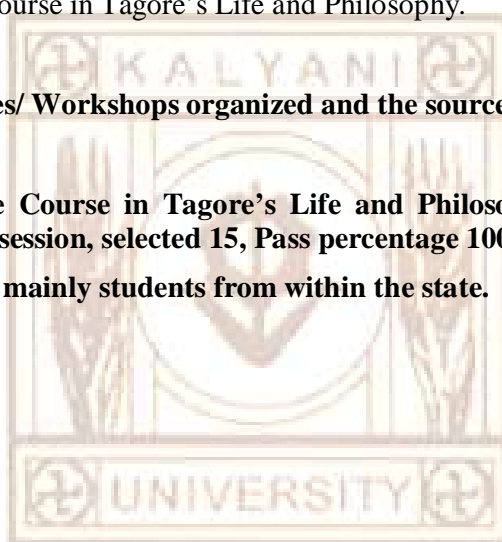
36.....N.A

37..... N.A

38. a) **Library: N.A**

b) Internet facilities: For stuff only.

c) Class room: one.



## Centre for Women's Studies

### Activity – 1

#### **One-day International Seminar on ‘Women’s Empowerment or Power Equity: A Challenge to 21st Century India, April 10, 2014**

The One-day International Seminar on the burning issue : “Women’s Empowerment or Power Equity: A Challenge to 21st Century India” was successfully organized by the Centre for Women’s Studies, University of Kalyani on 10<sup>th</sup> April, 2014 at ‘Vidyasagar Savagriha’, in the University premises. A sound gathering was noticed in the registration counter before starting of the seminar. The colossal programme was formally started with an auspicious song at about 11.30 am. The esteemed Chief Guest Ms. Abida Islam, Hon’ble Deputy High Commissioner, Bangladesh then inaugurated the seminar. After this, felicitation of the dignitaries presented on the stage was done in traditional way by the university students. The audience was then made acquainted with the theme of the seminar in a lucid manner by Dr. Debjani Guha, Director-in-Charge of the Centre for Women’s Studies. Prof. Sumit Mukerji, Dean, Faculty of Arts, Commerce & Education of the University in his short welcoming speech addressed all the luminaries and explained the present status of women empowerment in India. Ms. Abida Islam catching the tune of the theme expressed her valuable opinion on status of women empowerment in an international perspective. In her scholarly speech Prof. Mamata Ray, Principal, Maulana Azad College, Kolkata focused on those rights that would promote free agency of women. An insightful presidential address was delivered by Prof. Rattanlal Hangloo, Hon’ble Vice Chancellor, University of Kalyani in style. The inaugural session was thus ended with vote of thanks offered by Prof. Rina Bhattacharya of the Dept. of Environmental Sc. of the University.

The inauguration ceremony was followed by the Plenary Session. The Plenary Session 1 was started with



Key note Address by Prof.  
Archana Sharma

the key note address of Prof Archana Sharma, Former Director, Women’s Studies Research Centre and Prof. in Economics, Gouhati University, Assam. Prof. Salma Ahmed Farooqui, Maulana Azad National Urdu University, Hyderabad, Director, H.K. Sherwani Centre for Deccan Studies, Hyderabad depicted the evolution of South Asian women in her illuminating lecture in the Plenary Session 2. Plenary Session 3 was started with the speech of Prof. Chittabrata Palit, Former Emeritus Professor in History of Jadavpur University, Kolkata. In the Plenary Session 4 Prof. Bonita Aleaz, Prof. in Political Science of Calcutta University delivered her timely and thought provoking speech.



Address by Prof. Salma  
Ahmed Farooqui

The Paper Presentation session, comprised of three technical sessions was started from 2.45 p.m. under the chairpersonship of eminent educationists.

The massive programme came to an end with the Valedictory Session under the chairpersonship of Prof. Subhalakshmi Nandi of the Dept. of Education, Kalyani University. The Valedictory Speech was delivered by Guest-in-Honour Prof. Samita Manna, Hon’ble Vice Chancellor of Sidho Kanho Birsha University, Purulia, West Bengal. Prof Partha Sarathi De, Head, Dept. of Sociology of the University summed up the Seminar



Address by Prof. Bonita Aleaz

programme. Certificates were prepared accordingly for the participants and paper presenters. At the end, Prof. Kalyani Mali, Dept. of Computer Sc. and Engineering conveyed her heartfelt thanks to all involved in the seminar for their sheer cooperation towards making it successful.



## **Activity – 2**

### **One-day ‘Orientation cum Health Sensitization Programme for the Rural Young Mothers’ – held on December 12, 2014 at Alaipur, Dist Nadia**

One-day Orientation cum Health Sensitization Programme for the rural young mothers was organized by the Centre on 12.12.14 at the ‘Sishu Siksha Kendra’, Alaipur in Nadia district. A team consisting of some members of the Advisory and Academic committee of the Centre reached there at about 1-30 pm with some essential medical equipments like weighing machine and BP measuring tool. At the onset, Prof. Sumit Mukerji, Dean of Arts, Commerce and Education, in his short welcome address, clearly elucidated the purpose of the programme and invited the participant mothers to the University campus for second phase of the programme to be held in the middle of January, 2015. Twenty young mothers from the nearby locality with their children came out in the programme where a deliberate interactive session was conducted by the two resource persons, Dr. Subhalakshmi Nandi, Professor of Education, and Dr. Ishan Chandra Ghosh, Medical Officer of University of Kalyani. The session concentrated fully on the issues related to the care of physical and mental health of both mother and child. Adequate parenting, specifically mothering, for better development of child personality were also covered in the session. Dr. Nandi in her discourse put emphasis on the development of mother-child emotional bond and gave some tips for child’s intellectual and social development. Utilising the opportunity, Dr. Ghosh in his scholarly speech prescribed a healthy, nutritious but cheap-in-cost home-made meal based on cereal for the child. He also identified the dos and don’ts regarding Thalassaemia, when one member, Dr. Niladri Biswas, raised the issue of Thalassaemic child before the participants. During the session, other members of the Centre tried to satisfy the mothers present there by replying their queries and by demonstrating the technical aspects. After the interactive session, weight and BP of the mothers and their children were measured and recorded by the members under the supervision of Dr. Ghosh. Some medical feedback and remedial measures in case of emergency was provided by Dr. Ghosh, Dr. Rina Bhattacharya, Dr. Kalyani Mali, Dr. Sudha Gupta, Dr. Tanima Saha, Dr. Sujoy Mandal and Dr. Tapati Bhadra collected necessary feedback, personal and demographical information from the participant mothers with the help of an ‘Information Bank’, methodically prepared by Dr. Sudha Gupta. Videography of the entire programme was done by Sri Sukhenjoy Prasad Chaudhuri and Smt. Piyali Mitra.

At the end of the programme, some refreshment was there. Dr. Debjani Guha, the Director-in-Charge, on behalf of the University authority distributed some food-packets among the participant mothers and conveyed her heartfelt thanks to the teachers of the ‘Sishu Siksha Kendra’ for their sheer cooperation.



Interactive Session on Physical & Mental Health of both Mother and Child



**Health Check up Session for Rural Mothers and Children at Alaipur**

### **Activity – 3**

#### **Celebration of ‘International Women’s Day’ held on March 9, 2015**



**Hon'ble Vice Chancellor with Deans, D.O., DSW and Women Faculties in the International Women's Day Celebration Programme**

Prestigious ‘International Women’s Day’ was celebrated with gravity by the ‘Centre for Women’s Studies’, University of Kalyani on 9<sup>th</sup> March, 2015 at the Acharya Prafulla Chandra Savagriha, Administrative Building, University of Kalyani. The programme was started right at 11.00 a.m. with a soothing opening song by Dr. Dola Sarkar.

The main programme which was started with the welcome address of Director-in-Charge, Centre for Women’s Studies, University of Kalyani. Prof. Sumit Mukerji, Dean, Faculty of Arts, Commerce & Education made the audience familiar with the theme of the programme through his captivating speech. The audience was then really moved by the charming inaugural speech of the Hon’ble Vice-Chancellor, University of Kalyani. The ‘Centre for Women’s Studies’ invited a social worker named Smt Kalpana Das to felicitate on occasion of Women’s Day who takes an inspiring role in the society. Hon’ble Vice-Chancellor, University of Kalyani felicitated the rebellious social worker lady with flower bouquet and some gifts as a token of honour.

Prof. Sarbani Chaudhury, Department of English, Prof. Subhalakshmi Nandi, Department of Education and Prof. Sujata Sen, Department of Sociology of the University enriched the programme by their insightful thought provoking speeches. Dr Niladri Biswas, one of the members of Academic Committee of the Centre, presented a recitation tuned with the theme of the programme. Finally, the day was ended with a peaceful closing song by Dr. Dola Sarkar. Presence of dignitaries like Prof. Manas Kumar Sanyal, Dean, ETM, Prof. Sanjib Mridha, DSW and Sri Alok Ghosh, Development Officer, Smt. Gayetri

Chatterjee, Ex-Head Mistress of Kalyani Bidhan Girls' High School made the programme a successful one.

The entire programme was conducted by Prof. Swati De, one of the members of Advisory Committee of the Centre and video recording of the programme was done by Sri Amit Saha. At the end of the programme, an arrangement of some refreshments was there.

### **Activity – 4**

#### **One-day Orientation cum Health Sensitization Programme for Rural Young Mothers' held on April 10, 2015 at Kalyannagar, Chakdaha Block, Nadia**

One-day Orientation cum Health Sensitization programme for rural young mothers was organized by the Centre recently at 'Kalyannagar Sishu Siksha Kendra' situated at Madanpur, Chakdaha Block of Nadia district on April 10, 2015. A team consisted of some members of the Centre with an invitee Doctor was present there on 10.4.2015 at 11-45 am with some medical equipments like weight measuring machine and BP measuring tool. At the outset, Dr. Debjani Guha, Director-in-Charge of the Centre, in her short welcome address stated clearly the purpose of the programme and invited queries from the participant mothers. 37 young mothers in total from the locality with their little child were present and participated actively in the programme followed. It was a deliberate interactive session conducted by two resource persons, Dr. Subhalakshmi Nandi, Professor of Education, and Dr. Kasturi Bakshi, Doctor, ESI hospital, Kalyani and Secretary, KINSPERC. The interactive session concentrated on the issues related to physical and mental health care of both the mother and the child, adequate parenting, specifically mothering, for the better development of child personality and also various problems related to reproductive health of mothers. Dr. Bakshi presented an erudite speech and utilized the opportunity to prescribe a very healthy and nutritious but cheap-in-cost home-made tasty food for the child. She also advised the dos and don'ts in regard to Anemia and tried to develop awareness of participant mothers regarding de-worming. Dr. Nandi in her discourse emphasized on the development of mother-child emotional bond with some tips for child's intellectual and social development. During the session, other members of the Centre also took part and helped the mothers satisfied with their several queries by providing technical know-how from their end. After the interactive session, the weight and the BP of the mothers were measured under the guidance of Dr. Bakshi with the assistance of some of the members. Accordingly, medical feedback with remedial measures, when necessary, was also provided by Dr. Kasturi Bakshi. Prof. Rina Bhattacharya, Prof. Swati De, Dr. Nita Bandyopadhyay, Dr. Tanim Saha, and Dr. Tapati Bhadra collected the necessary feedback, personal and demographical information from the participant mothers with the help of an 'Information Schedule' which was also meticulously prepared by Dr. Sudha Gupta. Video recording of the entire programme was done.

At the end of the programme, some sort of food packets were distributed among the participant mothers and the Director-in-Charge of the Centre for Women's Studies, on behalf of the University authority, conveyed her heart felt thanks to the BMOH, ANM and other Health Personnel of Madanpur sub-centre, Chakdaha Block for their sheer cooperation.



Collection of Personal and Demographic Information from Participant Mothers



## Centre for Bengali Diaspora

1. **Name of the Department:** Centre for Bengali Diaspora
2. **Year of establishment :** 2015
3. **Is the Department part of a School/Faculty of the university? :** Faculty of Arts and Commerce
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** No program offered so far but Ph.D. program likely to be proposed in the near future.
5. **Interdisciplinary programmes and departments involved :** Not Applicable
6. **Courses in collaboration with other universities, industries, foreign institutions, etc. :** Not Applicable
7. **Details of programmes discontinued, if any, with reasons:** Not Applicable
8. **Examination System:** Annual/Semester/Trimester/Choice Based Credit System : Not Applicable
9. **Participation of the department in the courses offered by other departments:** Not Applicable
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others):** Proposal sent to UGC but no response received till date.
11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:** NA

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. Students guided for the last 4 Years
Dr. Sumit Mukerji	M.Phil., Ph.D.	Dean, Arts and Commerce and <b>Director, Centre for Bengali Diaspora</b>	Political thought, Terrorism, Identity Politics, Indian freedom Movement	28 yrs	Two Ph.D. students

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors :** Not Applicable
13. **Percentage of classes taken by temporary faculty – programme-wise information:** Not Applicable
14. **Programme-wise Student Teacher Ratio:** Not Applicable
15. **Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :** NIL
16. **Research thrust areas as recognized by major funding agencies:** An international seminar was organized on June 26, 2015 by the Center for Bengali Diaspora University of Kalyani in collaboration with Maulana Abul Kalam Azad Institute of Asian Studies entitled Offsprings of Bengal in Distant Lands, Quest of the Disanchored.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.: **An amount of Rs 1, 50,000 was sanctioned by Maulana Abul Kalam Azad Institute of Asian Studies for the above mentioned International Seminar.**

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration **NIL**

b) International collaboration: **NIL**

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : **NIL**

## 20. Research facility / centre with

a. state recognition

b. national recognition

c. international recognition

## Recognition Awaited from UGC

21. Special research laboratories sponsored by / created by industry or corporate bodies **NIL**

## 22. Publications:

☐ Number of papers published in peer reviewed journals (national / international): **3**

☐ Monographs

☐ Chapters in Books **7**

☐ Edited Books

☐ Books with ISBN with details of publishers: **2**

a) *Rebels of Kamrup, A Search for Identity among Ahoms and Rajbanshis*, A P H Publishing Corporation, New Delhi, 2015. 978-93-313-2537-2

b) *Gorkhaland: The Dormant Volcano*, A P H Publishing House, New Delhi, 2014. 978-93-313-2157-2

☐ Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

☐ Citation Index – range / average

☐ SNIP

☐ SJR

☐ Impact Factor – range / average

☐ h-index

**A book consisting of the papers presented in the international seminar of the Centre along with papers by other experts on the subject, is proposed to be published by the Publications Division of the University.**

23. Details of patents and income generated: **NIL**

24. Areas of consultancy and income generated : **NIL**

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad : **Director Prof. Sumit Mukerji was selected as member of the Nehru Fulbright International Administrators Seminar in Boston, New York and Poughkeepsie from October 24 to November 8, 2015.**

26. Faculty serving in

a. National committees b) International committees c) Editorial Boards d) any other (please specify):

**Prof. Sumit Mukerji is**

**Member, PG Board of Studies Netaji Subhas Open University, West Bengal.**

**Member, PG Board of Studies Sidho Kanho University, Purulia, West Bengal.**

**Subject Expert, PG Board of Studies, Gourbanga, University, Maldah, West Bengal**

**Member, Ph. D. Course Work Syllabus Committee, Gourbanga, University, Malda, West Bengal**

**Member, PG Board of Studies, Basanti Devi College, Kolkata, West Bengal**

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). NIL**

**28. Student projects**

a. percentage of students who have done in-house projects including inter-departmental projects

b. percentage of students doing projects in collaboration with other universities

1. industry / institute Not Applicable

**29. Awards / recognitions received at the national and international level by**

c. Faculty

d. Doctoral / post doctoral fellows

e. Students Not Applicable

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any. :**

The International Seminar entitled *Offsprings of Bengal in Distant Lands, Quest of the Disanchored* on June 26, 2015, was inaugurated by His Excellency, The Governor of West Bengal. Ms Helen Lafabve, Honble Consul General, United States of America and Mr. Zokey Ahad, Honb'le Deputy High Commissioner Govt of Bangladesh, were Guests of Honour and made presentations. Research papers were presented by Prof. Sanjukta Bhattacharyya, Dept of International relations, Jadavpur University and Prof. Somak Ray Chaudhury, Former Dean Natural Sciences, presidency University. Maulana Azad Institute for Asian Studies sanctioned an amount of Rs. 1, 50,000 for the seminar.

**31. Code of ethics for research followed by the departments : Not Applicable**

**32. Student profile programme-wise: Not Applicable**

**34. Diversity of students: Not Applicable**

**33. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : Not Applicable**

**34. Student progression: Not Applicable**

**35. Diversity of staff: NIL**

**36. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: NIL**

**37. Present details of departmental infrastructural facilities with regard to : NIL**

a. Library

b. Internet facilities for staff and students

c. Total number of class rooms

- d) Class rooms with ICT facility
- e) Students' laboratories
- f) Research laboratories

**38. List of doctoral, post-doctoral students and Research Associates : NIL**

- a. from the host institution/university
- b. from other institutions/universities

**39. Number of post graduate students getting financial assistance from the university: NIL**

**40. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. NIL**

**41. Does the department obtain feedback from : NA**

- i. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- ii. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- iii. alumni and employers on the programmes offered and how does the department utilize the feedback?

**42. List the distinguished alumni of the department (maximum 10): NIL**

**43. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. : The Centre envisages such programs in future.**

**44. List the teaching methods adopted by the faculty for different programmes.: NA**

**45. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? : NA**

**46. Highlight the participation of students and faculty in extension activities.: NIL.**

**47. Give details of "beyond syllabus scholarly activities" of the department : NA at present.**

**48. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : NA**

**49. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: The international seminar with which the centre was initiated, generated a wealth of information on the role and position of the Bengali Diaspora as well as its problems and prospects and also provided research insights for the subject.**

**50. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

**Strengths:**

1. The Centre is the first of its kind at least in India because while many Universities have centres for Diaspora Studies, this is the first centre devoted exclusively to Bengali Diaspora. It can enhance the national and international connectivity level of the University.
2. The Centre can mobilize national and international public opinion on the problems of Bengali Diaspora.
3. The Centre can generate research interest among young scholars on the subject.
4. It can facilitate inter disciplinary research
5. It can generate funds by undertaking Research projects.

**Weaknesses:**

1. The centre is yet to be recognized.
2. It is handicapped by lack of funds
3. It has inadequate infrastructure
4. The Centre has no separate office or building
5. It is without necessary equipment and other accessories.

**Opportunities:**

1. The Centre can initiate exchange programs with national and international universities.
2. It can invite eminent Guest Faculty the world over to deliver Special lectures.
3. The Centre can cultivate liaison with institutions of repute which may culminate in the conclusion of MOU.
4. It can provide international exposure to students and enable them to go abroad as part of Exchange programs.
5. It can organize seminars, Conferences and panel discussions.

**Challenges:**

1. Ensuring Publicity and Projection of the Centre.
2. Organizing programmes even before formal recognition.
3. Ensuring involvement and participation of experts national and international
4. Enkindling interest among students and motivating them to undertake research on the subject
5. Fund Mobilization through inter institutional collaboration

**51. Future plans of the department:**

1. Publication of Books on the Subject.
2. Publication of a Peer Reviewed Journal.
3. Organizing seminars, symposia, Conferences,
4. Offering Ph. D programmes
5. Developing a Library with a rich collection of Books on the Subject
6. Organizing Special Lectures

## Centre for Cultural Studies

Set up in 2014, the Centre for Cultural Studies, University of Kalyani is a forum for the critical engagement of serious academic discussions and practices that define the culture of a community. At a time when the larger academic world is looking forward to incorporate assumptions from a wide spectrum of pedagogy, the Centre is planning to hold activities that promote multiculturalism and interdisciplinarity. The Center has plans to hold activities that mark a convergence of cultural expressions that represent the technologized world and traditional forms of culture.

The Centre for Cultural Studies is thus planning to bring together students, teachers and scholars of various academic institutions through interactive programmes. The Centre took active part in sensitizing students in particular to participate in cultural activities organized on various occasions in the University and also in the 30<sup>th</sup> Inter-University East Zone Youth Festival held at Ranchi University.

The Centre in collaboration with the office of the Dean of Students' Welfare organized a week long inter-college/department cultural competition in the 1<sup>st</sup> week of September 2014 followed by the first ever Autumn Festival held on 26<sup>th</sup> September 2014.

The Centre organized a two-day UGC sponsored national seminar entitled "Negotiating and Tradition and (Post) Modernity: Recent Trends in Culture Studies" on 28 and 29 January, 2014.

Advisory committee for the Centre for Cultural Studies

- a) Prof. Sumit Mukherjee (Dean, Faculty of Arts and Commerce): Chairperson
- b) Dr. Niladri Biswas (Dept. of English): Member
- c) Dr. Debolina Debnath (Dept. of Folklore): Member
- d) Dr. Sujay Kumar Mondal (Dept. of Folklore): Member
- e) Dr. Dhrubajyoti Sarkar (Dept. of English): Member
- f) Dr. Sudha Gupta (Dept. of Botany): Member

Director of the Centre for Cultural Studies - Sandip Mondal

Office Staff- Anup Moitra



## *Extension and Outreach Activities*

# National Service Scheme, University of Kalyani

### *Activities of NSS:2013-14*

#### *University of Kalyani*

1. This year on 11<sup>th</sup> April a programme was organised by NSS on ‘Swami Vivekananda o Adhunik Bharatbarsher Jubosomaj’. Along with our respected V.C., Srimat Swami Purnatmanandaji Maharaj was present there to rise up the spirit. A huge participation of students, research scholars, teacher etc. led this programme to a grand success. As a joint venture of NSS, University of Kalyani and ASER (Annual Status of Education Report), a three-day training camp was organised on University premises on 24<sup>th</sup> September 2013. It was inaugurated by the Vice-Chancellor. The motto of the camp was to hold up a survey on Nadia’s rural life, health, education etc.

It was a huge success. 60 NSS volunteers from various colleges participated in this camp. The Vice-Chancellor discussed about the spirit of Ideology and Serving the distressed. He motivated the students to indulge themselves into helping others. On behalf of ASER, Mr. Nepola Saibom showed his enthusiasm seeing the participation. The camp survey was entirely successful and it helped ASER to make their report. The candidates participated in this camp are as follows:

2. A total of 12 students of our university were selected for state level trial of Pre-R.D camp 2013, held at 16/08/2013 at University of Kalyani campus. 6 of them got selected for participating state level camp. It was held at Vidyasagar University on 25/08/2013. Among them, Anupal Bhowmick has participated in East-Zone Pre-Republic day parade camp 2013 at Kolkata from 21<sup>st</sup> to 30<sup>th</sup> October 2013. 8 participants were selected for the Republic day parade camp in New Delhi from all over west Bengal, one of them was from University of Kalyani.

3. From 2<sup>nd</sup> to 7<sup>th</sup> December, 19 programme officers of our University joined a Orientation Training Camp organised by Ramakrishna Mission, Narendrapur.

The Programme Officers participated in the camp are as follows:

1. Arindam Mandal (Krishnath College)
2. Koushik Sengupta (Nabadwip Vidyasagar College)
3. Debjani Roychoudhuri (Kanchrapara College)
4. Mintu Mondal (Panchtupi Haripada Gouribala College)
5. Supam Mukherjee (Subhas Chandra Bose Centenary College)
6. Arindam Chakroborty (Sudhiranjan Lahiri Mahavidyalaya)
7. Sanjay Sarkar (Sudhiranjan Lahiri Mahavidyalaya)
8. Muslem Uddin Molla (Chapra Bangalji Mahavidyalaya)
9. Malay Kumar Ghosh (Rani Dhanya Kumari College)
10. Tushar Patua (Teacher, Dept. Of Bengali, University of Kalyani)
11. Ranjan Banerjee (Bethuadohori College)
12. Kutub Uddin Biswas (Jatindra-Rajendra Mahavidyalaya)
13. Tanwi Ghosh (Ranaghat College)
14. Sujata Bandapadhaya (Lalgola College)
15. Purna Chandra Halder (Kalyani Mahavidyalaya)



16. Dr. Kanailal Mondal (Kalyani Mahavidyalaya)
17. Sariful Islam (Nagar College, Murshidabad)
18. Prasenjit Nanda (Sripat Singh College, Murshidabad)
19. Urmi Mitra (Krishnagar Govt. College, Nadia)

4. From 10<sup>th</sup> to 20<sup>th</sup> January 2014, 10 volunteers of 5 colleges under University of Kalyani participated in a Adventure Camp in Solang, Manali. The camp was organised by ATAL BIHARI BAJPAYE MOUNTANRING INSTITUTE. There were 5 Girls and 5 boys. In the camp they learnt Trekking, Rock Climbing, River Rafting, Skiing etc. Apart from adventure sports they also experienced being self depended through programmes like “Make Your Own Dinner”, “Know Your Neighbours” etc. This camp evoked a sense of Nationality within them.

Dustbins were placed in the campus. Among them 50 Dustbins were outdoor type (Stand) and 100 were mobile/wheel Dustbin. This was a part of Campus Cleanliness and Beautification curriculum.

12 Frame and Glass Board, 8 Guide Maps, 1 Triangular Display Boards and 50 Sun Boards were also placed on behalf of NSS, University of Kalyani. Frame & Glass Board (2’x3’) were placed in Vice-Chancellors’ room (3), Registrar office (3), Controllers’ room (3) and Inspector of Colleges room (3) In Vice-Chancellors’ meeting room, 3 wood photo board (39” x 56” with ½ inch ply back) were placed. 2 similar boards were set up at the front corridor of administrative building. 8 guide maps (vinyl pasted glow sign) were set up in various places in the campus. 50 Sun boards

with vinyl pasting and Iron stand were placed all over the campus. These boards contain slogans and one-liners on campus cleaning, saving environment and healthy behaviour inside campus. A Triangular Display Board (5’x8’, vinyl print and polymer sheet) were placed in front of the Administrative building.

5. In collaboration with the Ministry of Youth & Sports Affairs, Govt. of India NSS organised the nationwide lunch of “Rajiv Gandhi Khel Avijan” & “National Youth Policy-2014” on 21.02.2014. Honourable Vice-Chancellor inaugurated the programme in Vidyasagar Sabhagriho. This programme was to motivate the youth of our country. The motto of this policy was Youth Empowerment, Promoting Sports and All Round Development of New Generation. The volunteers organised a Rally with poster, Slogans, Flexes etc from Administrative Building to Central Park Kalyani. Apart from volunteers, university officials and students also joined in the Rally without hampering the usual academic/administrative activities of the university. Along with University of Kalyani, all the Universities of India celebrated this launching programme on the same day

6. Over 100 volunteers of NSS from Kanchrapara College & Education Faculty of University of Kalyani guarded the Kalyani University Campus form trespassers on 14<sup>th</sup> and 15<sup>th</sup> March 2014. During the fair of ‘Sati Ma’ at Ghosh Para, numerous visitors use to trespass through the campus and cause a chaos in educational environment. This year the volunteers prevented them and helped to keep the campus intact. They also helped the visitors to enjoy the fair without any disturbance.

#### **7. Red Ribbon Club:**

With the collaboration of West Bengal State AIDS Prevention & Control Society, from the year 2012-13, NSS K.U. has started Red Ribbon Club in order to spread awareness about AIDS – an uprising problem in India. Like previous year, this year also 30 colleges/units joined this club.

#### ***Activities of NSS:2014-15***

#### ***University of Kalyani***

University of Kalyani is a part of National Service Scheme since many years. In University campus 4 NSS Units are actively performing. This year about 32 colleges, 46 units and 5000 volunteers under NSS, K.U., along with the 4 units of our own University has taken part in various activities. Most important activities performed by NSS volunteers are mentioned below:



**Days:**

1. National Youth Day, 12<sup>th</sup> January
2. Republic Day, 26<sup>th</sup> January
3. Martyr Day, 30<sup>th</sup> January
4. International Women Day, 8<sup>th</sup> March
5. World Health Day, 7<sup>th</sup> April
6. Anti-Terrorism Day, 21<sup>st</sup> May
7. World No Tobacco Day, 31<sup>st</sup> May
8. World Environment Day, 5<sup>th</sup> June
9. World Population Day, 11<sup>th</sup> July
10. Independence Day, 15<sup>th</sup> August
11. Sadhbavana Day, 20<sup>th</sup> August
12. International Literacy Day, 8<sup>th</sup> September
13. International Peace Day, 15<sup>th</sup> September
14. NSS Day, 24<sup>th</sup> September
15. National Blood Donation Day, 1<sup>st</sup> October
16. Communal Harmony Day, 2<sup>nd</sup> October
17. National Integration Day, 19<sup>th</sup> November
18. World AIDS Day, 1<sup>st</sup> December,
19. World Human Right Day, 10<sup>th</sup> December

**Weeks:**

1. National Youth Week, 12-19<sup>th</sup> January
  2. Van Mahotsava Week, 1-7<sup>th</sup> July
  3. International Literacy Week, 8-14<sup>th</sup> July
  4. Quami Ekta Week, 19-25<sup>th</sup> November
- A 7 Day Training & Orientation Course organized by TORC, Narendrapur Ramakrishna Mission was held in association with NSS, K.U. It was inaugurated on 21.7.2014 and ended on 28.7.2014. The camp was for NSS Programme Officers, who run the NSS Units in various colleges. In the occasion of Autumn Festival, K.U., a Booklet was published named 'Recourse and Research' from NSS bearing the detailed report & photographs of this Training Camp.

The Programme Officers who participated in this Training & Orientation Programme are as follows:

SL. No.	Name	College Name
1.	Ratnabali Biswas	Berhampore Girls' College
2.	Susanta Sarkar	Dept. Of Physical Education, K.U.
3.	Nakul Chandra Bain	Dwijendralal College
4.	Manasi Maiti	SRL Mahavidyalaya
5.	Dr. Sanjoy Mitra	RBC College
6.	Susanta Ghosh	Chakdaha College
7.	Santanu Das	Sri Krishna College
8.	Chandrani Ghosh	Sri Krishna College
9.	Balai kanti Saha	Haringhata Mahavidyalaya
10.	Ashim Singha	Haringhata Mahavidyalaya
11.	Biswanath Chatterjee	Haringhata Mahavidyalaya
12.	Dr. Sumana Roy	Haringhata Mahavidyalaya
13.	Sankar Som	Santipur College
14.	Sushendu Biswas	Jangipur College
15.	Pulakesh Sen	DNC College
16.	Aliul Hoque	Chakdaha College
17.	Abhijit Mukherjee	Chakdaha College
18.	Dr. Tapas Kr. Chakraborty	Rishi Bankim Chandra College
19.	Chinmoy Biswas	Rishi Bankim Chandra College
20.	Sri Sujit Kundu	Assannagar MMT College
21.	Baijoyanti Ghosh	Krishnagar Women's College
22.	Sudpita Das	Krishnagar Govt. College
23.	Gautam Srakar	SRF College
24.	Abdul Kader Ahammed	Sripat Singh College
25.	Amal Modak	Sripat Singh College
26.	Rafikul Islam	RBC College
27.	Debjyoti Acharchee	RBC College
28.	Pranab Biswas	RDK College
29.	Debasis Bandyopadhyay	Dumkal College
30.	Sukdeb Pal	Karimpur Panna Devi College

- In the previous year we have published a booklet bearing the Annual reports of various colleges under NSS, K.U. and the report of University's own NSS activities. This year we are also publishing the reports along with photographs.

On 15<sup>th</sup> August 2014, NSS, University of Kalyani observed the Independence Day in the University campus. After National Flag hoisting and PT parried, cultural programmes were performed by the students. Our honorable VC inaugurated the ceremony. Students from 4 Units in our University participated this occasion.

- On 25.08.2014, the Pre-RD selection camp was held in our University. NSS volunteers from all the colleges under University of Kalyani were participated in the camp. Best 12 NSS volunteers were sent to the State Level Selection Camp on 7.9.2014 organized by Vidyasagar University at Kharagpur College, Kharagpur, Midnapore East. Our volunteer Durga Shaw has been selected for the Republic Day Parried in New Delhi (26<sup>th</sup> January 2015) in presence of the Honorable President and PM of our Country.

The volunteer participated in the State Level Selection Camp are as follows:

**Cultural:**

1. Jaydeep Pal – SCBC College, Lalbagh, MSD
2. Bipasha Kundu -- Nabadwip College, Nadia
3. Parna Dutta – SCBC College, Lalbagh, MSD
4. Anamika saha – Lalgola College, MSD
5. Sanjukta Dutta – Kanchrapara College, North 24 PGS

**Waiting:**

1. Jannatun Ferdosh -- Lalgola College, MSD

**PT-Parade:**

1. Biswajit Tiwari -- Kanchrapara College, North 24 PGS
2. Suraj Kumar Prasad -- Kanchrapara College, North 24 PGS
3. Durga Shaw – Lalgola College, MSD
4. Anarul Sarkar -- Bethuadahari College, Nadia
5. Mostafijur Rahaman – DNC College, Aurangabad

**Waiting:**

1. Ismail SK – Bethuadahari College, Nadia
- A 3-day Training Camp was organized as a joint Venture of NSS, K.U. and ASER, New Delhi. It took place on and from 01.09.14 to 03.09.14. The Camp was on 'Rural Health & Education in Nadia District.' In this session, ASER has arranged such a camp on 2013. As they found us extremely cooperative, this year also they invited our collaboration. NSS volunteers participated here and gathered knowledge about collecting data on Rural Health and Education. In their annual report they are going to add the data collected by NSS volunteers of our University, as they did last year.
  - On 7<sup>th</sup> and 8<sup>th</sup> August 2014, NSS sponsored the Fresher's Welcome and Students' Orientation Programme organized by Students' Union, University of Kalyani. This was organised in Vidyasagar Sabhagriha. It was arranged just after the admission procedure of this academic year. It was to motivate the new students towards the true sense of education.
  - In the month of 16<sup>th</sup> July, 2014 as a joint venture of NSS, K.U. and the DSW, (K.U), a seminar was arranged on Anti-ragging. Ragging is a burning issue of now-a-days. The seminar was to aware students so that they feel the spirit of friendship and refuse to rag anyone.
  - In the current session on 16.09.2014, NSS was ordered to open Compulsory NSS units in all colleges under Kalyani University. This is to evoke the spirit of helping others among the youths of Nadia, Murshidabad and North 24 Pgs District. This added two thousand new volunteers to NSS, which acted like a new birth.
  - As a part of our honorable PM's 'Swachh Bharat Abhiyan', a Cleaning Drive was held on 31.10.2014 at 11.00 am in front of the Administration Building, University of Kalyani organized by NSS Cell, K.U. The Cleaning Drive covered the whole University Campus. The Volunteers walked in front of all departments and cleaned the Campus. A Rally bearing Banners and Placards was organized. An Awareness Programme was also taken to motivate the local people living around the campus. Few saplings were planted in various places on the campus greens.

- 50 Sun Boards were placed on behalf of NSS on the campus. These boards are on Anti-ragging, Anti-addiction, Clean Environment, Saving water etc. These boards are for the awareness of the outsiders to keep the educational environment intact. It is also to motivate the students, so that they know their duties towards University.
- On 12<sup>th</sup> November 2014 the NSS Cell, University of Kalyani organized a one-day training programme in association with NCRI, Hyderabad entitled as 'Motivation of Youth for Inspiring Rural Reconstruction'. This programme was inaugurated by the honourable Vice-Chancellor, University of Kalyani Prof. Rattan Lal Hangloo at 10.30am in the presence of various faculties and students. 80 Participants including Students, Scholars & Faculty members participated in this training programme.
- On 25<sup>th</sup> November 2014, NSS & Centre for Culture Studies of K.U jointly organized a Communal Harmony Programme-2014 .The programme was inaugurated by the Dean, arts & Commerce Faculty Prof. Sumit Mukherji at 2.00 pm .This programme was arranged to spread the awareness of Communal harmony among the University personals. Dr. Sanjib Mridha, DSW, K.U, Chief Proctor, K.U. Prof. Sujata Chaudhury delivered their speech on this topic.
- In the month of January one of our NSS Volunteers, Anjan Ballav of Bethuadahari College participated in the National Youth Festival which took place in Majuli, Jorhat, Assam. Here, students from all over the nation come and show their talents. NSS, K.U has become a part of that pride. Our two NSS volunteers Pratima Ghosh & Tanmoy Mondal of Haringhata Mahavidyalaya successfully participated in the 2015 National Youth Festival Programme. On 23<sup>rd</sup> January, 14 of our NSS Volunteers and 1 Programme Officer participated in the State Level NSS Camp in Cultural programmes at Presidency University Campus, Kolkata. This programme is a celebration of National Integration.
- NSS, University of Kalyani observed the Republic Day on 26<sup>th</sup> January 2015 in the university campus. Our Honourable VC inaugurated the programme by National Flag Hoisting. Volunteers from 4 units took part in the parried, rally and Cultural programme. All the teachers, students and staffs from the University and all the programme officers participated in it.
- On 20<sup>th</sup> February, A seminar on Communal Harmony & National Integration was organised by NSS, K.U. Prof. Rattan Lal Hangloo, honourable Vice Chancellor, K.U. inaugurated the programme. University Dean, Arts & Commerce Faculty, K.U. Prof. Sumit Mukherjee and DSW, K.U. Prof. Sanjib Mridha were present there as our Honourable Guests and Speaker. Cultural Programmes were performed by the Volunteers of Haringhata Mahavidyalaya and Chakdaha College.
- In the first week of March NSS Volunteers of our University Guarded the Campus during the famous 'Sati Mayer Mela'. They also maintained the discipline and took care of the pilgrims in the fair.
- On 10<sup>th</sup> to 11<sup>th</sup> March NSS organized a Two Day International Seminar named 'Vivek Chetana' in Vidyasagar Sabhagriha, K.U. It was sponsored by Ministry of Sports & Youth Affairs, Govt. of India. The Seminar was based on Life and Works of Swami Vivekananda. It was inaugurated by our Honourable Vice Chancellor, Prof Rattan Lal Hangloo. As the esteem speaker we had Swami Sarvagananda (Secretary, RKM Ashrama, Narendrapur), Sri Ranjan Bandyopadhyay (Renowned Author), Dr. Malaya Gangopadhyay (Ex-Professor, Melbourne University, Melbourne, Australia), Swami Sandarshananda (RKM Ashrama, Narendrapur) and Sri Pradeep Patnaik (Youth Officer, NSS Regional Centre (W.B. & Sikkim), Govt. of India). The Seminar was also included paper reading sessions. A Booklet containing Abstract. Approx 450 Students, Scholars & Teachers participated in the seminar.

- On 30<sup>th</sup> March 2015 NSS annual Conference was held in Vidyasagar Sabhagriha, K.U. It was inaugurated by the DEAN, Arts & Commerce Faculty, K.U. Prof. Sumit Mukherji. Barun Aggarwal (Director, BHAKTIVEDANTA Institute) delivered his speech on 'What is Life: Scientific & Spiritual Perspectives'. The Department of Theatre, University of Rajshahi, Bangladesh were invited for a Drama Performance. They performed 'Rabibar' (based on a short story of Rabindranath Tagore), Director, Arif Haider is a Lecturer of the Department of Theatre, University of Rajshahi, Bangladesh. He also shared his experience before the Drama. Prof. Manas Majumder (Ex-Professor, Dept of Bengali, C.U.) delivered a short speech on 'Rabibar'. Programme Officers from all the colleges under NSS Unit, K.U. were present in the Conference to consulting various issues of NSS.

### General Programmes:

NSS of the K.U. is organising different service programmes throughout the year 2013-14 as follows:

1. Blood Donation Camp -04
2. Thalassaemia Detection Camp -01
3. Red Ribbon Club (AIDS) Awareness Programme : 04
4. Tree planted Programme- 300 saplings
5. N.S.S. Day Celebration
6. World AIDS Day-04
7. Independence Day Programme Celebration 2015
8. Pre RD Camp : 01
9. Republic Day Celebration
10. International Seminar on Vivekananda

- Thalassaemia Detection Camp:**

NSS organised a Thalassaemia detection camp this year. Thalassaemia is a disease which is transferred through blood. It is a genetic disease which can even attack the baby in mothers' womb. A man can be a patient or a carrier of Thalassaemia. The only possible way to stop this disease is the proper detection and treatment. Through the collection of blood samples and examining, this disease can be detected. That is why NSS prioritise this camp.

- Blood Donation Camp:**

NSS, K.U. has organised 4 blood donation camps this year. Each of the 4 units of our University arranged these camps. Blood donation is the only way to supply fresh blood to the diseased people. The only place where blood is manufactured is human body. If we stop donating blood, many lives will suffer. To motivate young students and to increase blood donation, these camps were organised. Both male and female students took part in it. After proper health check up, doctors chose the donors. Many units of fresh blood were collected from these 4 camps.

- Red Ribbon Club:**

Acute Immune Deficiency Syndrome (AIDS) is sexually transmitted disease which targets the youth. But diagnosis in proper time can fight back the death. To spread AIDS prevention Awareness West Bengal Govt. launched West Bengal State AIDS Prevention & Control Society. Red Ribbon Club is an initiative where students make themselves aware about AIDS and spread the knowledge they have.

From the year 2012-13, NSS K.U. has started Red Ribbon Club with the collaboration of West Bengal State AIDS Prevention & Control Society. This club organizes awareness activities on AIDS. They arrange seminars, door to door campaign, audio-visuals shows and many more. They often organize question answer sessions where students can ask anything they wish without hesitation. Each year 30 NSS units participate in Red Ribbon Club Activities and arrange various programmes.

Colleges participating in Red Ribbon Club Programme are as follows.

Arts & Commerce Faculty, University Of Kalyani; Asannagar Madan Mohan Tarkalankar College ; Berhampore Girls' College ; Bethuadahari College ; Chakdaha College ; Chapra Bangalji Mahavidyalaya ; Dukhulal Nibaran Chandra College ; Dumkal College ; Education Faculty, University of Kalyani ; Eng. Tech & Management Faculty , University of Kalyani; Haringhata Mahavidyalaya ; Hazi A.K. Khan College; Jangipur College ; Jatindra-Rajendra Mahavidyalaya ; Kanchrapara College ; Krishnagar Govt. College ; Krishnagar Women's College; Lalgola College ; Nabadwip Vidyasagar College ; Nagar College ; Panchthupi Haripada Gouribala College ; Raja Birendra Chandra College; Ranaghat College ; Rani Dhanya Kumari College; Sagardighi Kamada Kinkar Smriti Mahavidyalaya ; Science Faculty, University of Kalyani ; Sewnarayan Rameswar Fatepuria College ; Sripat Singh College ; Subhas Chandra Bose Centenary College ; Sudhiranjan Lahiri Mahavidyalaya ;

- NSS unit, University of Kalyani has observed World Environment Day on 5<sup>th</sup> June, 2015 by the instructions of NSS regional Office. In the morning at 11 a.m., the Honourable Vice Chancellor of K.U. inaugurated the ceremony by planting a sapling. All the faculty members, students and Scholars who were present planted saplings in front of the Administrative Building. A Rally was organised carrying a banner. The rally walked to all the departments of the University. The Vice Chancellor, Registrar and Respectable Officials of Various departments planned about keeping the Environment intact and making it greener. More than 200 New Saplings are yet to be planted during this monsoon in the University Campus. Also few pictures of the Programme are here attached with.

- **World Yoga Day on 21<sup>st</sup> June 2015**

NSS unit, University of Kalyani has observed World Yoga Day on 21<sup>st</sup> June 2015. In the morning at 7 am start the program. Honourable Vice Chancellor of K.U. also present here. More than three thousand members were participating in the Yoga. The venue of the program was University ground, in front of K.U. gymnasium. A rally was organized carrying a banner. The rally move University ground. The Vice Chancellor, Dean (Arts & Commerce Faculty), Programme Co-Ordinator, NSS was also participate that rally. Few photograph of the program are here attached with.

- **26<sup>th</sup> June Inauguration of the NSS Annual Report & Activities (General & Special Campaigning 2014-15)**

- **Helping Flood Victims**

A situation of devastating flood came up during the month of August. It affected districts like Murshidabad, Noth 4 Pgs including Nadia. Thousands of homeless flood victims took shelter in the University premise and Classrooms and lived there for several days. During this natural calamity, NSS volunteers helped them to live in a better state. They applied bleaching powders in the area, cleaned the campus, supplied pure water and basic medicines. They helped the victims to survive until the flood was over.

- **NSS International Youth Day & 1<sup>st</sup> Convocation:**

National Service Scheme, University of Kalyani observed International Youth Day with a collaboration of WBSAP & CS on 12.8.2015 at Vidyasagar Sabhagriha, K.U. Honourable Vice Chancellor of K.U. Prof. Rattan Lal Hangloo inaugurated the programme. NSS also arranged its 1<sup>st</sup> Convocation to celebrate International Youth Day. In the inaugural speech, Prof. Hangloo put stress on the Youth-oriented activities by NSS. He mentioned that both teachers and students have responsibilities even outside the class. We all are part of the society. NSS is the medium through which the young students can perform social duties. He stated how NSS, KU is continuously working on and off campus, using the youth power.

Chief Guest Swami Suparnananda, secretary, RKM Ashrama, Golpark delivered his speech. There he talked about a proper teacher-student relationship. He said to shape up young minds, intellect must be a combination of Heart and Brain. Only Brain oriented intellect is as useless as a knife without its base. To do well to others, a student must feel with his heart and think with brain. That is how complete knowledge comes. Programme Coordinator, NSS, KU Prof. Sukhen Biswas stated about the youth oriented activities of NSS. The volunteers often organize programme and seminars on ADIS,



Thalassaemia, Polio etc. Addiction is a curse for youth. They also campaign against it. All round the year they spread awareness and organize Blood Donation Camps. NSS does it all with its young volunteers and enthusiastic programme officers.

Youth Officer, WBSAP & CS Smt. Piyali Das talked about the Govt. Policies and outlook towards Youth Empowerment. An AIDS Survivor as person and WBSAP & CS official Jagadish Jana spoke about his own experience with AIDS. He stated how his team works to eradicate this deadly disease and to save the Youth. He spoke how one can detect AIDS, get treatment and inform others about this. Only awareness can finish this issue, so he put stress on mass campaign.

In the 1<sup>st</sup> NSS Convocation, awards were given to the Best NSS Volunteers under each unit, Best Programme Officers of Nadia, Murshidabad and North 24 prgs, Best College under University of Kalyani. A special award was given to a volunteer for outstanding performance. Programme Officers, Students and volunteers from all the colleges under K.U were present there. University Dignitaries, Officials, Professors and Students were also present. This was a celebration on Youth. Young mind can be easily touched by others pain. That is why they can serve the Nation best. This entire programme was to encourage them to selfless service and motivating our Young minds.

- **Swachh Bharat Aviyaan:**

A team from Door Darshan India came to the University of Kalyani on 9<sup>th</sup> & 10<sup>th</sup> September 2015. They came and recorded the activities of NSS Volunteers under the PM's Swachh Bharat Aviyaan. They were highly pleased by the cleanliness of the campus and the enthusiasm of the volunteers. Along with cleaning drive, a drama was performed in order to spread awareness. They also recorded how the VC and Officials think about it. This was telecasted on Door Darshan I both Bengali and Hindi.

- **Pre-RD Camp**

On 26.09.2015, the Pre-RD selection camp was held in our University. NSS volunteers from all the colleges under University of Kalyani were participated in the camp. Best 12 NSS volunteers were sent to the State Level Selection Camp on 26.09.2015 organized by Vidyasagar University at Burdwan University at Rajbati, Burdwan.

- **7-Day Training & Orientation Course for Programme Officers:**

This year TORK, Ramakrishna Mission Ashrama, Narendrapur and NSS Cell, K.U. jointly organise the 7 Day Training and Orientation Camp for Programme Officers. The Camp was organised from 29.11.2015 to 05.12.2015. our honorable Vice Chancellor Prof. Rattanlol Hangloo inaugurated the Camp. On behalf of TORK, Sri T.K. Panda and Sri Amitava Khandait were present during the camp. 45 NSS Programme Officers from various College & Universities participated in the camp.

- **World AIDS Day**

World AIDS Day was observed by NSS on 1<sup>st</sup> December 2015. Nss organize this day each year in order to spread awareness on AIDS among common mass. On this day NSS Volunteers organised Rallies with Banners and Posters. Seminar including interactive sessions were organized. Various students participated in it and got answers of many questions.

Students Orientation Programme:

On 14<sup>th</sup> and 15<sup>th</sup> December 2015, NSS organized Orientation Porgamme with the Students of K.U. DSW, K.U. was present in this Programme. Here Students learned about NSS nad was motivated to Social Service. Student from various colleges under KU participated here.

# **DIRECTORATE OF OPEN AND DISTANCE LEARNING (DODL)**





## 1) Preamble

Open and distance education system is a crucial vehicle in the sustained development of a knowledge society. The Government of India's strategy during 12th Plan period (2012-2017) includes a series of initiatives in the field of higher education with due emphasis to the distance education programme in the country. It has been envisaged by the Government of India that the targeted enrolment in higher education at the end of 12<sup>th</sup> Plan period would be more than 30.74 million in addition to 5.2 million in distance education. Directorate of Open and Distance Learning (DODL) of the University of Kalyani, established during the academic session 2006-2007 with the aim of overcoming the socio-economic and geographical bindings in getting higher education,, has already earned reputation in providing an alternative means for education to those learners who for one reason or the other can not avail the opportunities of higher education provided through the regular mode. DODL has used its open and distance learning system to reach in different districts of West Bengal by envisaging a strong network 24 study centres at these places. All the existing courses conducted by the DODL are recognized by the University Grants Commission (UGC), Distance Education Bureau (DEB).

## 2) Courses Offered

M.A. in Bengali, English, History, Education and Public Administration

## 3) Recognition of Courses

All the courses conducted by the DODL are recognized by the Distance Education Bureau (DEB), UGC.

## 4) Enrolment of students

Academic Sessions	M.A Courses	Total Students	
		Part-wise	Total
2008-2009	Part-I	6475	10034
	Part-II	3559	
2009-2010	Part-I	9383	13522
	Part-II	4139	
2010-2011	Part-I	9770	16401
	Part-II	6631	
2011-2012	Part-I	8822	16260
	Part-II	7438	
2012-2013	Part-I	11139	17845
	Part-II	6706	
2013-2014	Part-I	10101	18346
	Part-II	8245	
2014-2015	Part-I	8364	16019
	Part-II	7655	
2015-2016	Part-I	6443	6443
	Part-II	*	

\* Students are not admitted into M.A. Part II course, 2015-2016 session, as the examination in M.A. Part I course, 2014-2015 session is scheduled to be held from 21<sup>st</sup> February, 2016.

## 5) Learner Support Services

### 5.1. Decentralized Support Units (Study Centres)

A Study Centre is a device of giving learning /academic support and learning opportunities to distance learners by replicating or by renting some of the campus facilities-academic as well as physical – of a conventional college or university. DODL has established a strong network of following 24 study centres to reach out to its students located in the districts of Nadia, Murshidabad, Malda, North 24-Paraganas and Kolkata. More study centres are going to be opened in different parts of West Bengal in order to widen the network of study centres of the DODL:

Code No.	Name and addresses of Study Centres	Courses offered
KU	University Main Campus, B-12/195, Kalyani, Dist. Nadia.	M.A. in Bengali, English, History, Education, and Public Administration
01	Dwijendralal College, Krishnanagar Dist. Nadia.	M.A. in Bengali, English, History and Education.
02	Haringhata Mahabidyalaya, Subarnapur, Dist. Nadia.	M.A. in Bengali, English, History, and Education
03	Srikrishna College, Bagula, Dist. Nadia.	M.A. in Bengali, English, and History
04	Subhas Chandra Bose Centenary College, Lalbag, Dist. Murshidabad.	M.A. in Bengali, English, History and Education
05	Rishi Bankim Chandra College for Women, Kanthalpara, Naihat, 24 Parganas(North).	M.A. in Bengali, English, History and Education
06	R. K. V.M.Saradama Girls College, Talikhola Barasat.	M.A. in Bengali, English, History and Education
08	Dr. B. R. Ambedkar College, Betai, Dist. Nadia.	M.A. in Bengali, English, History, and Education
10	Kanchrapara College, Kanchrapara, Dist. North 24pgs.	M.A. in Bengali, English, History and Education
11	S. R. Fatepuria College, Beldanga, Murshidabad—742133.	M.A. in Bengali, English, History, and Education.
12	Dinabandhu Mahavidyalaya, Bangaon, Dist. North 24pgs.	M.A. in Bengali, English, History and Education
13	Dumdum Motijhil Rabindra Mahavidyalaya, 208/B/2, Dumdum Road, Kolkata-700074. Phone: 033-25515921	M.A. in Bengali, English, History and Education
14	Nabadwip Vidyasagar College, Pucatola Road, Nabadwip, Dist. Nadia.	M.A. in Bengali, English, and History
15	Acharya Prafulla Chandra College, New Barrackpore, Dist. North 24 Pgs.	M.A. in Bengali, English, History and Education
16	Berhampur College, 20, C. R. Das Road, Murshidabad-742101.	M.A. in Bengali, English, and History
17	Kalyani Mahavidyalaya, City Centre Complex, Kalyani, Dist. Nadia.	M.A. in Bengali and Education
19	Sripat Singh College, Jiaganj, Dist. Murshidabad.	M.A. in Bengali, English, History, and Education
20	Sir Gurudas Mahavidyalaya, 33C/1 B. B. Ghosh Sarani, Ultadanga., Kolkata- 700067.	M.A. in Bengali, English, inHistory and Education
21	New Alipore College, L. Block, New Alipore, Kolkata-7000 53.	M.A. in Bengali, English, History and Education
22	Prof. S. Nurul Hasan College, P.O. Farakka Barrage, Dist. Murshidabad.	M.A. in Bengali, English, History and Education
23	Malda Women's College, P.O. & Dist. Malda, Pin Code: 732101.	M.A. in Bengali, English, History and Education
24	Dumkal College, P.O. Basantapur Dist. Murshidabad.	M.A. in Bengali, English, and History

## 5.2. Self-Learning Materials (SLM)

A major quality concern of any open and distance learning institution is to develop quality self-learning materials (SLMs), which help a learner to easily access and assimilate the contents. Distance learners usually depend a lot on SLMs because they have to learn on their own, at a time, pace and place of their own choice. Printed SLMs on all the courses as prepared by best available experts in the subjects have been supplied to the students from DODL head quarter and respective study centers. While these learning materials give the students the required academic guidance, they have been advised to supplement their reading at home by going through the prescribed texts and consulting the suggested reference works as far as possible.

### 5.3. Personal Contact Programme (PCP)

DODL has utilized the most efficient principles and practices of education to implement objective-based teaching-learning processes through the personal contact programme (PCP). The meaning of 'personal contact programme' (PCP) in Open and Distance Learning is quite different from the formal classroom teaching. The use of the word 'contacts' rather than 'teaching, itself makes a categorical distinction between the traditional classroom teaching and the PCPs. DODL has provided the opportunity to its distance learners for face-to-face interaction with the academic counsellors by means of organising PCP as per a pre-determined schedule. These PCP sessions have facilitated face to face interaction between the learners and the subject experts appointed and engaged by the university for these specific purposes. Students are informed beforehand to enable themselves to join such programmes and each student is expected to attend at least 60% of the total PCPs held.

### 5.4. Assignments

One of the teaching aids of open and distance learning (ODL) mode is assignment. Responses to assignments on lessons/ topics are submitted by the students to the academic counsellors to get feedback of the progress of their learning on the basis of the SLM supplied. Students are asked to send answers to these assignments to the respective study centres on time bound programme basis. Marks awarded on the assignments will count towards the continuous evaluation of the students learning and is reflected in the mark sheet of the final examination.

### 5.5. Library Facilities

All students of the DODL are eligible to use the Central Library of the University of Kalyani. Students of the DODL have used the library reading room and availed the facilities of borrowing books against a deposit of caution money.

## 6) Manpower

DODL is endowed with one full-time core faculty for each programme. The details of each faculty are furnished below:

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Phil. students guided for the last 4 years
Dr. Rajsekhar Nandi	M.A., P.h.D	Core Teacher cum Coordinator in Bengali	Drama	8 years	Not Applicable
Ajit Rabi Das	M.A in History	Core Teacher cum Coordinator in History	Women Studies, Ecology & Environment,	8 years	Not Applicable
Binayak Dey	M.A in Education, MBA.	Core Teacher cum Coordinator in Education	Educational Technology	2 years	Not Applicable
Saikat Majumder	M.A in English, B.Ed.	Core Teacher cum Coordinator in English	William Shakespeare	2 years	Not Applicable

Apart from this, the provisions for adequate number administrative and supporting staff are made in the DODL.

### 7) In-service Training for Staff

In accordance with the policy for staff development programme, a series of computer training programmes were undertaken for capacity building of the DODL staff and other associated staff of the university.

## 8) Seminars/Workshops organised

- June 29, 2010: National Seminar on Emerging Challenges of Dual Mode Universities: The NCHER Bill, 2010'
- **March 30, 2013: National Seminar on 'Quality Issues in Distance Education'.**
- **March 31, 2014: DEB-UGC sponsored National Seminar on "Standardization of Distance Education" organized by the Directorate of Open and Distance Learning, University of Kalyani.**
- **September 15, 2015: Workshop on "ICT-enabled Distance Education: Implementation at DODL, Kalyani University" was organized.**

## 9) Participation in Seminars/Workshops

- Sri Dibyendu Bhattacharya, Assistant Director of the DODL participated in the national conference on "Open and distance learning with special focus on online learning", organized by Symbiosis Centre for Distance Learning, Pune September 19, 2014.
- Prof. Juran Krishna Sarkhel, Director of the DODL participated in the National Seminar to deliver an invited lecture on "Learner Support in Open and distance Learning", and Chaired a Technical Session on "Networking and Resource Sharing: Library Extension Service", organised by the School of Humanities and Social Sciences, Netaji Subhas Open University, Kolkata on June 07, 2014.

## 10) Ongoing Initiatives

### 10.1. Opening of New Courses

The thrust of the DODL is to launch more post graduate courses having pressing demand of the students and necessary steps in this direction have already initiated. Processes have already been initiated for opening of following new courses under distance:

- M. Sc. in Dietetics and Community Nutrition Management
- M. Sc. in Electronics and Optoelectronics
- M. Sc. in Mathematics
- M. Sc./ M. A in Geography
- M. A. in Sanskrit
- Diploma in Health care and Hospital Management

### 10.2. E-learning

DODL is in the process of entering into E-learning domain on the basis of Public-Private-Partnership model in order to remain compatible with the need of the time and to ensure dissemination of quality learning contents and support services to learners. Initiatives have also been taken for the development of video lectures.

### 10.3. New DODL Building

Construction work of a separate building of the DODL with state of the art technology with studio and modern library having both print and electronic information resources is in progress. Development of Smart Class Rooms and also the Virtual Class Rooms for offering the interactive academic courses

## 11) Recognition, Honour, etc.

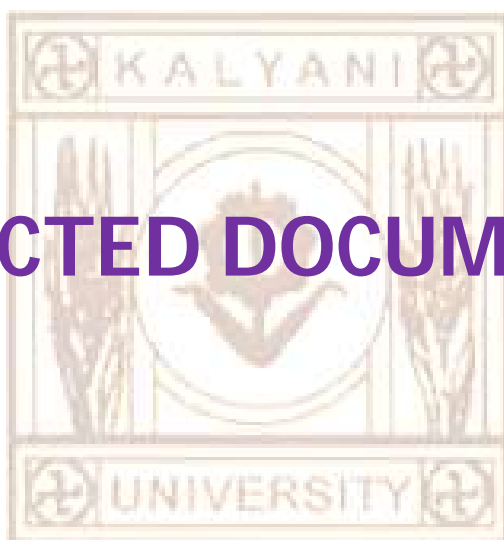
Prof. Juran Krishna Sarkhel, Director of the DODL has been nominated as an external expert member in the

- Doctoral Committee of the Faculty of Library and Information Science, IGNOU, New Delhi.

- Committee relating to the preparation of the syllabus for the Ph.D. Course work in LIS of IGNOU, New Delhi.
- Committee relating to the formulation of Development Plan of IGNOU Library System, New Delhi.
- Library Committee of the Netaji Subhas Open University, Kolkata.



# SELECTED DOCUMENTS



2 - BPEd

TO BE PUBLISHED IN GAZETTE OF INDIA PART – III, SECTION 4

National Council for Teacher Education

Eastern Regional Committee

(A Statutory Body of the Govt. of India)

15, Neelakantha Nagar, Nayapalli, Bhubaneswar – 751012

Phone-(0674) 2562793, 2563252, 2563156, Fax: (0674) 2564873

F. ERC/NCTE/APE00282/B.P.Ed./ (Revised Order)/2015/32477 Date: 30/05/2015

ORDER

WHEREAS, in exercise of the powers conferred by sub-section (2) of Section 32 of the National Council for Teacher Education Act, 1993 (73 of 1993), and in supersession of the National Council for Teacher Education [Recognition Norms and Procedure] Regulations, 2009, the National Council for teacher Education has notified the Regulations, 2014 on 01.12.2014.

2. AND WHEREAS the institution viz. **Department of Physical Education, University of Kalyani, Kalyani, Nadia, West Bengal-741235** was granted recognition for conduct of **B.P.Ed.** course of **one** year duration with an annual intake of **50** from the academic session **2005-2006** vide ERC order no. **ERC/ 7-57.5.8/ 2005/ 2118 dt.01.07.2005**.

3. AND WHEREAS, the institution viz. Department of Physical Education, University of Kalyani, Kalyani, Nadia, West Bengal-741235 has by affidavit dated **21.01.2015** consented to come under New Regulations 2014 and sought for **One Basic Unit** in **B.P.Ed. course** which require additional facilities.

4. AND WHEREAS, it has been decided to permit the institution to have **One Basic Unit** of 50 students each subject to fulfilling following conditions namely,

- (i) The institution shall create additional facilities that include (a) additional built-up area, (b) additional infrastructure, (c) additional fund, (d) adhere to staff norms as per Regulations, 2014 and inform Regional Committee with required documents by October 31, 2015.
- (ii) The applicant-institution for additional unit will be required to submit the required documents such as land documents, Encumbrance Certificate (EC), Land Use Certificate (LUC) and the Building Plan (BP) in the specified proforma available on the website to the Regional Committee in proof of having provided additional facilities before October 31, 2015. Building Completion Certificate (BCC) may be given along with other documents if available, otherwise it can also be given to the Visiting Team at the time of inspection.



Contd...2



**TO BE PUBLISHED IN GAZETTE OF INDIA PART – III, SECTION 4**

**National Council for Teacher Education**  
**Eastern Regional Committee**  
**(A Statutory Body of the Govt. of India)**  
**15, Neelakantha Nagar, Nayapalli, Bhubaneswar-751012**  
**Phone-(0674) 2562793, 2563252, 2563156, Fax: (0674) 2564873**

ERC/7-130.5(I).8/2011/ 10623  
 Application Code No.ERCAPP467

12 March, 2012

**ORDER**

WHEREAS, Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235 (File No.WB-S/N-3/99) was granted recognition vide ERC Order No.7-14/2000-ERC/1491 Dt.06.07.2000 for B.Ed. Course of one year duration with annual intake of 80 students.

2. AND WHEREAS in terms of Section 15(1) of the NCTE Act, 1993 Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235 has submitted an application (CodeNo. ERCAPP115) to the Eastern Regional Committee of NCTE for permission of additional intake in its existing B.Ed. Course from 80 intake to 100 intake on 29.09.2010.

3. AND WHEREAS the competent authority had constituted a Visiting Team to visit the institution and the visiting team which visited the institute on 09.01.2011.

4. AND WHEREAS on scrutiny/perusal of the application submitted by the institution, the documents attached therewith, the affidavit and the input received from the visiting team in the form of report and videography, recommendation of the State Government, the Committee is satisfied that the institution/society fulfills the requirements under the provisions of NCTE Act, Rules and relevant Regulations including the Norms and Standards for the Secondary Teacher Education (B.Ed.) programme such as instructional facilities, infrastructural facilities, library, accommodation, financial resources, laboratory etc. for running the programme and has selected/appointed duly qualified teaching staff as per NCTE norms.

5. NOW, THEREFORE, in exercise of the powers vested under Section 15(3)(a) of the NCTE Act, 1993, the Eastern Regional Committee hereby grants permission for additional intake to Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235 for continue the existing B.Ed. Course of Secondary (level) of one year duration with an additional annual intake of 20 (twenty), therefore the total annual intake 20+80=100 (one hundred) from the academic session 2012-13. Under Clause 7(11) of NCTE (Recognition Norms & Procedure) Regulations, 2009 subject to fulfillment of the following conditions:

P.T.O.



**TO BE PUBLISHED IN GAZETTE OF INDIA PART – III, SECTION 4**

**National Council for Teacher Education**  
**Eastern Regional Committee**  
**(A Statutory Body of the Govt. of India)**  
**15, Neelakantha Nagar, Nayapalli, Bhubaneswar-751012**  
**Phone-(0674) 2562793, 2563252, 2563156, Fax: (0674) 2564873**

ERC/7-130.5(I).8/2011/ 10623  
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12 March, 2012

**ORDER**

WHEREAS, Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235 (File No.WB-S/N-3/99) was granted recognition vide **ERC Order No.7-14/2000-ERC/1491 Dt.06.07.2000** for **B.Ed. Course** of one year duration with annual intake of **80 students**.

2. AND WHEREAS in terms of Section 15(1) of the NCTE Act, 1993 Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235 has submitted an application (CodeNo. ERCAPP115) to the Eastern Regional Committee of NCTE for permission of additional intake in its existing **B.Ed. Course** from **80 Intake to 100 Intake** on 29.09.2010.

3. AND WHEREAS the competent authority had constituted a Visiting Team to visit the institution and the visiting team which visited the institute on 09.01.2011.

4. AND WHEREAS on scrutiny/perusal of the application submitted by the institution, the documents attached therewith, the affidavit and the input received from the visiting team in the form of report and videography, recommendation of the State Government, the Committee is satisfied that the institution/society fulfills the requirements under the provisions of NCTE Act, Rules and relevant Regulations including the Norms and Standards for the Secondary Teacher Education (B.Ed.) programme such as instructional facilities, infrastructural facilities, library, accommodation, financial resources, laboratory etc. for running the programme and has selected/appointed duly qualified teaching staff as per NCTE norms.

5. NOW, THEREFORE, in exercise of the powers vested under Section 15(3)(a) of the NCTE Act, 1993, the Eastern Regional Committee hereby grants permission for additional intake to **Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235** for continue the existing **B.Ed. Course of Secondary (level) of one year** duration with an additional annual intake of **20 (twenty)**, therefore the total annual intake **20+80=100 (one hundred)** from the academic session **2012-13**. Under Clause 7(11) of NCTE (Recognition Norms & Procedure) Regulations, 2009 subject to fulfillment of the following conditions:

**P.T.O.**

23236351, 23237701, 23237721, 23234116



SPEED POST

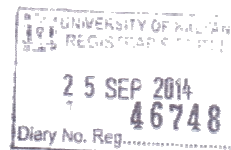
विश्वविद्यालय अनुदान आयोग  
बहादुरशाह जफर मार्ग  
नई दिल्ली-110 002  
UNIVERSITY GRANTS COMMISSION  
BAHADURSHAH ZAFAR MARG  
NEW DELHI-110 002

F.No.5-5/2014(CPP-I/PU)

September, 2014

19 SEP 2014

The Registrar,  
Kalyani University, Kalyani-741 235  
West Bengal.



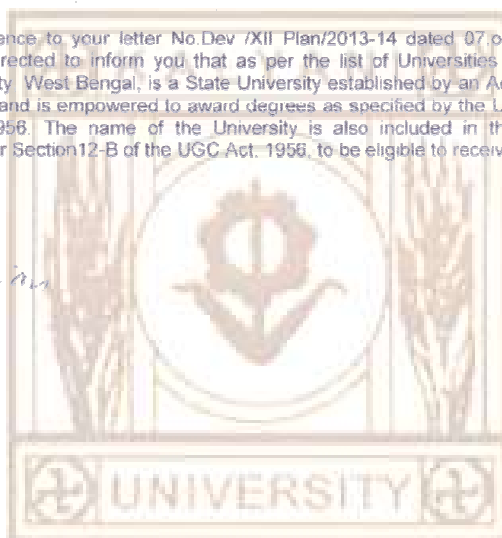
Sub:-Status of Kalyani University, Kalyani.

Sir,

With reference to your letter No.Dev /XII Plan/2013-14 dated 07.01.2014 on the above subject. I am directed to inform you that as per the list of Universities maintained by UGC, Kalyani University West Bengal, is a State University established by an Act of State Legislature of West Bengal and is empowered to award degrees as specified by the UGC under Section 22 of UGC Act, 1956. The name of the University is also included in the list of Universities (S.No.300) under Section 12-B of the UGC Act, 1956, to be eligible to receive central assistance.

Yours Faithfully

*Charan Dass*  
(Charan Dass)  
Under secretary



UNIVERSITY OF KALYANI  
Office of the Inspector of Colleges  
25 JUN 2015  
Date No. 10/691

K. U.  
EDUCATION

KU/EDU/2015/RE-636  
dt. 30/06/15

TO BE PUBLISHED IN GAZETTE OF INDIA PART - III, SECTION 4

National Council for Teacher Education  
Eastern Regional Committee  
(A Statutory Body of the Govt. of India)  
15, Neelakantha Nagar, Nayapalli, Bhubaneswar - 751018  
Phone-(0674) 2562793, 2563252, 2563156, Fax: (0674) 2564873

UNIVERSITY OF KALYANI  
REGISTRAR'S DEPT.  
22 JUN 2015  
Diary No. Reg. 52385

F. ERC/NCTE/APE00236/M.Ed./(Revised Order)/2015/ 22550 Date: 30/05/2015

### ORDER

WHEREAS, in exercise of the powers conferred by sub-section (2) of Section 32 of the National Council for Teacher Education Act, 1993 (73 of 1993), and in supersession of the National Council for Teacher Education [Recognition Norms and Procedure] Regulations, 2009, the National Council for teacher Education has notified the Regulations, 2014 on 01.12.2014.

2. AND WHEREAS the institution viz. University of Kalyani, P.O. Kalyani, Dist. Nadia, West Bengal-741235, was granted permission for conduct of M.Ed. course of one year duration with an annual intake of 25 from the academic session 2005-2006 vide ERC order no. ERC/ 7-51(ER-51.7.9)/ 2004/ 3582 dt.05.12.2004.

3. AND WHEREAS, the institution viz. University of Kalyani, P.O. Kalyani, Dist. Nadia, West Bengal-741235, has by affidavit dated 29.01.2015 consented to come under New Regulations 2014 and sought for One Basic Unit in M.Ed. course which require additional facilities.

4. AND WHEREAS, it has been decided to permit the institution to have One Basic Unit of 50 students subject to fulfilling following conditions namely,

- (i) The institution shall create additional facilities that include (a) additional built-up area, (b) additional infrastructure, (c) additional fund, (d) adhere to staff norms as per Regulations, 2014 and inform Regional Committee with required documents by October 31, 2015.
- (ii) The applicant-institution for additional unit will be required to submit the required documents such as land documents, Encumbrance Certificate (EC), Land Use Certificate (LUC) and the Building Plan (BP) in the specified proforma available on the website to the Regional Committee in proof of having provided additional facilities before October 31, 2015. Building Completion Certificate (BCC) may be given along with other documents if available, otherwise it can also be given to the Visiting Team at the time of inspection.

(iii) The Regional Committee shall arrange for verification of documents, inspection of these premises and check adherence to these conditions by 20 Feb, 2016. If it is found by the Regional Committee

I.C./HOD Edm.  
29/6/15  
REGISTRAR  
University of Kalyani  
Kalyani, Nadia-741235  
West Bengal

Registrar

This is important as it is re-cognition of M.Ed. course of the Univ. itself. The original should be kept in safe custody and copies be sent to HOD, Edm./C.E./V.C./Secy./AC(PG)/RO, and other relevant offices.

30/6/15  
Inspector of Colleges  
University of Kalyani

Contd...2





1/2/1

that the institution fails to comply with these requirements, the institutions shall not be permitted to admit students for the academic year 2016-2017.

5. **Now therefore**, in the light of the above and in terms of Section 15(3) (a) of NCTE Act and in accordance with the Regulations, 2014, the Eastern Regional Committee, NCTE hereby grants permission to **University of Kalyani, P.O. Kalyani, Dist. Nadia, West Bengal-741235**, for conducting **M.Ed. Programme of two years duration with an intake of 50 students from the academic session 2015-2016** subject to fulfilment of the conditions mentioned herein before 31.10.2015.

6. Further, the recognition is subject to fulfilment of other requirements as may be prescribed by other regulatory bodies like UGC, affiliating University/ Body, the State Government etc. as applicable.

7. The institution shall submit to the Regional Committee a Self-Appraisal Report at the end of each academic year along with the statement of annual accounts duly audited by a Chartered Accountant.

8. The institutions shall maintain & update its web-site as per provisions of NCTE Regulations and always display following as mandatory disclosure:-

- a) Sanctioned programmes along with annual intake in the institution;
- b) Name of faculty and staff in full as mentioned in school certificate along with their qualifications, scale of pay and photograph.
- c) Name of faculty members who left or joined during the last, quarter;
- d) Names of Students admitted during the current session along with qualification, Percentage of marks in the qualifying examination and in the entrance test, if any, date of admission, etc.;
- e) Fee charged from students;
- f) Available infrastructural facilities;
- g) Facilities added during the last quarter;
- h) Number of books in the library, journals subscribed to and additions, if any, in the last quarter;
- i) The affidavit with enclosure submitted along with application.
- j) The institution shall be free to post additional relevant information, if it so desires.
- k) Any false or incomplete information on website shall render the institution liable for withdrawal of recognition.

Contd...3

**MEMORANDUM OF APPEAL****APPEAL BEFORE THE NATIONAL COUNCIL FOR TEACHER EDUCATION  
UNDER SECTION 18 OF NCTE ACT, 1993**

Appeal No. .... of 20 .....

ABC.....Appellant  
here furnish complete postal address).....  
.....

Versus

DEF.....Respondent

To

The Member Secretary,  
National Council for Teacher Education,  
New Delhi.

Sir,

The appellant named above begs to prefer this Memorandum of Appeal under Section 18 of the National Council for Teacher Education Act, 1993 on the following facts and grounds :—

**FACTS**

1 Your above-mentioned appellant had applied to the Regional Committee under Section ..... of the National Council for Teacher Education Act, 1993 (73 of 1993) for .....

2. The Regional Committee ..... refused to grant such ..... vide its order dated ..... a copy of which is attached ..... For the reasons set out below, your appellant(s) submit(s) that the ..... ought to have been granted by the Regional Committee. The Regional Committee erred in deciding the matter on the following grounds.

**GROUND OFS OF APPEAL**

- 1.
- 2.
- 3.

**PRAYER**

The appellant therefore prays that the order appealed against may be set aside and appropriate relief granted to the appellant.

//2//

2. The Secretary to Government of West Bengal, Department of Higher Education, 6<sup>th</sup> Floor, Bikash Bhawan, Salt Lake, Kolkata, West Bengal- 700091.
3. The Registrar, Kalyani University, Kalyani, Nadia, West Bengal - 741235
4. The Director of Public Instruction, Govt. of West Bengal, 6<sup>th</sup> Floor, Bikash Bhawan, Salt Lake, Kolkata, West Bengal- 700 091
5. The Secretary, Dept. of School Education and Literacy, Ministry of Human Resource Development, Govt. of India, Shastri Bhawan, New Delhi - 110001.
6. The US (Computer), National Council for Teacher Education, Hans Bhawan Wing -II, Bahadur Shah Zafar Marg, New Delhi-110 002.
7. Office Order file / Institution file.

  
**Regional Director**

//2//

- (i) The institution shall comply with the various other norms and standards prescribed in the NCTE regulations, as amended from time to time.
- (ii) The institution shall make admission only after it obtains affiliation from the examining body in terms of clause 8(12) of the NCTE (Recognition Norms & Procedure) Regulations, 2009.
- (iii) The institution shall ensure that the required number of academic staff for conducting the course is always in position.

6. Further, the recognition/permission is subject to fulfillment of all such other requirements as may be prescribed by other regulatory bodies like UGC, affiliating University/ Body, the State Government etc, as applicable.

7. The institution shall submit to the Regional Committee a Self-Appraisal Report at the end of each academic year along the statement of annual accounts duly audited by a Chartered Accountant.

8. The institution shall maintain & update its Web-site as per provisions of NCTE Regulations and always display following as mandatory disclosure:-

- (i) Copy of the Application Form
- (ii) Land and Building Particulars
- (iii) Staff Profile
- (iv) Recognition letter
- (v) Information for having fulfilled the norms & standard and other required conditions.

9. If the institution contravenes any of the above conditions or the provisions of the NCTE Act, Rules, Regulations and Orders made or issued there under, the Regional Committee shall withdraw the recognition as under the provisions of Section 17(1) of the NCTE Act.

10. Further, if the institution is not satisfied by the order, they can prefer an appeal to National Council for Teacher Education, Hans Bhawan, Wing-II, 1, Bahadur Shah Zafar Marg, Near ITO, New Delhi-110002 against this order under Section 18 of the NCTE Act, 1993 within 60 days of the issue of this order. The guidelines of appeal are enclosed herewith.

  
Regional Director

**Encl: As above**

The Manager to Govt. of India  
Department of Publications, (Gazette Section)  
Civil Lines, Delhi – 110 054  
**C.C.**

1. The Principal / Head / Correspondent Department of Education, University of Kalyani, Plot No. – B-13, Vill/PO. : Kalyani, Tehsil/Town – Kalyani, Dist. – Nadia, West Bengal – 741235

P.T.O

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If the institution Contravenes any of the above conditions of the provision of the NCTE Act, Rules, Regulations and Orders made and issued there under, the institution will render itself liable to adverse action including withdrawal of recognition by the Regional Committee under the provisions of Section 17 (1) of the NCTE Act.

By Order,

Regional Director

The Manager  
Government of India Press  
Department of Publications (Gazette Section)  
Civil Lines, New Delhi – 110054

To

**The Principal,**  
University of Kalyani,  
P.O. - Kalyani,  
Dist. Nadia,  
West Bengal-741235.

Copy to:

1. The Secretary to the Govt. of West Bengal, Department of Higher Education, 6th floor, Bikash Bhawan Salt Lake, Kolkata, West Bengal - 700091.
2. The Registrar, University of Kalyani, Kalyani, West Bengal - 741235.
3. The Director of Public Instruction, Govt. of West Bengal, 6th floor, Bikash Bhawan, Salt Lake, Kolkata, West Bengal - 700091
4. The Secretary, Dept. of School Education and Literacy, Ministry of Human Resource Development, Govt. of India, Shastri Bhawan, New Delhi – 110001.
5. The Under Secretary (CS) National Council for Teacher Education, Hans Bhawan, Wing-II, 1, Bahadurshah Zafar, New Delhi – 110002.
6. Office Order file/ Institution file.

  
Regional Director



**Programmes taught on campus****Degree, Diploma and Certificate Programs offered on Campus:**

UG (Professional): 05

UG(32)

PG : 35

Integrated PG:02

Ph D :30+7(M. Phil.)=37

PG Diploma, Diploma and Certificate course: 65

**Details of UG (Professional) Programmes offered (05):**

B. Ed, B.PEd, BLISc, B. Tech. (Information Technology, Electronics & Instrumentation Engineering)

**Details of UG Programmes offered (32):**

Arabic (H&G), Botany (H&G), Chemistry (H&G), Commerce (H&G), Commerce (H&G), Education (H&G), Environmental Science (H), Environmental Studies (compulsory), Geography (H&G), Hindi (H&G), History (H&G), Law (BA, LLB), Mathematics (H&G), Microbiology (H), Molecular biology & Biotechnology (H&G), Philosophy (H&G), Physical Education (B.P.Ed., G), Physiology(H&G), Physics (H&G), Political Science (H&G), Sanskrit (H&G), Sociology (H&G), Statistics (H&G), Urdu (H&G), Zoology (H&G), Media Studies (H&G), Computer Application (Major), Communicative English (Major), Sericulture (Major), Communicative English (Major), Sericulture (Major), Tourism & Travel Management (Major).

**Details of PG Courses offered (35):**

Arts & Commerce Faculty(15): (Bengali, Commerce, Economics, English, Folklore, Hindi, History, Library & Information Sciences, Philosophy, Political Science, Sanskrit, Sociology, M. Com, M. Lisc., Rural Development & Management,

Science Faculty:(13) Biochemistry & Biophysics, Botany, Chemistry, Environmental Science, Geography, Mathematics, Microbiology, Molecular Biology & Biotechnology, Physics, Physiology, Statistics, Zoology, Environment and Ecology

FETM (04): M. Tech.(Computer Science & Engineering, Communication Engineering, Environmental Management), MCA,MBA (Technology Management)

Education Faculty (02): M. Ed, M. P. Ed.

Music & Fine Arts(01): Visual Arts

**Integrated Master Degree (02)**

Statistics, M Lisc

**Details of Research Degrees offered:**

**M. Phil. (7):** (Bengali, Economics, Women Studies, Commerce, Education, Flocklore, History)

**Ph.D. (30) (FETM(5):** Business Administration, Computer Science & Engineering, Engineering & Technological Studies: **FA(11):** Bengali, Commerce, Economics, English, Folklore, Hindi, History, Library & Information Sciences, Philosophy, Political Science, Sanskrit, Sociology: **FS(12):** Biochemistry & Biophysics, Botany, Chemistry, Environmental Science, **Programmes taught on campus**

**Degree, Diploma and Certificate Programs offered on Campus:**

UG (Professional): 05

UG(32)

PG : 35

Integrated PG:02

Ph D :30+7(M. Phil.)=37

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### **Details of PG Courses offered (35):**

Arts & Commerce Faculty(15): (Bengali, Commerce, Economics, English, Folklore, Hindi, History, Library & Information Sciences, Philosophy, Political Science, Sanskrit, Sociology, M. Com, M. Lisc., Rural Development & Management,

Science Faculty:(13) (Biochemistry & Biophysics, Botany, Chemistry, Environmental Science, Geography, Mathematics, Microbiology, Molecular Biology & Biotechnology, Physics, Physiology, Statistics, Zoology, Environment and Ecology

FETM (04): M. Tech.(Computer Science & Engineering, Communication Engineering, Environmental Management), MCA,MBA (Technology Management)

Education Faculty (02): M. Ed, M. P. Ed.

Music & Fine Arts(01): Visual Arts

### **Integrated Master Degree (02)**

Statistics, M Lisc

### **Details of Research Degrees offered:**

**M. Phil. (7):** (Bengali, Economics, Women Studies, Commerce, Education, Flocklore, History)

**Ph.D. (30) (FETM(5):** Business Administration, Computer Science & Engineering, Engineering & Technological Studies, Environmental Management, Rural Development & Management: **FA(11):** Bengali, Commerce, Economics, English, Folklore, Hindi, History, Library & Information Sciences, Philosophy, Political Science, Sanskrit, Sociology: **FS(12):** Biochemistry & Biophysics, Botany, Chemistry, Environmental Science, Geography, Mathematics, Microbiology, Molecular Biology & Biotechnology, Physics, Physiology, Statistics, Zoology: **FE(02):** Education, Physical Education)

### **Details of PG Diploma, Diploma & Certificate Courses offered (65)**

#### **P.G. Diploma (3), Diploma (18), Certificate (44)**

Adult Education, Russian Language, Training on Networking, Applied soft-ware training, Training on PC Maintenance, Fishery Management cum Fish Breeding, Ornamental Fish Culture, Primary Health Care & Social Service, Vermicompost Production, Mushroom Cultivation, Agril Horticulture, Environment Quality Assessment & Monitoring, Mushroom Spawn Production & Cultivation, Computer Typing & Internet Operation, MS-Office & Internet, Desk Top Publishing, Computer Fundamental with Internet & Foxpro, Fundamentals of Programming with C<sup>++</sup> Language & Visual Basic, Computer Fundamentals, Programming in C & Visual Foxpro, Motor & Small Rating Transformer Winding &

Servicing, Computer Hardware & Networking, Basic Electronics, Fitting, Machining, Welding, Sheetmetal Forging & Foundry Practices, Wood Work and Modern Designing, Two-Wheeler Repairing & Maintenance, Four-Wheeler Repairing & Maintenance, Refrigerator & Air-conditioner Repair & Maintenance, MIG Welding, Core & Advanced Java Programming, Database Management System & Oracle, Plumbing, Electrical Wiring, Managership of Civil Constructions, Wet Cell Battery & Inverter Making & Maintenance, Communicative English, Gardening, Food Processing, Azolla cultivation, Motor Repairing, Animation Film Making(D), Ceramic Design(D), Multimedia Animation (D), Fine Arts(Painting) (D) Defense Studies(D),Film Studies(G),Seed & Nursery Management(D) Soil & Plant Health Management(D), Plant Protection (D), Finance & Agri-Business Management(D), Medical Laboratory Technique (D), Optometrical Sciences(D), Medical Radiology(D), Physiotherapy Technique(D), Encephalography Technique(D), Contact Lens Practice(D), Dental Technique (C ), Optical Technique (C ), Basic Nursing Practice(C), Community Health Service ( C ), Sanitary Inspection ( C ),ECG & PET ( C ),Optometric Assistant.

\* Overseas programmes offered on campus

Nil

**PG. Programmes available for colleges (07):**Hindi(Krishnanagar College), Bengali (Krishnanagar College, Ranaghat College, Nabadwip College, Baharampur Girls College, Sripathsingh College, Krishnanagar College), Geography (Krishnanagar College), Philosophy (Krishnanagar College), Sanskrit ( Krishnanagar College), Zoology (Krishnanagar College).

Geography, Mathematics, Microbiology, Molecular Biology & Biotechnology, Physics, Physiology, Statistics, Zoology: **FE(02):** Education, Physical Education)

#### **Details of PG Diploma, Diploma & Certificate Courses offered (65)**

##### **P.G. Diploma (3), Diploma (18), Certificate (44)**

Adult Education, Russian Language, Training on Networking, Applied soft-ware training, Training on PC Maintenance, Fishery Management cum Fish Breeding, Ornamental Fish Culture, Primary Health Care & Social Service, Vermicompost Production, Mushroom Cultivation, Agril Horticulture, Environment Quality Assessment & Monitoring, Mushroom Spawn Production & Cultivation, Computer Typing & Internet Operation, MS-Office & Internet, Desk Top Publishing, Computer Fundamental with Internet & Foxpro, Fundamentals of Programming with C++ Language & Visual Basic, Computer Fundamentals, Programming in C & Visual Foxpro, Motor & Small Rating Transformer Winding & Servicing, Computer Hardware & Networking, Basic Electronics, Fitting, Machining, Welding, Sheetmetal Forging & Foundry Practices, Wood Work and Modern Designing, Two-Wheeler Repairing & Maintenance, Four-Wheeler Repairing & Maintenance, Refrigerator & Air-conditioner Repair & Maintenance, MIG Welding, Core & Advanced Java Programming, Database Management System & Oracle, Plumbing, Electrical Wiring, Managership of Civil Constructions, Wet Cell Battery & Inverter Making & Maintenance, Communicative English, Gardening, Food Processing, Azolla cultivation, Motor Repairing, Animation Film Making(D), Ceramic Design(D), Multimedia Animation (D), Fine Arts(Painting) (D) Defense Studies(D),Film Studies(G),Seed & Nursery Management(D) Soil & Plant Health Management(D), Plant Protection (D), Finance & Agri-Business Management(D), Medical Laboratory Technique (D), Optometrical Sciences(D), Medical Radiology(D), Physiotherapy Technique(D), Encephalography Technique(D), Contact Lens Practice(D), Dental Technique (C ), Optical Technique (C ), Basic Nursing Practice(C), Community Health Service ( C ), Sanitary Inspection ( C ),ECG & PET ( C ),Optometric Assistant.

\* Overseas programmes offered on campus

Nil

**PG. Programmes available for colleges (07):**Hindi(Krishnanagar College), Bengali (Krishnanagar College, Ranaghat College, Nabadwip College, Baharampur Girls College, Sripathsingh College, Krishnanagar College), Geography (Krishnanagar College), Philosophy (Krishnanagar College), Sanskrit ( Krishnanagar College), Zoology (Krishnanagar College).

*Series on*

**Great Institutions of  
Higher Learning**  
*Accredited Universities in India*  
(Volume I, 2002-2004)

## Great Institutions of Higher Learning Accredited Universities in India

Sl No.	Name of the Institution	Grade
<b>West Bengal</b>		
1.	Jadavpur University, Kolkata	Five Star
2.	Rabindra Bharati University, Kolkata	Four star
3.	The University of Burdwan, Burdwan	Four star
4.	University of Calcutta, Kolkata	Five star
5.	University of Kalyani, Kalyani	Three star
6.	University of North Bengal, Darjeeling	Three star
7.	Vidyasagar University, Midnapore	Three star



# राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

An Autonomous Institution of the University Grants Commission

प्रो. एच. ए. रंगनाथ

निदेशक

**Prof. H.A. Ranganath**

FASc, FNASc, FEAL, FNA.,

Director

NAAC/A&RA/EC-46/4/2008/

September 16, 2008

The Vice-Chancellor  
University of Kalyani  
Kalyani - 741235  
West Bengal

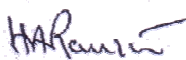
Dear Colleague,

Greetings of Quality from NAAC.

I am glad to inform you that the outcome of the Re-accreditation exercise of your institution has been processed and approved by the Executive Committee of NAAC and your institution has been **Accredited** for a further period of five years with a CGPA of 2.67 on a four point scale at B Grade valid from 16/09/2008. The provisional certificate of accreditation will be sent to you shortly. However, the original certificate of accreditation with the quality profile will be issued during the "Accreditation Awards Programme", which NAAC proposes to organize in the near future to formally handover the certificates to the heads of accredited institutions. I am sure the detailed peer team report given to you already by the peer team will enable the institution to initiate further quality enhancement measures.

With best wishes,

Yours sincerely,

  
(H. A. Ranganath)



पिए ओए बा स नं. 1075, नागरभावी, बैंगलूर - 560 072, भारत P.O.Box No. 1075, Nagarbhavi, Bangalore - 560 072, INDIA

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ई-मेल : e-mail: director@naacindia.org / director.naac@gmail.com वेबसाइट Website : www.naacindia.org



2

**PEER TEAM REPORT OF INSTITUTIONAL RE-ACCREDITATION OF  
UNIVERSITY OF KALYANI, KALYANI, NADIA, WEST BENGAL**

<b>Section .1. GENERAL INFORMATION</b>							
1.1. Name & Address of the Institution	University of Kalyani, West Bengal						
1.2. Year of Establishment:	01-11-1960						
1.3 Current Academic Activities at the Institution (Numbers):							
➤ Faculties/Schools:	4						
➤ Dept. / Centres:	Departments – 27, Centres – 14 ( Teaching centres and research centres)						
➤ Programmes / Courses offered	<table border="1"> <tr> <td>PG</td> <td>32</td> <td>UG</td> <td>3</td> <td>Research</td> <td>28</td> </tr> </table>	PG	32	UG	3	Research	28
PG	32	UG	3	Research	28		
	<table border="1"> <tr> <td>Others</td> <td>           Certificate Course -14            Diploma -01            PG Diploma -02            M.Phil -06            Distance Education Programmes = 9 (including M.Phil).         </td> </tr> </table>	Others	Certificate Course -14 Diploma -01 PG Diploma -02 M.Phil -06 Distance Education Programmes = 9 (including M.Phil).				
Others	Certificate Course -14 Diploma -01 PG Diploma -02 M.Phil -06 Distance Education Programmes = 9 (including M.Phil).						
➤ Permanent Faculty Members:	193						
➤ Permanent Support Staff:	393						
➤ Students	30956 (Includes students from departments affiliate colleges, teaching centres, research centres and self financing colleges)						
1.4. Three major features in the institutional Context (As perceived by the Peer Team):	<ul style="list-style-type: none"> <li>The University of Kalyani was established in 1960 as a unitary university with faculties of arts, science education and agriculture and got bifurcated during 1975 when its faculty of Agriculture evolved into full-fledged Agricultural University.</li> <li>After 1975, the University has affiliated 58 colleges across the 2 flood-prone districts of the state with institutions offering Paramedical, Engineering and Management courses. The University has recently established the Directorate of Open and Distance Learning that offers six postgraduate programmes.</li> <li>The University has a campus of 346.47 acres, located in the urban area at the outskirts of Kalyani town educating about 73 % of rural students and 44% women students.</li> </ul>						

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1.5. Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	3,4,5 & 6 June 2008
1.6. Composition of the Peer Team which undertook the on-site visit:	
Chairperson:	Prof. B Hanumaiah Vice-Chancellor Babasaheb Bhimrao Ambedkar University Lucknow, Uttar Pradesh
Members :	Prof. Pankajam.G (Former VC, Gandhigram Rural Institute- Deemed University), Gandhigram, Tamil Nadu  Dr. A Balasubramaniam Director, Culture and Cultural Relations Pondicherry University, Pondicherry  Dr.Jacob John Kattakayam Dean, Faculty of Social Sciences & Director , Academic Staff College , University of Kerala, Thiruvananthapuram  Prof. Meenakshi Kilam Director, Centre for Quality Assurance University of Jammu, Jammu & Kashmir  Dr. Harish C.S Rathore Professor, Dept. of Education, Banaras Hindu University, Uttar Pradesh  Dr. Jagannath Patil Depty Adviser, NAAC, Bangalore
NAAC Coordinating Officer:	

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Section II: CRITERION WISE  
ANALYSIS

2.1. Curricular Aspects:

2.1.1. Curriculum Design & Development:

- The mission of the University is to contribute to society through the pursuit of education, learning, and research ensuring quality, excellence and access and catering to the needs of higher education of the two educationally backward districts of West Bengal.
- The University has, at present, 27 departments offering 72 teaching and research programmes under the four faculties of which 69 are post graduate teaching and research programmes and three are offered at bachelors degree level.
- The university has got approval to add the faculty of Law, Music and Fine arts.
- Steps are being taken to implement the semester system from the academic session 2008-2009 in all courses.
- The University has used the UGC's model curriculum for the general courses in Science and Arts and the AICTE guidelines for technology and management.
- The University is yet to facilitate the Affiliated Colleges to conduct more career oriented courses, and add-on courses, at their level.
- Only three PG diploma courses are offered at present. There is an urgent need to start a good number of job-oriented diploma and PG diploma courses in the University.
- Since 2001, the University has started five new departments to offer courses like Microbiology, Geography, Molecular Biology and Biotechnology, Physiology, Rural development and management.
- The Board of studies does not have any representation from industry or probable future employers.
- There are twenty honours and twenty general subjects made available at UG level to choose from for the affiliated colleges under arts, commerce and science streams.
- The University's Directorate of Open and Distance Learning is a good initiative done after the first assessment.

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<p>2. Academic flexibility:</p> <p>2.1.3 Feed Back on curriculum</p> <p>2.1.4 Curriculum update</p> <p>2.1.5 Best practices in Curricular Aspects (If any):</p>	<ul style="list-style-type: none"> <li>• There is no provision for students to move from one discipline to another. In courses like statistics, students studied under ancillary streams may be given the opportunity to study M.Sc Statistics with appropriate make-up courses in first two semesters.</li> <li>• In the curricula of most of the post graduate courses, there are a few core components, which are compulsory and a few electives are given for specialization.</li> <li>• The University needs to frequently obtain feedback from the affiliating colleges, inter-alia on the curricula, especially at the BOS and at the faculty council.</li> <li>• Use of ICT is an integral part of curricular activities in most of the science, management and technology departments.</li> <li>• The syllabi of 38 PG courses have been revised by the university during the last five years.</li> <li>• Designed local need based short term training courses for local youths.</li> <li>• Vocational courses particularly certificate courses designed to meet the regional needs.</li> <li>• Introduction of new courses in emerging areas with focus on regional needs.</li> </ul>
<p>2.2 Teaching learning and Evaluation:</p> <p>2.2.1 Admission process and student profile:</p>	<ul style="list-style-type: none"> <li>• Students are selected for admission to various courses based on their previous academic records, interviews and written tests following State Govt. rules.</li> <li>• Complete transparency of the admission is maintained through published notification in the University website as well as in at least two local news papers.</li> <li>• For General and vocational courses, selection</li> </ul>

B. H. P.

	<p>procedure is done based on merit. For professional courses, the same selection procedure is followed unless otherwise specified under State level entrance tests.</p> <ul style="list-style-type: none"> <li>• Out of 3324 students on roll, 22% belong to SCs, 6% STs, 13% OBCs and 44 % are women students.</li> <li>• There are 182 students studying under the self-finance courses.</li> </ul>
<p>2.2.2. Catering to the diverse needs:</p>	<ul style="list-style-type: none"> <li>• University offers equal opportunity to all genders.</li> <li>• Special strategies are adopted for disadvantaged communities, differently abled students and economically weaker sections of the society.</li> <li>• Through counselling, admission committee assesses the need, knowledge and skills vis-a-vis the requirements of the course and helps the students choose the right course.</li> <li>• Formal methods are yet to be adopted by the faculty to identify and help the advanced and slow learners.</li> </ul>
<p>2.2.3. Teaching learning process:</p>	<ul style="list-style-type: none"> <li>• Several components of teaching learning like theory and laboratory classes, field training, industrial visits, project works, seminar presentations, and group discussions are included in the system of education.</li> <li>• A good number of eminent scholars from India and abroad have visited various departments and delivered lectures and interacted with the faculty on various academic improvements, especially in science departments.</li> <li>• Most of the science and engineering faculties use OHP transparencies and computer aided audio visuals aids for teaching.</li> </ul>
<p>2.2.4. Teacher Quality:</p>	<ul style="list-style-type: none"> <li>• Out of 261 sanctioned faculty positions, 193 posts are filled and a few guest faculties and part-time faculties have been engaged to meet the workload requirements. Retired teachers and Emeritus fellows are also working in the University departments and support teaching.</li> <li>• There are total 193 permanent teachers on the roll, out of which 150 have doctorate degrees and 12 have M.Phil degrees and 41 are women.</li> <li>• From the academic profiles, it is seen that a large number of teachers are well-experienced and have</li> </ul>

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<p>2.2.5. Evaluation Process And Reforms:</p>                      2.2.6. Best Practices in Teaching learning and Evaluation (if any)	<p>acquired professional competence and some have international standing.</p> <ul style="list-style-type: none"> <li>• The Faculty have organized 42 seminars, several workshops and symposia on curricula development, Teaching Learning Assessment programmes as well as invited / endowment lectures.</li> <li>• The University has the system of collecting the self appraisal of teachers. However, systematic corrective measures have to be taken with periodic review based on these evaluations.</li> </ul> <ul style="list-style-type: none"> <li>• For UG &amp; PG courses, theory papers are evaluated by a single examiner.</li> <li>• For practical and dissertation, dual examiner system is followed.</li> <li>• The declaration of UG results need to be speeded up in order to admit the students at PG level.</li> <li>• While introducing the semester system, pattern of question papers and methods of evaluating students performance need to be structured keeping in view of the National level competitive examinations and job prospects.</li> <li>• Continuous evaluation system is yet to be introduced.</li> </ul> <ul style="list-style-type: none"> <li>• During last five years, about 250 students have qualified the UGC NET /SLET .</li> <li>• The University has been conducting refresher courses for teaching faculty.</li> </ul>
<p>2.3 Research, Consultancy &amp; Extension</p>                      2.3.1. Promotion of Research:	<ul style="list-style-type: none"> <li>• Almost all departments, in the University, have research programmes leading to Ph.D degree. There are also M.Phil programmes offered by six departments.</li> <li>• Research committees are constituted to monitor the Ph.D research activities. Every year, on an average, 100 Ph.D degrees are awarded.</li> <li>• Currently, 216 research scholars are working out of which 24 are UGC-JRF and 21 are CSIR fellows.</li> </ul>

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## 2.3.2 Research and Publication output:

- During the last five years, 72 research projects funded by various national and international agencies were undertaken. Some of them are also completed.
- A lot of research laboratories have come up with good equipment due to the consistent efforts of the faculty and due to the support of UGC, DST, DBT, CSIR, ICMR, ICSSR, IDPAD, AICTE, NABARD and ICAR.
- Many of the university faculties are well known nationally and internationally for their research work and have received several awards and recognition from reputed national and international institution and agencies.
- A few teachers not holding Ph.D degrees are also guiding Ph.D students.

## 2.3.3. Consultancy:

- The faculties of the university have contributed 2749 publications, of which 110 are books, and 1609 are research papers including 123 papers in edited volume and of the remaining 1486 research papers published in peer – reviewed journals, 450 are in international journals.
- The UGC's Special Assistance Programme exists only in Chemistry and Economics. The other departments have to strive to obtain these supports in addition to introduction of innovative programmes.
- DST's FIST support has been obtained for Chemistry, Biochemistry, Biophysics, Physics, Botany, Zoology and Mathematics.
- AICTE has provided funds to USIC and Computer Science departments.
- The previous assessment report of the NAAC recommended launching consultancy in a more organized and purposeful way in water Resource Management and Environmental Problems.
- Accordingly Dept. of Environmental Sciences has rendered consultancy services to various government and public sector enterprises as well as industries particularly with respect to environmental clearance projects and environmental audits.

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<p>2.3.4. Extension Activities:</p> <p>2.3.5. Collaborations:</p> <p>2.3.6. Best practices in Research Consultancy and Extension (If any)</p>	<ul style="list-style-type: none"> <li>• The faculties also obtained consultancy assignments with the UNESCO, UNICEF and Swiss Agency for development.</li> <li>• The University primarily conducts the out reach programmes through the centre for Adult &amp; Continuing education.</li> <li>• The University is yet to make effective coordination between NSS wing and the extension centers for promoting university neighborhood network.</li> <li>• Department of Folklore and the Centre for Ecological Engineering, Department of Environmental Science are actively involved in engaging and reaching out to the community.</li> <li>• There are 50 collaborations made in the last five years for research and extension activities of which 35 are with national and 15 are with international institution / agencies.</li> <li>• These linkages help for improving the quality of education in curriculum development, Internship on the job training, Research, Publication and students placement.</li> <li>• Complete freedom and infrastructure support facilities are given to take up research project and collaboration.</li> <li>• Launched consultancy in more organized way especially in water Resource Management and environmental problem.</li> <li>• The university in association with the Forest department has established an Eco-Park with long-term objectives.</li> </ul>
<p><b>2.4. Infrastructure and Learning Resources:</b></p> <p>2.4.1 Physical facilities for learning:</p>	<ul style="list-style-type: none"> <li>• The University has a spacious campus. It has provided the space for housing its teaching blocks, offices, residential houses, sports infrastructure and recently developed Eco park.</li> <li>• Within the campus, the University has its central library, computer centre, health centre, sports facilities with playground, gymnasium, five boys hostels and three girls hostels, a guest house, faculty house, canteen and quarters for teacher officers and other staff.</li> </ul>

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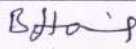
<p>2.4.2. Maintenance of Infrastructure:</p>	<ul style="list-style-type: none"> <li>• Lack of adequate infrastructure is an impediment to the academic growth.</li> <li>• The university has one centrally air conditioned hall and a seminar room for performing co-curricular activities like student festivals, debate and drama competition and other performances.</li> <li>• The laboratories are well equipped with most of the major and essentially required equipment. Some advanced equipments have duplication due to professional needs. Maintenance of Usage log books of major equipments shall be formalized.</li> <li>• The operating Budget of University is inadequate to its requirement; the State government grant is insufficient to overcome this fiscal deficit budget.</li> <li>• Limited physical infrastructure and learning resources are overburdened and require qualitative augmentation and maintenance particularly in humanities, administrative block and hostels.</li> <li>• Proper maintenance of infrastructure would improve the ambience of the campus.</li> </ul>
<p>2.4.3. Library as Learning resource:</p>	<ul style="list-style-type: none"> <li>• The University has a central library. It is partially computerized in database.</li> <li>• The library subscribes 82 national and 2 international journals and has 115109 books in its stock.</li> <li>• There is reprographic facility, video cassette and CDs, along with internet facility with access to infolibnet and Delnet</li> <li>• Nearly one crore rupees was spent for purchase of New books, Journals and other materials during last five years.</li> <li>• There must be full-time librarian and open access system to be followed.</li> </ul>
<p>2.4.4. ICT as Learning Resources:</p>	<ul style="list-style-type: none"> <li>• All the science departments are well equipped with computer facility and University has optical fiber LAN inter connectivity in all the departments.</li> </ul>

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	<p>departments.</p> <ul style="list-style-type: none"> <li>The University has recently established a centre for Information Resource Management at the central library that provide support and guidance in preparing teaching learning material</li> <li>There is no ICT package designed or developed as e-contents by the departments for their disciplines.</li> </ul>
<p>2.4.5. Other facilities:</p>	<ul style="list-style-type: none"> <li>There are 850 students accommodated in 8 hostels for boys and girl students of the University. There are altogether 520 rooms in these hostels. The hostels are provided with usual facilities of common rooms, small library, indoor games, visitor room, security room and dining enclosure.</li> <li>The health centre of University is poorly equipped with health service facilities and offers general medical check-up which is accessible to students, teachers and other staffs.</li> <li>The sports and games facilities are not fully utilized by the regular students of the University. It is, at present, used by the Physical Education students as it is controlled by the respective department.</li> <li>The Students and scholars expressed their needs of providing open access to these facilities.</li> <li>Construction of new buildings for Molecular Biology &amp; Biotechnology, Microbiology, Business Management, Geography, Physiology and the Administration Annex are in progress. Campus-wide Internal Telephone (EPABX) and LAN system for effective communication and for free Internet access are on the anvil.</li> <li>The University is developing a new software Kalyani-MIS for Students' admission, Finance &amp; Accounts.</li> </ul>
<p>4.6. Best practices in the infrastructure and learning resources (If any):</p>	<ul style="list-style-type: none"> <li>Emphasis on the use of ICT for creating information network within the campus through the CIRM.</li> </ul>



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2.5. Student support and progression:	<ul style="list-style-type: none"> <li>On the basis of available data, it is observed that 15 percent of students progress for further studies, remaining 85 percent are getting jobs or do their own business.</li> <li>The average dropout rate after admission is about 5 percent.</li> <li>About 15 percent students appear in the competitive exams such as UGC-CSR-NET, SLET, Central/ State service etc. and about 50 percent of them qualified these examinations.</li> </ul>
2.5.1. Student progression:	
2.5.2. Student support:	<ul style="list-style-type: none"> <li>The University regularly publishes its updated prospectus and hand book, every year.</li> <li>The institution provides financial assistance to students in the form of merit, merit-cum means and free studentship.</li> <li>During the last year, the number of free-ships and scholarship of the government arranged for students are 189 and 105 respectively. Besides these the University has also provided 65 scholarships.</li> <li>Scholarships were sanctioned from government to about 590 students belonging to SC/ST categories. An amount of Rs. 58.9 lakhs has been sanctioned last year, for this purpose.</li> <li>The Centre for adult Education and Extension of University has organized number of Courses and Seminars pertaining to legal and social issues.</li> </ul>
2.5.3 Student Activities:	<ul style="list-style-type: none"> <li>The students participate in all the Staff Day, Annual sports events and Annual cultural function of the University.</li> <li>The University has postgraduate representatives and research scholar representatives in the policy making bodies.</li> <li>Departmental alumni contribution is seen in very few departments.</li> <li>Students are actively involved in many cultural activities.</li> </ul>

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<p>2.5.4 Best practices in Student Support and Progression ( If any).</p>	<ul style="list-style-type: none"> <li>• Providing stipend, scholarships on merit and means, to ensure equity and Access.</li> </ul>
<p>2.6. <i>Governance and leadership</i></p> <p>2.6.1. Institutional Vision and leadership</p> <p>2.6.2. Organisational Arrangements:</p> <p>2.6.3 Strategy development and deployment:</p>	<ul style="list-style-type: none"> <li>• The mission statement and goals of the institution reflect quality in teaching, research and extension activities.</li> <li>• The University has set up its IQAC for translating quality to various administrative and academic departments.</li> <li>• There are elected representative from all section of stakeholders as well as the government nominees on university bodies. Meeting of these bodies are regularly held.</li> <li>• The functional structure is democratic and there are scope for participatory democracy involving the stakeholder in decision making process.</li> <li>• The administrative structure is decentralized with well defined authority and responsibility. The management council of the University has implemented 95 percent of its decisions during the last year.</li> <li>• The academic and administrative department submit their developmental plans every year, following the vision for future development and prospective plan of the University.</li> <li>• The University has been making untiring efforts for further development of its infrastructure.</li> <li>• Several developmental plan proposals were initiated and submitted to various funding agencies and many of them being implemented.</li> <li>• The University is also providing effective guidance to its affiliated colleges through the college developmental council.</li> </ul>

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<p>2.6.4 Human Resource Management:</p>	<ul style="list-style-type: none"> <li>• The University has given due importance to the human resource management aspect and has been able to reduce the teacher- staff ratio to 1:2, which is a remarkable feature.</li> <li>• Every year, the faculty submits self appraisal to the respective Deans of the faculties, who scrutinizes the self appraisals by the teachers and reports to the Vice-Chancellor.</li> <li>• As the general policy, the University encourages the teaching staff to use computers, internet, audio visual aids and computer aided packages.</li> </ul>
<p>2.6.5. Financial Management and Resource mobilization:</p>	<ul style="list-style-type: none"> <li>• The resources are inadequate for successful implementation of plan for expansion of its infrastructure and learning resources as well as administrative activities and programmes.</li> <li>• The University has mechanism for internal and external audit, which is being done regularly by the Account General.</li> <li>• Following the recommendation of the previous NAAC assessment, the University has reduced the salary component in total expenditure from 65% in 2001 to 50.64% in 2006-07.</li> <li>• Effective management of human resources ensuring a favorable teacher-staff ratio.</li> <li>• Strict financial management, adherence to financial rules and regular audit.</li> <li>• The budget allocation for the year 2008-09 on the specified heads is 436.43 lakhs.</li> </ul>
<p>2.6.6. Best practices in Governance and Leadership (If any)</p>	<ul style="list-style-type: none"> <li>• Reduction of teacher- non-teaching ratio to 1:2 and reduction of salary component.</li> </ul>

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<p><b>7. Innovative Practices:</b></p> <p><b>2.7.1. Internal Quality Assurance System</b></p>       <p><b>2.7.2. Inclusive practices:</b></p>       <p><b>2.7.3. Stakeholder Relationships:</b></p>	<ul style="list-style-type: none"> <li>• The University has established the IQAC, which is expected to study the functioning of very constituent unit of academic and administrative system to suggest avenues for improvements within the existing conditions.</li> <li>• Lack of awareness about existence and activities of IQAC among students.</li> <li>• The University emphasizes the co-curricular activities as well as improvements in general awareness, skills, aptitudes and social and human responsibilities.</li> </ul> <ul style="list-style-type: none"> <li>• The University provides access to socially backward, economically weaker and differently abled students.</li> <li>• Operating as an equal opportunity organization ensuring equity, Justice and Freedom from Discrimination, which is emphasized as the core values in the mission statement.</li> <li>• Strict adherence to the reservation policies for the disadvantaged communities.</li> </ul> <ul style="list-style-type: none"> <li>• Starting from the court, Executive councils, to sports council, students welfare council, it includes representatives from all sections and levels.</li> <li>• Students as the primary stakeholder are involved in decision making process. There are students representatives as member of the highest authorities, the court and the Executive councils.</li> <li>• Networking with the neighborhood communities through providing support to them in identified area.</li> </ul>
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## SECTION III: OVERALL ANALYSIS

## 3.1. Institutional strength:

- The institution has good ambience for teaching, research and extension activities.
- By considering previous assessment report of the NAAC recommendation University have strengthen the research consultancy by undertaking various assignments with the UNESCO, UNICEF, SDS, NGO's and the State and central Governments.
- The University conducts out reach programmes through the centre for adult and continuing Education and Extension of various certificate courses.
- About 50 faculty members have obtained awards from different organizations.
- A large number of national and international organizations have come forward to have MoUs with the University.
- Almost all faculty members are dedicated workers concentrating in their subject of specialization and guide more number of students.
- JATROPHA trees are planted in 30 acres of land..
- A Separate Council for UG and PG programmes.

## 3.2. Institutional weakness:

- The University has no special provision for identifying slow and advanced learners.
- The University has to form grievance redressal cell for students and staff, employment and information guidance bureau and placement cell for students and research scholars.
- Computerized audit need to be conducted on regular basis.
- The University has to increase number of students appearing and qualifying in competitive examinations.
- Inadequate budgetary provisions to meet the overall campus development and academic support services
- Limited use of ICT in teaching-learning and administration.
- Limited infrastructure and learning resources.

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## 3.3. Institutional Opportunities:

- The institution has a large scope for expanding its societal development activities by adopting villages.
- The University has a good number of research scholars and research programmes which provide ample opportunity for betterment of collaborative research and research projects.
- It being located in an urban area with adequate land which has potential for future growth and expansion.
- The University has good scope for organizing entrepreneurship and skill upgradation programme for both students and staffs.
- The University has large scope for value added courses and bridge courses.
- Extension and community development using NSS, Adult and Continuing Education and Folklore.

## 3.4. Institutional Challenges:

- To contribute to community development women empowerment and global competency among the students.
- To become an institute with potential for excellence
- To provide flexibility to students and design programmes for differently abled students.
- To strengthen linkages among all departments.
- Getting more funds to maintain the infrastructure for future needs consistent efforts and contribution.
- Introducing reforms in educational administration and introduction of institutional best practices.
- Automation of administration including finance.
- Introducing new courses and getting national facilities.
- Establishment of new schools and recruitment of fresh faculty.
- Changing institutional policies for adopting to the concept of globalization is a major task.

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#### Section IV: Recommendations for Quality Enhancement of the Institution

- The University may think of introducing more twinning and dual degree programmes with overseas universities.
- The University may take initiative for forming a grievance redressal cell. The career guidance and counseling as well as the placement cell need to be strengthened.
- The University may take initiative for establishing an Educational Multimedia Research centre, FM radio for student participation and community orientation, printing and publications division to release research journals.
- There is a need to provide virtual class room facilities in DODL and Create e-learning resources in almost all subjects.
- The university need to switch over entirely to semester system and adopt choice based credit system in due course of time.
- Initiate to offer bridge courses for educationally disadvantage student and make special provision for slow and advance learners.
- The University may introduce special health packages for teachers and students.
- Need to improve collection of feed back from teachers, students, parents and alumni.
- The University should take initiatives for establishing advanced courses through ODL mode.
- Consider establishing Centre for Women's studies, Centre for Epoch making social thinkers, Centre for Studies on social inclusion and exclusion policies, Centre for South Asian studies and Plant Clinic.
- Courses like Applied Botany, Seed Science and technology, Food science and Nutrition, Food Technology, Electronic media, Geoinformatics, Social Work, Music and Drama may be started under the current plan period.

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	<p>19</p> <ul style="list-style-type: none"> <li>• The University may think of further strengthening by adding a few courses in Engineering and Technology and management faculties by establishing Institute of Engineering and Technology Institute of Management studies with more PG diplomas and electives for getting jobs in different streams.</li> <li>• More endowment chairs shall be created for cultural exchange</li> <li>• The facilities of the Guest house shall be enhanced to meet the basic amenities of examiners and resource persons coming to the university.</li> <li>• The surveillance system shall be improved with modern equipment and monitoring unit.</li> <li>• Interdisciplinary subjects requiring satellite images, CDROM databases, Audio-Video capturing equipment, display and public address systems shall be procured and distributed.</li> <li>• Streamlining the MoUs for their real applications to the growth of the University.</li> <li>• The finance department of the University may fully be computerized its processes and avoid the duplication of works.</li> <li>• More budget allocation is needed for the library and the staff required to maintain the library at higher level be recruited.</li> <li>• The OPAC may be made fully operational with bar codes and bar code readers for transactions. The students shall be permitted to have open access to the stack.</li> <li>• The library shall be kept open between 8AM and 8PM during working days, 8AM and 10PM before /during examinations and atleast 8 hours during holidays.</li> <li>• Charges for Internet usage at the information centre may have to be reduced to provide more equity and access.</li> <li>• All hostels need complete modernization in terms of electrical and sanitation facilities.</li> <li>• Students at PG level require well-furnished accommodation with all basic amenities.</li> <li>• Teachers should be encouraged to participate in national and International Conferences and to publish articles in peer reviewed journals.</li> <li>• Competitive examination coaching center and remedial classes with spoken English coaching may be started.</li> </ul> <p>B. J. P.</p>
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- Statutes and ordinances may be revised to keep pace with current academic scenario.
- IQAC may be revitalized and activated as per NAAC guidelines.



Signature of the Head of the Institution  
 Professor Dr. Arabinda Kumar Das  
 Seal of the Institution

Professor Arabinda Kumar Das  
 Vice-Chancellor  
 University of Kalyani  
 Kalyani - 741235

#### Signature of the Peer Team Members:

Chairman: Prof. B Hanumaiah

B Hanumaiah 6.6.08

Members: Prof. Pankajam.G

Pankajam.G 6/6/08

Prof. A Balasubramanian

A Balasubramanian 6.6.08

Prof. Jacob John Kattakayam

Jacob John Kattakayam 6/6/08

Prof. Meenakshi Kilam

Meenakshi Kilam 6/6/08

Prof. Harish C.S Rathore

Harish C.S Rathore 6/6/08

NAAC Coordinating Officer:

Dr. Jagannath Patil

Place: Kalyani

Date: 6/6/2008

Jagannath Patil 6/6/08

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## University of Kalyani

## List of Affiliated NAAC Accredited Colleges

SL. NO.	Name of the College	Telephone Number, Website and E-mail Address	NAAC assessment done in the past	NAAC validation status
1	<b>Berhampore College</b> P.O.- Baharampur, Dist.- Murshidabad, Pin- 742101 Principal- Dr. Samaresh Mandal	03482-252545 Mob: 9474319266 www.berhamporecollege.in berhamporecollege@yahoo.com	2007 Grade- B	NAAC validation is over
2	<b>Berhampore Girls' College</b> P.O.- Baharampur, Dist.- Murshidabad, Pin- 742101 T.I.C.- Smt. Keya Ghatak	03482-251193 Mob: 9474710289 www.berhamporegirlscollege.org bge2007@rediffmail.com	2004 Grade- B+	NAAC validation is over
3	<b>Chakdaha College</b> P.O.- Chakdaha, Dist.- Nadia, Pin- 741222 Principal- Dr. Swagata Das Mohanta	03473-242268 Mob: 8599951670, 9831230275 www.chakdahacollege.in chakdahacollege1972@gmail.com	2008 Grade- B	NAAC validation is over
4	<b>Dr. B.R. Ambedkar College</b> P.O.- Betai, Dist.- Nadia, Pin- 741163 T.I.C.- Sri. Pankaj Bhattacharyya	03471-254207 / 254716 (Telefax) Mob: 8017574151 www.brambedkarcollegebetai.in ambedkarcollege@rediffmail.com	2009 Grade- C	NAAC validation is over
5	<b>Dukhulal Nibaran Chandra College</b> P.O.- Aurangabad, Dist.- Murshidabad, Pin- 742201 T.I.C.- Dr. Syamal Kumar Mandal	03485-262477 (Telefax) Mob: 9434640758 www.dnccollege.com dnccollege@gmail.com;	2009 Grade- B+	NAAC validation is over
6	<b>Dwijendralal College</b> P.O.- Krishnanagar, Dist.- Nadia, Pin- 741101 Principal- Sk. Sahajahan Ali	03472-252240 (Telefax) Mob: 9434245262 www.dwijendralalcollege.org info@dwijendralalcollege.org	2003 Grade- C	NAAC validation is over
7	<b>Haringhata Mahavidyalaya</b> P.O.- Haringhata, Dist.- Nadia, Pin- 741249 Principal - Dr. Pratiap Chandra Mandal	03473-233318 / 232-273 (Telefax) Mob: 9433402501, 9091818201 www.haringhatamahavidyalaya.org haringhatamahavidyalaya@rediffmail.com;	2006 Grade- B	NAAC validation is over
8	<b>Jangipur College</b> P.O.- Jangipur, Dist.- Murshidabad, Pin- 742213 T.I.C.- Dr. Naba Kumar Ghosh	03483-264226 Mob: 9474462874 www.jangipurcollege.in jangipurcollege@yahoo.com	2007 Grade- B+	NAAC validation is over
9	<b>Jatindra Rajendra Mahavidyalaya</b> P.O.- Amtala, Dist.- Murshidabad, Pin- 742121 T.I.C.- Smt. Geetali Bera	03482-247244 / 107 (Telefax) Mob: 9434687179 / 9733624651 www.jrm.org.in principal@jrm.org.in	2007 Grade- C++	NAAC validation is over
10	<b>Kanchrapara College</b> P.O.- Kanchrapara, Dist.- 24 Pgs. (N), Pin- 743145 Principal - Dr. Chhanda Sukla Hazra	033-25858790 / 5159 Mob: 9433760056 www.kpcoll.net info@kpcoll.net	2007 Grade- B+	NAAC validation is over
11	<b>Krishnagar Govt. College</b> P.O.- Krishnanagar, Dist.- Nadia, Pin- 741101 O.I.C.- Dr. Anupam Chakraborty	03472-252863 / 252810 (Telefax) Mob : 9163434061 www.krishnagarovtcollege.org kgcollege1846@gmail.com	2008 Grade- A	2015 Grade- A
12	<b>Krishnagar Women's College</b> P.O.- Krishnanagar, Dist.- Nadia, Pin- 741101 Principal- Dr. Manabi Bandyopadhyay	03472-252355 (Telefax) Mob: 9433276536 www.krishnagarwomenscollege.org kwc.edu@gmail.com	2005 Grade- B+	NAAC validation is over
13	<b>Krishnath College</b> P.O.- Baharampur, Dist.- Murshidabad, Pin- 742101 Principal- Dr. Sujata Bagchi Banerjee	03482-252069 / 257870 (Fax) Mob: 9434533634, 8967816192 www.krishnath-college.org knc_principal@rediffmail.com;	2009 Grade- B	NAAC validation is over
14	<b>Nabadwip Vidyasagar College</b> P.O.- Nabadwip, Dist.- Nadia, Pin- 741302 Principal- Dr. Buddhadeb Bandhopadhyay	03472-240014 (Telefax) Mob: 9433124443 www.nvcollege.in nvcollege1942@gmail.com	2007 Grade- B	NAAC validation is over
15	<b>Ranaghat College</b> P.O.- Ranaghat, Dist.- Nadia, Pin- 744205 T.I.C.- Dr. Arup Maity	03473- 215685 / 210111, (Fax) Mob: 9433888816 www.ranaghatcollege.org.in ranaghatcollege@gmail.com	2008 Grade- B+	NAAC validation is over

16	<b>Rani Dhanya Kumari College</b> P.O.- Jiaganj, Dist.- Murshidabad, Pin- 742123 Principal- Dr. Ajoy Adhikari	03483-255330, <b>256948</b> (Fax) Mob: 9434315508 / 9564277388 www.rdkcollege.in rdkcollege@yahoo.com	2007 Grade- C++	NAAC validation is over
17	<b>Santipur College</b> P.O.- Santipur, Dist.- Nadia, Pin- 741404 Principal- Dr. Chandrima Bhattacharya	03472-278028 Mob : 9830307994 www.santipurcollege.org santipurcollegenadia@gmail.com;	2007 Grade- B+	NAAC validation is over
18	<b>Srikrishna College</b> P.O.- Bagula, Dist.- Nadia, Pin- 741502 Principal- Dr. Sukdeb Ghosh	03473- 272205, 273812 (Telefax) Mob : 9433874185 www.srikrishnacollegebagula.org srikrishnacollegebagula@rediff.com	2007 Grade- B+	2015 Grade- B
19	<b>Sripat Singh College</b> P.O.- Jiaganj, Dist.- Murshidabad, Pin- 742123 Principal- Dr. Shamsuzzaman Ahmed	03483-255351, <b>256961</b> (Telefax) Mob : 9434021480 www.ss-college.org sscollege2009@gmail.com	2004 Grade- B+	NAAC validation is over
20	<b>Sudhiranjan Lahiri Mahavidyalaya</b> P.O.- Majdia, Dist.- Nadia, Pin- 741507 Principal- Dr. Sarojendra Nath Kar	03472-276206 Mob: 9433756994 / 8113970726 www.srlm.org srlmahavidyalaya@rediffmail.com	2008 Grade- B	2014 Grade- B
21	<b>Union Christian Training College</b> P.O.- Baharampur, Dist.- Murshidabad, Pin - 742101 Principal - Dr. Sasim Kabiraj Thakur	03482-250254/ <b>251255</b> (Telefax) Mob: 9932886234 www.uctcollege.org principaluctc@rediffmail.com	2009 Grade- B	NAAC validation is over

**List of General College**

Registration of 2015 - 2016		
SL.No.	College Name	Total Students
1	Kanchrapara College	2254
2	Raja Birendra Ch. College	905
3	Muragachha Govt. College	160
4	Tahatta Govt. College	149
5	Kaliganj Govt. College	154
6	Muzz. Ahamed Mahavidyalaya	1596
7	Panchthupi haripada Gouribala	411
8	Nagar College	1029
9	Dwijendra Lal College	2346
10	Kandiraj College	1200
11	Jalangi Mahavidyalaya	1042
12	Dukhulal Nibaran Chandra	2049
13	asannagar MMT College	590
14	Subhas Ch. Bose College	1936
15	Hazi A K Khan College	700
16	Jatindra rajendra Mahavidyalaya	1448
17	Lalgola College	1477
18	Sagardighi KKS Mahavidyalaya	695
19	Dumkal College	783
20	G.D College	357
21	Berhampore College	2118
22	Pritilata wadder Mahavidyalaya	126
23	Jangipur College	2874
24	Plassay College	1518
25	Domkal Girl's colleg	758

Registration of 2015 - 2016		
SL.No.	College Name	Total Students
26	Kr. Govt College	791
27	Chakdaha College	2284
28	Msd. Adarsha mahavidyalaya	1453
29	Berhampore Girl's College	860
30	Santipur College	2282
31	Sudhir Ranjan lahiri Mahavidy	2038
32	Karimpur Pannadevi College	2103
33	Chapra Govt. College	110
34	Ranaghat College	5129
35	Krishnath College	1560
36	Chapra Bangalji Mahavidyalay	1432
37	Kr. Women's College	883
38	Srikrishna College	4494
39	Nur Md. Smriti Mahavidyalaya	1418
40	S R fatepuria	2482
41	Rani Dhanya Kumari College	1051
42	B R Ambedkar College	2514
43	Bethuadahari College	1939
44	Sripat Singh College	2235
45	Nabagram Amar Chand Kundu	703
46	Nabadwip Vidyasagar College	2568
48	Haringhata Mahavidyalaya	1669
49	Kalyani Mahavidyalaya	1836
	Late submitted	206
	<b>Total Student</b>	<b>74061</b>



**List of B.Ed College**

Registration of 2015 - 2016		
SL.No.	College Name	Total Students
1	Dr. Sarvepalli Radhakrishnan	100
2	Education College	81
3	Aurangabad Bed College	100
4	Netaji Subhas Ch. Bose(PITI)	97
5	Jiaganj Inst. Of Education and Tr.	92
6	Berhampore Bed	98
7	Bhimpur Mohananda Bed	100
8	Netaji Subhas Chandra coll of Educ	43
9	Gitanjali Bed	100
10	Prabharani Bed	64
11	Indira gandhi Bed	100
12	Gokhrapota Bed	100
13	Jakir Hossain	86
14	Moulana Abul kalam Azad Chaitanya College of Education	100
15	Santipur Bed	98
17	Dainhat Joy Ma Tara	14
18	Plassey T.T. Inst.	89
19	Sri Ramkrishna Sarada Coll.	100
20	abdur Rahim Panchnan Pal Inst.	75
21	Azad Mission T.T	99
22	St. Mary	99
23	Seva Bharati Bed	98
24	sayamangini Kundu Bed	100
25	Bhimpur Bed	97
26	Jalangi Bed	100
27	Angel Bed	100
28	Durgapur Anandamoy bed	99
29	Abdur Sattar Momeria Bed	91
30	Suniti Bed	84
31	J R SET	98
32	Prabharani Inst. Of Bed	15
33	Nathulal Das Bed	100
34	Nibedita T T.	100
35	Acharja Jagadish Chandra Maharaja Mnindra Chandra	85
36		98

Registration of 2015 - 2016		
SL.No.	College Name	Total Students
37	Bengal Coll. Of Education	97
38	Antony Bed	95
39	Provadevi Bed	27
40	Baluchar Pri. T t	97
41	Sagardighi T T	49
42	Aurangabad Bed Trg.College	50
43	Rosomoyee Vivakananda	49
44	Minerva Academy Bed coi.	.....
45	Sambhu Nath Memorial coll of edu	28
46	Syed Murtaza Ali coll of edu	57
48	Matari Bed	49
49	Netaji Bed	66
50	Msd. Minority Bed	48
51	Pandit raghunath Murmu	53
52	Kabi Kirtibas Bed	99
53	Monarch Coll. Of education	99
54	Bhujanga bhusan Ushangini	99
55	Sofia memorial bed	82
56	Renuka Debi Bed	100
57	B K J K school of edu	100
58	C K R Inst. Of education	100
59	Chandra Dweep coll of Education	100
60	al-Hilal Mission Train	46
61	kaviguru Nobel Cent. Tr. Coll	72
62	Hadechha Luchimuddin	100
63	Kabiguru Coll of Education	85
64	BJNS Bed col	99
65	Bhakta Bala Bed Coi	....
66	Simurali S,College of Education	81
67	UCTC Berampur	200
	<b>Total Student</b>	<b>5519</b>



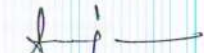
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**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2010-11**

During 2009-10	INCOME	Schedule	Amount	Amount
₹			₹	₹
	<b>1 GOVT. GRANTS</b>			
455,412,351.00	1.1 STATE GOVT. GRANTS	23	614,190,200.00	
-	1.2 UGC (UNASSIGNED GRANT)		-	
455,412,351.00				614,190,200.00
	<b>2 UNIVERSITY OWN SOURCES</b>			
54,879,436.00	2.1. FEES FROM STUDENTS	24	59,712,225.00	
3,315,583.70	2.2. NON-FEE RECEIPTS	25	21,615,958.48	
2,044,308.90	2.3. MISCELLANEOUS	26	1,992,492.09	
60,039,328.60				83,320,675.57
34,913,877.00	<b>3 DODL SOURCES OF INCOME</b>	DODL/2		
				67,602,085.00
560,365,556.60	<b>TOTAL INCOME (A)</b>			765,112,960.57



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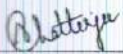



MRIDUL KUNDU  
 FINANCE OFFICER  
 UNIVERSITY KALYANI

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**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March, 2011**  
**LIABILITIES**

HEADS	SCHEDULE	BALANCE AS ON 31.03.2010	ADDITION	BALANCE AS ON 31.03.2011
		₹	₹	₹
1 GENERAL FUND (Including Net Surplus Transferred from Income & Expenditure A/C)	1	668,804,429		790,685,350
2 DEVELOPMENT FUND INCLUDING UGC PL	2	57,798,911	20,655,230	78,454,141
3 DEVELOPMENT CORPUS FUND	3	51,565,009	3,259,527	54,824,536
4 RETIREMENT BENEFIT FUNDS:				
4.1 PENSION FUND	4A	68,313,609	13,923,987	82,237,596
4.2 LEAVE SALARY & GRATUITY FUND	4B	45,729,895	4,456,881	50,186,776
		114,043,504	18,380,868	132,424,372
5 PROVIDENT FUND	5	222,473,844	7,338,439	229,812,283
6 ENDOWMENT FUND	6	1,601,096	139,086	1,740,182
7 CDOOL FUND	DODL/1	57,011,217		97,960,279
8 SCHEME & PROJECT FUND	7A & 7B	44,039,467	20,424,711	64,464,178
9 REFUNDABLE DEPOSIT :				
9.1 Contractors' Security Deposits	8A	4,730,650	(1,772,312)	2,958,338
9.2 Caution Deposits	8B	1,615,654	401,650	2,017,304
		6,346,304	(1,370,662)	4,975,642
10 CURRENT LIABILITIES:				
10.1 Provision for expenditure	9A	6,845,731	2,780,198	4,065,533
10.2 Statutory liabilities	9B	228,219	-	1,298,511
10.3 Liability for undischursed payments		29,976	(11,346)	18,630
		7,103,926	2,768,852	5,362,674
<b>TOTAL LIABILITIES:</b>		<b>1,230,787,707</b>	<b>71,596,051</b>	<b>1,460,723,637</b>

  
 SHILADITYA CHATTERJEE  
 ACCOUNTS OFFICER  
 UNIVERSITY OF KALYANI

  
 ANJAN KUMAR DAS  
 AUDIT & ACCOUNTS  
 OFFICER

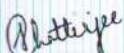
  
 MRIDUL KUNDU  
 FINANCE OFFICER  
 UNIVERSITY KALYANI


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**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March,2011**

**ASSETS:**

HEADS	SCHEDULE	BALANCE AS ON 31.03.2010	ADDITION	BALANCE AS ON 31.03.2011
		₹	₹	₹
<b>1 FIXED ASSETS</b>				
<b>[After charging Depreciation (Sch-19)]</b>				
1.1 BUILDINGS	10	155,716,668	13,094,466	161,025,273
1.2 ROADS	11	16,924,456	893,085	16,125,094
1.3 ELECTRICAL INSTALLATION	12	9,820,036	790,347	9,628,376
1.4 VEHICLES	13	92,261	-	83,033
1.5 LABORATORY EQUIPMENT	14	32,834,669	3,080,555	31,032,512
1.6 CLASS/ OFFICE EQUIPMENT	15	11,076,284	2,201,088	11,615,906
1.7 COMPUTER & SOFTWARE	16	3,034,967	132,810	2,712,517
1.8 FURNITURE & FITTINGS	17	10,737,083	295,090	9,958,440
1.9 E - Journal	18	2,748,445	1,980,000	3,629,067
1.10 BOOKS & JOURNALS	18	27,772,229	3,078,409	29,462,012
		<b>270,807,098</b>	<b>25,545,850</b>	<b>275,272,230</b>
<b>DODL ASSETS</b>	<b>DODL/1</b>	<b>2,657,825</b>		<b>2,944,844</b>
<b>INVESTMENTS AGAINST ENDOWMENT FUND</b>	<b>6</b>	<b>1,296,610</b>	<b>124,000</b>	<b>1,420,610</b>
<b>4 LOANS &amp; ADVANCES:</b>				
4.1 Loans	20	85,000	(15,000)	70,000
4.2 Advances	21	13,140,972	584,896	13,725,868
4.3 DODL Advance	<b>DODL/6</b>	<b>48,000</b>		<b>50,000</b>
		<b>13,273,972</b>	<b>569,896</b>	<b>13,845,868</b>
<b>BANK BALANCES</b>	<b>22</b>	<b>942,722,226</b>	<b>-</b>	<b>1,167,221,455</b>
<b>CASH BALANCES</b>		<b>29,976</b>	<b>(11,346)</b>	<b>16,630</b>
<b>TOTAL ASSETS:</b>		<b>1,230,787,707</b>	<b>26,228,400</b>	<b>1,460,723,637</b>

  
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
  
 ANJAN KUMAR DAS  
 AUDIT & ACCOUNTS  
 OFFICER


  
 MRIDUL KUNDU  
 FINANCE OFFICER  
 UNIVERSITY KALYANI

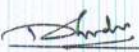
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**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2010-11**

During 2009-10	EXPENDITURE	Schedule	Amount	Amount
	<b>REVENUE EXPENDITURES</b>		₹	₹
88,946,344.00	<b>1 PAY, ALLOWANCE &amp; FELLOWSHIP</b>	<b>27</b>		
55,150,829.00	1.1 FACULTY OF SCIENCE		113,067,783.00	.
20,742,767.00	1.2 FACULTY OF ARTS & COMM		68,045,284.00	
16,774,865.00	1.3 FACULTY OF EDUCATION		22,565,816.00	
70,076,195.00	1.4 FACULTY OF ENGG. TECH. MAGT.		22,724,168.00	
61,600.00	1.5 GENERAL ADMINISTRATION		85,249,203.00	
5,815,212.00	1.7 FINE ARTS		89,200.00	
	1.7 MESS WORKERS		8,737,395.00	
258,667,812.00				320,528,649.00
	<b>2 CONTINGENCIES</b>	<b>28</b>		
4,290,798.00	2.1 FACULTY OF SCIENCE		4,568,705.00	
950,230.00	2.2 FACULTY OF ARTS & COMM		1,597,213.00	
769,235.00	2.3 FACULTY OF EDUCATION		882,435.00	
389,541.00	2.4 FACULTY OF ENGG. TECH. MAGT.		1,066,457.00	
6,424,240.00	2.5 GENERAL ADMINISTRATION		9,008,862.00	
999,139.00	2.6 USIC & INSPARC & CIRM		1,555,239.00	
105,800.00	2.7 STUDENT AFFAIRS & PLACEMENT		150,000.00	
17,974,399.00	2.8 COMMON FACILITIES & Fine Arts		28,073,816.00	
31,983,382.00			46,902,727.00	
7,815,998.00	<b>2.9 MISCELLANEOUS</b>	<b>29</b>	12,772,600.00	
28,589,380.00				59,675,327.00
	<b>3 TRANSFER TO DIFFERENT FUNDS</b>			
66,500,000.00	3.1 PENSION FUND A/C.	4A	127,821,217.00	
11,800,000.00	3.2 LEAVE SALARY & GRAT.A/C.	4B	28,253,023.00	
78,306,000.00				156,074,240.00
18,768,852.00	<b>4 EXAMINATION EXPENSES</b>	<b>30</b>	28,673,688.00	
978,646.00	<b>5 RESEARCH GRANT (TEACHER/OFFICER RS)</b>	<b>31</b>	1,055,554.00	
610,278.00	<b>6 EXP. FROM UGC UNASSIGNED GRANT</b>	<b>33</b>	1,033,423.00	
18,470,255.50	<b>7 DODL EXPENDITURE</b>	<b>DODL/2</b>	28,129,615.39	
38,828,031.50				58,892,200.39
415,395,223.50	<b>TOTAL EXPENDITURE (B)</b>			595,170,496.39
144,970,333.10	<b>8 SURPLUS OF INCOME OVER EXPENDITURE (A-B)</b>			169,942,464.18
2,151,100.00	<b>9 Less: Provision for liabilities for expenses agt. Unadjusted advance during 2009-10</b>	<b>34</b>		2,777,068.00
17,807,854.00	<b>10 DEPRECIATION CHARGED</b>	<b>19</b>		21,080,718.00
125,011,378.10	<b>NET SURPLUS TRANSFERRED TO BALANCE SHEET</b>			146,084,678.18

  
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 UNIVERSITY KALYANI



**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2011-12**

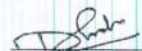
During 2010-11	INCOME	Schedule	Amount	Amount
₹			₹	₹
	<b>1 GOVT. GRANTS</b>			
614,190,200.00	1.1 STATE GOVT. GRANTS	23	595,333,596.00	
-	1.2 TRAVEL GRANT		90,000.00	
614,190,200.00				595,423,596.00
	<b>2 UNIVERSITY OWN SOURCES</b>			
59,712,225.00	2.1. FEES FROM STUDENTS	24	74,396,439.02	
21,615,958.48	2.2. NON-FEE RECEIPTS	25	21,741,647.20	
1,992,492.09	2.3. MISCELLANEOUS	26	5,208,165.30	
83,320,675.57				101,346,251.52
67,602,085.00	<b>3 DODL SOURCES OF INCOME</b>	DODL/2		70,605,851.00
765,112,960.57	<b>TOTAL INCOME (A)</b>			767,375,698.52



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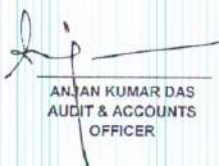
**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March,2012**

**LIABILITIES**

HEADS	SCHEDULE	BALANCE AS ON 31.03.2011	ADDITION	BALANCE AS ON 31.03.2012
		₹	₹	₹
1 GENERAL FUND (Including Net Surplus Transferred from Income & Expenditure A/C)	1	790,685,350		877,041,328
2 DEVELOPMENT FUND INCLUDING UGC PL	2	78,454,141	38,120,442	116,574,583
3 DEVELOPMENT CORPUS FUND	3	54,824,536	28,206,280	83,030,816
4 RETIREMENT BENEFIT FUNDS:				
4.1 PENSION FUND	4A	82,237,596	5,447,255	87,684,851
4.2 LEAVE SALARY & GRATUITY FUND	4B	50,196,776	14,898,590	65,085,366
		132,424,372	20,345,845	152,770,217
5 PROVIDENT FUND	5	229,812,283	14,420,680	244,233,163
6 ENDOWMENT FUND	6	1,740,182	12,507	1,752,689
7 DODL FUND	DODL/1	97,960,279		153,107,114
8 SCHEME & PROJECT FUND	7A & 7B	64,464,178	17,931,921	82,396,099
9 REFUNDABLE DEPOSIT :				
9.1 Contractors' Security Deposits	8A	2,958,338	(391,072)	2,567,266
9.2 Caution Deposits	8B	2,017,304	57,920	2,075,224
9.3 UGC Refresher Course		-	-	-
		398,952,564	32,032,156	486,131,555
10 CURRENT LIABILITIES:				
10.1 Provision for expenditure	9A	4,065,533	651,388	3,414,145
10.2 Statutory liabilities	9B	1,298,511	747,563	550,948
10.3 Liability for undisbursed payments		18,630	-	19,501
		5,382,674	1,398,951	3,984,594
<b>TOTAL LIABILITIES:</b>		<b>1,460,723,637</b>	<b>120,103,674</b>	<b>1,719,533,093</b>



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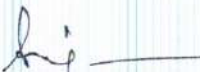
MRIÐUL KUNDU  
 FINANCE OFFICER  
 UNIVERSITY KALYANI


**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March, 2012**

**ASSETS:**

	HEADS	SCHEDULE	BALANCE AS ON 31.03.2011	ADDITION	BALANCE AS ON 31.03.2012
			₹	₹	₹
1	<b>FIXED ASSETS</b>				
	<u>[After charging Depreciation Sch-19]</u>				
	1.1 BUILDINGS	10	161,025,273	8,744,358	161,718,331
	1.2 ROADS	11	16,125,094	-	14,512,584
	1.3 ELECTRICAL INSTALLATION	12	9,828,376	3,441,995	12,107,528
	1.4 VEHICLES	13	83,033	-	74,728
	1.5 LABORATORY EQUIPMENT	14	31,032,512	1,498,296	27,875,920
	1.6 CLASS/ OFFICE EQUIPMENT	15	11,615,906	4,343,792	14,217,289
	1.7 COMPUTER & SOFTWARE	16	2,712,517	1,441,028	3,746,655
	1.8 FURNITURE & FITTINGS	17	9,958,440	3,856,763	12,819,337
	1.9 E - Journal	18	3,629,087	4,312,418	6,469,859
	1.10 BOOKS & JOURNALS	18	29,462,012	3,052,465	31,041,360
			<b>275,272,230</b>	<b>30,691,115</b>	<b>284,603,590</b>
2	<b>DODL ASSETS</b>	DODL/1	2,944,844		3,195,192
3	<b>INVESTMENTS AGAINST ENDOWMENT FUND</b>	6	1,420,610	-	1,420,610
4	<b>LOANS &amp; ADVANCES:</b>				
	4.1 Loans	20	70,000	(70,000)	-
	4.2 Advances	21	13,725,868	(582,403)	13,143,465
	4.3 DODL Advance	DODL/6	50,000		271,503
			<b>18,211,322</b>	<b>(652,403)</b>	<b>18,030,770</b>
5	<b>BANK BALANCES</b>		1,167,221,455		1,416,879,232
6	<b>CASH BALANCES</b>	22	18,630	-	19,501
	<b>TOTAL ASSETS:</b>		<b>1,460,723,637</b>	<b>30,038,712</b>	<b>1,719,533,093</b>

  
 SHILADITYA CHATTERJEE  
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 OFFICER

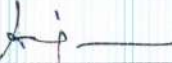
  
 MRIDUL KUNDU  
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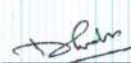


**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2011-12**

During 2010-11	EXPENDITURE	Schedule	Amount ₹	Amount ₹
	<b>REVENUE EXPENDITURES</b>			
113,067,783.00	<b>1 PAY, ALLOWANCE &amp; FELLOWSHIP</b>	<b>27</b>	117,759,281.00	
58,045,284.00	1.1 FACULTY OF SCIENCE		68,727,248.00	
22,595,610.00	1.2 FACULTY OF ARTS & COMM		22,834,319.00	
22,724,168.00	1.3 FACULTY OF EDUCATION		12,881,425.00	
85,249,203.00	1.4 FACULTY OF ENGG. TECH. MAGT.		93,993,307.00	
	1.5 GENERAL ADMINISTRATION		11,646,544.00	
89,200.00	1.6 USIC		182,600.00	
8,787,395.00	1.7 FINE ARTS		9,988,375.00	
	1.8 MESS WORKERS			
339,528,649.00				338,013,299.00
	<b>2 CONTINGENCIES</b>	<b>28</b>		
4,598,705.00	2.1 FACULTY OF SCIENCE		4,071,883.00	
1,597,213.00	2.2 FACULTY OF ARTS & COMM		1,064,127.00	
882,435.00	2.3 FACULTY OF EDUCATION		1,351,717.00	
1,086,457.00	2.4 FACULTY OF ENGG. TECH. MAGT.		1,278,921.00	
9,008,862.00	2.5 GENERAL ADMINISTRATION		7,887,656.00	
1,555,230.00	2.6 USIC & INSPARC & CIRM		1,787,605.00	
150,000.00	2.7 STUDENT AFFAIRS & PLACEMENT		131,221.00	
28,073,816.00	2.8 COMMON FACILITIES & Fine Arts		25,145,558.00	
46,902,727.00			42,718,788.00	
12,772,600.00				
59,675,327.00	<b>2.9 MISCELLANEOUS</b>	<b>29</b>	15,701,498.00	58,420,285.00
	<b>3 TRANSFER TO DIFFERENT FUNDS</b>			
127,821,217.00	3.1 PENSION FUND A/C.	4A	144,767,917.00	
28,253,023.00	3.2 LEAVE SALARY & GRAT A/C.	4B	24,000,000.00	168,767,917.00
158,074,240.00				
28,673,688.00	<b>4 EXAMINATION EXPENSES</b>	<b>30</b>	31,837,804.00	
1,055,554.00	<b>5 RESEARCH GRANT (TEACHER/OFFICER RS)</b>	<b>32</b>	1,323,356.00	
1,033,423.00	<b>6 EXP. FROM UGC UNASSIGNED GRANT</b>	<b>33</b>	1,618,894.00	
28,129,615.39	<b>7 DODL EXPENDITURE</b>	<b>DODL/2</b>	17,936,399.58	
				52,718,453.58
595,170,496.39	<b>TOTAL EXPENDITURE (B)</b>			617,919,955.58
169,942,464.18	<b>8 SURPLUS OF INCOME OVER EXPENDITURE (A-B)</b>			149,455,742.94
2,777,068.00	<b>9 Less: Provision for liabilities for expenses agt.unadjusted advance during 2011-12</b>	<b>34</b>		1,045,230.00
21,090,718.00	<b>10 DEPRECIATION CHARGED</b>	<b>19</b>		21,359,755.00
146,034,678.18	<b>NET SURPLUS TRANSFERRED TO BALANCE SHEET</b>			127,050,757.94

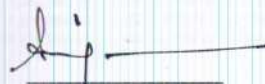
  
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**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2012-13**

During 2011-12	INCOME	Schedule	Amount	Amount
₹			₹	₹
	<b>1 GOVT. GRANTS</b>			
595,333,596.00	1.1 STATE GOVT. GRANTS	23	562,969,037.00	
90,000.00	1.2 UGC (UNASSIGNED GRANT)		-	562,969,037.00
<b>595,423,596.00</b>				
	<b>2 UNIVERSITY OWN SOURCES</b>			
74,396,439.22	2.1. FEES FROM STUDENTS	24	75,574,162.00	
21,741,647.20	2.2. NON-FEE RECEIPTS	25	60,013,442.01	
5,208,165.30	2.3. MISCELLANEOUS	26	1,200,264.00	
<b>101,346,251.72</b>				136,787,868.01
<b>101,346,251.72</b>				
70,605,851.00	<b>3 DODL SOURCES OF INCOME</b>	DODL/2		111,494,868.00
<b>767,375,698.72</b>	<b>TOTAL INCOME (A)</b>			<b>811,251,773.01</b>

  
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**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March,2013**

**LIABILITIES**

HEADS	SCHEDULE	BALANCE AS ON 31.03.2012	ADDITION	BALANCE AS ON 31.03.2013
		₹	₹	₹
1 GENERAL FUND (Including Net Surplus Transferred from Income & Expenditure A/C)	1	877,041,328		976,220,528
2 DEVELOPMENT FUND INCLUDING UGC PL	2	116,574,583	10,894,130	127,468,713
3 DEVELOPMENT CORPUS FUND	3	83,030,816	53,077,493	136,108,309
4 RETIREMENT BENEFIT FUNDS:				
4.1 PENSION FUND	4A	87,684,851	10,263,811	97,948,662
4.2 LEAVE SALARY & GRATUITY FUND	4B	65,085,366	(2,878,303)	62,207,063
		<b>152,770,217</b>	<b>7,385,508</b>	<b>160,155,725</b>
5 PROVIDENT FUND	5	244,233,163	18,268,046	262,501,209
6 ENDOWMENT FUND	6	1,752,689	346,419	2,099,108
7 DODL FUND	DODL/1	153,107,114		246,401,306
8 SCHEME & PROJECT FUND	7A & 7B	82,396,099	49,515,637	131,911,736
9 REFUNDABLE DEPOSIT :				
9.1 Contractors' Security Deposits	8A	2,567,266	1,505,985	4,073,251
9.2 Caution Deposits	8B	2,075,224	41,900	2,117,124
		<b>486,131,555</b>	<b>69,677,987</b>	<b>649,103,734</b>
10 CURRENT LIABILITIES:				
10.1 Provision for expenditure	9A	3,414,145	(82,488)	3,496,634
10.2 Statutory liabilities	9B	550,948	137,052	413,896
10.3 Liability for undisbursed payments		19,501	-	35,485
		<b>3,984,594</b>	<b>54,564</b>	<b>3,946,015</b>
<b>TOTAL LIABILITIES:</b>		<b>1,719,533,094</b>	<b>141,089,682</b>	<b>2,053,003,024</b>

  
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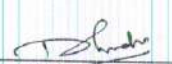
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**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March, 2013**

**ASSETS:**

HEADS	SCHEDULE	BALANCE AS ON 31.03.2012	ADDITION	BALANCE AS ON 31.03.2013
		₹	₹	₹
<b>1. FIXED ASSETS</b>				
<u>[After charging Depreciation Sch-19]</u>				
1.1 BUILDINGS	10	161,718,331	27,539,835	181,172,215
1.2 ROADS	11	14,512,584	3,870,349	16,931,674
1.3 ELECTRICAL INSTALLATION	12	12,107,528	5,981,641	16,878,413
1.4 VEHICLES	13	74,728	-	67,253
1.5 LABORATORY EQUIPMENT	14	27,875,920	12,992,270	36,686,791
1.6 CLASS/ OFFICE EQUIPMENT	15	14,217,289	3,184,500	15,269,171
1.7 COMPUTER & SOFTWARE	16	3,746,655	13,900	3,198,539
1.8 FURNITURE & FITTINGS	17	12,819,337	1,307,989	12,845,343
1.9 E - Journal	18	6,489,858	6,925,506	10,819,420
1.10 BOOKS & JOURNALS	18	31,041,360	5,788,227	35,277,503
		<b>284,603,590</b>	<b>67,604,197</b>	<b>329,146,322</b>
<b>2. DODL ASSETS</b>	<b>DODL/1</b>	3,195,192		3,217,075
<b>3. INVESTMENTS AGAINST ENDOWMENT FUND</b>	<b>6</b>	1,420,610	297,577	1,718,187
<b>4. LOANS &amp; ADVANCES:</b>				
4.1 Loans	20	-	-	-
4.2 Advances	21	13,143,465	120,804	13,264,270
4.3 DODL Advance	DODL/6	271,503		191,000
		<b>18,030,770</b>	<b>418,381</b>	<b>18,390,532</b>
<b>5. BANK BALANCES</b>	<b>22</b>	1,416,879,232		1,705,430,685
<b>6. CASH BALANCES</b>		19,501	0	35,485
<b>TOTAL ASSETS:</b>		<b>1,719,533,094</b>	<b>68,022,578</b>	<b>2,053,003,024</b>

  
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**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2012-13**


During 2011-12	EXPENDITURE	Schedule	Amount ₹	Amount ₹
	<b>REVENUE EXPENDITURES</b>			
117,759,281.00	<b>1 PAY, ALLOWANCE &amp; FELLOWSHIP</b>	27	123,402,997.00	
68,727,248.00	1.1 FACULTY OF SCIENCE		69,516,908.00	
22,834,319.00	1.2 FACULTY OF ARTS & COMM		25,051,388.00	
12,881,426.00	1.3 FACULTY OF EDUCATION		16,044,593.00	
93,993,507.00	1.4 FACULTY OF ENGG. TECH. MAGT.		95,428,871.00	
11,646,544.00	1.5 GENERAL ADMINISTRATION		11,631,109.00	
182,600.00	1.6 DETS		1,611,274.00	
9,988,375.00	1.7 FINE ARTS		9,419,166.00	
	1.8 MESS WORKERS			
338,013,299.00				352,106,306.00
	<b>2 CONTINGENCIES</b>	28		
4,071,983.00	2.1 FACULTY OF SCIENCE		5,074,778.00	
1,064,127.00	2.2 FACULTY OF ARTS & COMM		1,277,475.00	
1,351,717.00	2.3 FACULTY OF EDUCATION		1,115,175.00	
1,278,021.00	2.4 FACULTY OF ENGG. TECH. MAGT.		1,378,787.00	
7,887,656.00	2.5 GENERAL ADMINISTRATION		12,045,159.00	
1,787,605.00	2.6 DETS & RDM & CIRM		849,837.00	
131,221.00	2.7 STUDENT AFFAIRS & PLACEMENT		395,950.00	
25,145,558.00	2.8 COMMON FACILITIES & Fine Arts		35,592,590.00	
42,719,788.00			57,729,751.00	
15,701,498.00	2.9 MISCELLANEOUS	29	16,522,210.00	
68,420,286.00				74,251,961.00
	<b>3 TRANSFER TO DIFFERENT FUNDS</b>			
144,767,917.00	3.1 PENSION FUND A/C.	4A	110,799,016.00	
24,000,000.00	3.2 LEAVE SALARY & GRAT A/C.	4B	6,000,000.00	
168,767,917.00				116,799,016.00
31,837,804.00	<b>4 EXAMINATION EXPENSES</b>	30	34,083,845.00	
1,323,356.00	<b>5 RESEARCH GRANT (TEACHER/OFFICER RS)</b>	32	1,633,127.00	
1,618,894.00	<b>6 EXP. FROM UGC UNASSIGNED GRANT</b>	33	1,704,038.00	
17,938,399.58	<b>7 DODL EXPENDITURE</b>	DODL/2	22,221,633.00	
				59,642,643.00
617,919,955.58	<b>TOTAL EXPENDITURE (B)</b>			602,799,926.00
149,456,743.14	<b>8 SURPLUS OF INCOME OVER EXPENDITURE (A-B)</b>			208,451,847.01
1,045,230.00	<b>9 Less: Provision for liabilities for expenses agt.unadjusted advance during 2011-12</b>	34		1,596,635.00
21,359,755.00	<b>10 DEPRECIATION CHARGED</b>	19		23,061,465.00
127,060,758.14	<b>NET SURPLUS TRANSFERRED TO BALANCE SHEET</b>			183,793,747.01

  
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**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2013-14**

During 2012-13	INCOME	Schedule	Amount	Amount
₹			₹	₹
	<b>1 GOVT. GRANTS</b>			
562,969,037.00	1.1 STATE GOVT. GRANTS	23	705,679,326.00	705,679,326.00
562,969,037.00				
	<b>2 UNIVERSITY OWN SOURCES</b>			
75,574,162.00	2.1. FEES FROM STUDENTS	24	110,481,360.00	
60,013,442.01	2.2. NON-FEE RECEIPTS	25	49,620,243.00	
1,200,264.00	2.3. MISCELLANEOUS	26	1,584,691.00	
136,787,868.01				161,686,294.00
136,787,868.01				
111,494,868.00	<b>3 DODL SOURCES OF INCOME</b>	DODL/2		95,085,040.00
811,251,773.01	<b>TOTAL INCOME (A)</b>			962,450,660.00

  
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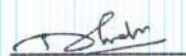
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**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March,2014**

**LIABILITIES**

HEADS	SCHEDULE	BALANCE AS ON 31.03.2013	ADDITION	BALANCE AS ON 31.03.2014
		₹	₹	₹
1 GENERAL FUND (Including Net Surplus Transferred from Income & Expenditure A/C)	1	976,220,528		1,225,272,418
2 DEVELOPMENT FUND INCLUDING UGC PL	2	127,468,713	8,443,227	135,911,940
3 DEVELOPMENT CORPUS FUND	3	136,108,309	37,800,471	173,908,780
4 RETIREMENT BENEFIT FUNDS:				
4.1 PENSION FUND	4A	97,948,662	11,798,842	109,747,504
4.2 LEAVE SALARY & GRATUITY FUND	4B	62,207,063	14,966,219	77,173,282
		<b>160,155,725</b>	<b>26,765,061</b>	<b>186,920,786</b>
5 PROVIDENT FUND	5	262,501,209	(6,389,237)	256,111,972
6 ENDOWMENT FUND	6	2,099,108	332,780	2,431,888
7 DODL FUND	DODL/1	248,401,306		327,102,678
8 SCHEME & PROJECT FUND	7A & 7B	131,911,736	(14,563,703)	87,848,033
9 REFUNDABLE DEPOSIT :				
9.1 Contractors' Security Deposits	8A	4,073,251	1,192,656	5,265,907
9.2 Caution Deposits	8B	2,117,124	53,000	2,170,124
		<b>649,103,734</b>	<b>(19,374,505)</b>	<b>680,930,601</b>
10 CURRENT LIABILITIES:				
10.1 Provision for expenditure	9A	3,496,634	1,673,651	5,170,285
10.2 Statutory liabilities	9B	413,896	1,923,609	2,337,505
10.3 Liability for undischursed payments		35,485	(16,935)	18,550
		<b>3,946,015</b>	<b>3,580,325</b>	<b>7,526,340</b>
<b>TOTAL LIABILITIES:</b>		<b>2,053,003,024</b>	<b>57,214,579</b>	<b>2,410,470,865</b>

  
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**UNIVERSITY OF KALYANI**  
**BALANCE SHEET as at 31st March, 2014**

**ASSETS:**

	HEADS	SCHEDULE	BALANCE AS ON	ADDITION	BALANCE AS ON
			31.03.2013		31.03.2014
			₹	₹	₹
<b>1</b>	<b>FIXED ASSETS</b>				
	<b>[After charging Depreciation Sch-19]</b>				
	1.1 BUILDINGS	10	181,172,215	16,739,688	188,853,258
	1.2 ROADS	11	16,931,674	-	15,238,506
	1.3 ELECTRICAL INSTALLATION	12	16,878,413	3,156,904	18,347,470
	1.4 VEHICLES	13	67,253	2,153,272	2,213,799
	1.5 LABORATORY EQUIPMENT	14	36,686,791	6,742,404	37,926,165
	1.6 CLASS/ OFFICE EQUIPMENT	15	15,269,171	894,779	13,873,550
	1.7 COMPUTER & SOFTWARE	16	3,196,539	691,531	3,410,371
	1.8 FURNITURE & FITTINGS	17	12,845,343	1,946,343	13,507,129
	1.9 E - Journal	18	10,819,420	2,669,952	9,361,604
	1.10 BOOKS & JOURNALS	18	35,277,503	2,455,682	35,969,291
			<b>329,146,322</b>	<b>37,650,655</b>	<b>338,701,143</b>
<b>2</b>	<b>DODL ASSETS</b>	DODL/1	3,217,075		3,376,312
<b>3</b>	<b>INVESTMENTS AGAINST ENDOWMENT FUND</b>	6	1,718,187	125,000	1,843,187
<b>4</b>	<b>LOANS &amp; ADVANCES:</b>				
	4.1 Advances	21	13,264,270	1,388,938	14,653,208
	4.2 DODL Advance	DODL/6	191,000		540,000
			<b>18,390,532</b>	<b>1,513,938</b>	<b>20,412,707</b>
<b>5</b>	<b>BANK BALANCES</b>		1,705,430,685		2,051,338,465
<b>6</b>	<b>CASH BALANCES</b>	22	35,485	-	18,550
	<b>TOTAL ASSETS:</b>		<b>2,053,003,024</b>	<b>39,164,593</b>	<b>2,410,470,865</b>


  
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**UNIVERSITY OF KALYANI**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR - 2013-14**

During	EXPENDITURE	Schedule	Amount	Amount
2012-13	REVENUE EXPENDITURES		₹	₹
123,402,997.00	1 PAY, ALLOWANCE & FELLOWSHIP	27	130,216,883.00	
59,516,908.00	1.1 FACULTY OF SCIENCE		71,280,463.00	
25,051,388.00	1.2 FACULTY OF ARTS & COMM		23,121,253.00	
10,044,593.00	1.3 FACULTY OF EDUCATION		18,590,803.00	
95,428,871.00	1.4 FACULTY OF ENGG. TECH. MAGT.		89,271,110.00	
11,631,109.00	1.5 GENERAL ADMINISTRATION		10,588,944.00	
1,611,274.00	1.6 DETS		2,039,836.00	
9,419,166.00	1.7 FINE ARTS		10,721,390.00	
-	1.8 MESS WORKERS		37,328,196.00	
-	1.8 ARREAR SALARY			
352,106,306.00				393,138,878.00
5,074,778.00	2 CONTINGENCIES	28	4,763,878.00	
1,277,476.00	2.1 FACULTY OF SCIENCE		1,424,682.00	
1,115,176.00	2.2 FACULTY OF ARTS & COMM		1,178,949.00	
1,378,787.00	2.3 FACULTY OF EDUCATION		1,378,292.00	
12,045,159.00	2.4 FACULTY OF ENGG. TECH. MAGT.		12,193,992.00	
849,837.00	2.5 GENERAL ADMINISTRATION		1,788,094.00	
395,950.00	2.6 DETS & RDM & CIRM		-	
35,592,590.00	2.7 STUDENT AFFAIRS & PLACEMENT		36,711,235.00	
57,729,751.00	2.8 COMMON FACILITIES & Fine Arts		59,440,122.00	
16,522,210.00			18,095,521.00	
74,251,961.00	2.9 MISCELLANEOUS	29		77,535,843.00
110,799,016.00	3 TRANSFER TO DIFFERENT FUNDS			
6,000,000.00	3.1 PENSION FUND A/C.	4A	142,113,430.00	
116,799,016.00	3.2 LEAVE SALARY & GRAT.A/C.	4B		142,113,430.00
34,083,845.00	4 EXAMINATION EXPENSES	30	37,162,301.00	
1,633,127.00	5 RESEARCH GRANT (TEACHER/OFFICER RS)	32	1,590,686.00	
1,704,038.00	6 EXP. FROM UGC UNASSIGNED GRANT	33	1,559,709.00	
22,221,633.00	7 DODL EXPENDITURE	DODL/2	16,001,941.00	56,314,637.00
602,799,926.00	TOTAL EXPENDITURE (B)			669,102,588.00
208,451,847.01	8 SURPLUS OF INCOME OVER EXPENDITURE (A-B)			293,348,072.00
1,596,635.00	9 Less: Provision for liabilities for expenses agt.unadjusted advance during 2013-14	34		2,589,580.00
23,061,465.00	10 DEPRECIATION CHARGED	19		28,095,834.00
183,793,747.01	NET SURPLUS TRANSFERRED TO BALANCE SHEET			262,662,658.00

  
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### Report of Green Audit

Recently University initiated a plan for eco-audit. The departments of Botany and Environmental Science have undertaken the green audit of the campus. Accordingly ambient air quality monitoring and drinking water quality assessment of University campus including hostels were monitoring periodically. Initiative has been taken for energy audit, water audit, solid waste management and manpower efficiency empowerment. Various departments and NSS programme of the University were involved in this scheme. For campus greening though afforestation attempts was made during 2014-15 and 2015-16 with active participation of students, teachers, officers and other staff of the University. Periodic discussion on environmental awareness at all level were also attempted.

The University of Kalyani also developed an 'Ecopark' in 2011 with the support from Department of Environment, Govt. of West Bengal.

The major trees, shrubs and herbs in the University campus and surrounding are surveyed and a check list is provided below.

#### Initiatives taken by the university to make the campus eco-friendly

##### ❖ Energy conservation:

The University is making conscious effort for energy conservation. The monthly electric consumption in the University campus is 170.336MWh. All the stake holders are being educated to switch off electric points whenever the utility of the point is not absolutely necessary. Everyone is advised to switch off the computer when not in use. The university is switching over to low power consuming lamps like CFL lamps and LED lamps as far as practicable. The University has also planned to use renewable source of energy especially solar energy for some of its lighting and heating requirements and plans to switch to solar energy sources in a big way in near future. The Ecopark already lighted with solar energy.

##### ❖ Water harvesting

The University also has making conscious effort for water conservation. The monthly water consumption was 1156587 US Gallon. There are some rainwater harvesting and natural recharge of groundwater ponds established in the university campus.

##### ❖ Hazardous Waste management:

For hazardous waste management the University has taken the following steps

A 20 ft deep well (soak pit) is being dug to dump all hazardous waste material in it with standard specification. The outlet of the basins and waste pipes of the laboratories which use radioactive materials is directly connected to the well

##### ❖ e- Waste management:

The e-waste is minimized through

- (i) The policy of buy-back system the University is following with the suppliers.
- (ii) If possible upgrading the system before opting for replacement or dumping for the buyback system

#### Biodiversity

##### PLANT BIODIVERSITY

Plants give the pleasure of sight. There are lots of trees in Kalyani University campus which shows a variety of colourful flowers. There are a lot of evergreen to non evergreen trees which -provides edible fruits like Mango, Guava, Litchi, Jamun to trees with beautiful flowers like the Gulmohar, Radhachura, Krishnachura, Shiuli. There are a variety of herbs and shrubs found in Kalyani township. They flower in different seasons and thus one or the other species is in its blooming stage. Species of various families like Graminae, Euhorbiaceae, Malvaceae, Solanaceae, Compositae are present in the local area. There are

trees which provide useful wood for the construction purpose. There are many trees, which has medicinal value like Eucalyptus, Neem. Overall there is a rich biodiversity of trees in the campus and surrounding.

**List of trees found in Kalyani University & its Surrounding**

SL. NO.	SCIENTIFIC NAME	COMMON NAME	FAMILY
1.	<i>Delonix regia</i>	Gulmohar	Fabaceae
2.	<i>Tenninalia arjuna</i>	Arjuna	Combretaceae
3.	<i>Ficus indica</i>	Banyan	Moraceae
4.	<i>Ficus religiosa</i>	Pipal	Moraceae
5.	<i>Saralal indica</i>	Ashoka	
6.	<i>Tectona grandis</i>	Teak	Verbenaceae
7.	<i>Anthocephalus laldamba</i>	Kadamb	Compositae
8.	<i>Alstonia scholaris</i>	Chattim	Apocynaceae
9.	<i>Peltophorum ferugenum</i>	Basanti	
10.	<i>Sterculia foetida</i>	Kath badam	Sterculiaceae
11.	<i>Thespesia populnea</i>	Parash pipul	Malvaceae
12.	<i>Zizyphus jujuba</i>	Kul	Rutaceae
13.	<i>Mangifera indica</i>	Aam	Anonaceae
14.	<i>Cocos nucifera</i>	Coconut	Palmae
15.	<i>Ltchi chinensis</i>	Litchi	Sapindaceae
16.	<i>Samania saman</i>	Shirish	
17.	<i>Syzgium cumini</i>	Jamun	Myrtaceae
18.	<i>Leucaena leucocephala</i>	Subabool	Leuminoseae
19.	<i>Artocarpus integrifolia</i>	Kathal	Moraceae
20.	<i>Areca catechu</i>	Supari	Arecaceae
21.	<i>Phoenix sylvestris</i>	Khejur	Palmae
22.	<i>Annona sativa</i>	Aata	Annonaceae
23.	<i>Pongamia pinata</i>	Karoncha	
24.	<i>Tamarind indica</i>	Imli	
25.	<i>Psidium guava</i>	Guava	Myrtaceae
26.	<i>Dillonia indica</i>	Chalta	
27.	<i>Acacia nilotica</i>	Babul	Lep;uminoseae
28.	<i>Albizia lebbeck</i>	Shirish	Lep;uminoseae
29.	<i>Artabotrys speciosa</i>	Gup;uli	
30.	<i>Averrhoa carambola</i>	Kamranga	
31.	<i>Madhulal indica</i>	Mahua	Sapotaceae
32.	<i>Bombax malabaricum</i>	Shimool	
33.	<i>Anacardium sp.</i>	Kaju badam	Anacardiaceae
34.	<i>Tectona grandis</i>	Shep;un	Verbenaceae

SL. NO.	SCIENTIFIC NAME	COMMON NAME	FAMILY
35.	<i>Syzygium cumini</i>	Kala jaam	Myrtaceae
36.	<i>Sterculia mehogani</i>	Mehogani	Meliaceae
37.	<i>Roystonea regia</i>	Royal Palm	Palmae
38.	<i>Spondias mangifera</i>	Hog Pulm	Anacardiaceae
39.	<i>Bauhinia purpureae</i>	Kanchan	Fabaceae
40.	<i>Cassuarina equisetifolia</i>	Jhau	
41.	<i>Citrus maxima</i>	Chakrota	Rutaceae
42.	<i>Citrus limon</i>	Lemon	Rutaceae
43.	<i>Corchorus olitorius</i>	Jute (bitter)	Tiliaceae
44.	<i>Corchorus capsularis</i>	Jute (sweet)	Tiliaceae
45.	<i>Dalbura sissoo</i>	Sissoo	Fabaceae
46.	<i>Dalbergia latifolia</i>		Fabaceae
47.	<i>Delonix regia</i>	Krishnachura	Fabaceae
48.	<i>Duranta plumieri</i>	Duranta	Verbenaceae
49.	<i>Eucalyptus citridora</i>	Eucalyptus	Myrtaceae
50.	<i>Melia azadirach</i>	Ghora neem	Meliaceae
51.	<i>Nephlium longana</i>	Rambutan	Sapindaceae
52.	<i>Murraya paniculata</i>	Kamini	Rutaceae
53.	<i>Ficus religiosa</i>	Asatya	Moraceae
54.	<i>Acacia auriculiformis</i>	Shona jhuri	Mimosaceae
55.	<i>Polyalthia longifolia</i>	Devdaru	Annonaceae
56.	<i>Phoenix sflvestris</i>	Khejur	Palmae
57.	<i>Azadirachta indica</i>	Neem	Meliaceae
58.	<i>Mimusops elengi</i>	Bakul	Sapotaceae
59.	<i>Peltophorum pterocarpum</i>	Radhachura	Fabaceae
60.	<i>Streblus asper</i>	Sheura	Moraceae
61.	<i>Borassus flabellifer</i>	Taal Palm	Palmae
62.	<i>Lagerstroemia speciosa</i>	Jarul	L ythraceae
63.	<i>Nyctanthes arbortritis</i>	Shefali	Oleaceae
64.	<i>Tamarindus indica</i>	T etul	Fabaceae
65.	<i>Festuceae sp.</i>	Poa	Poaceae
66.	<i>Butea monosperma</i>	Palash	Papilionaceae
67.	<i>Anacardium occidentate</i>	Cashewnut	Anacardiaceae
68.	<i>Annona reticulata</i>	Sharifa	Annonaceae
69.	<i>Averrhoa carambola</i>		Oxalidaceae
70.	<i>Annona squamosa</i>	Sitaphal	Annonaceae



**List of the Shrubs found in Kalyani University & its Surrounding**

Sl. No.	SCIENTIFIC NAME	FAMILY
1.	<i>Zizyphus oenoplia</i>	Rutaceae
2.	<i>Zizyphus mauritiana</i>	Rutaceae
3.	<i>Acacia farnesiana</i>	Mimosaceae
4.	<i>Caesalpinia crista</i>	Mimosaceae
5.	<i>Mimosa rubicaulis</i>	Mimosaceae
6.	<i>Acacia torta</i>	Mimosaceae
7.	<i>Pavetta indica</i>	
8.	<i>Capparis sepiaria</i>	Capparidaceae
9.	<i>Capparis zeylanica</i>	Capparidaceae
10.	<i>Flacoutia indica</i>	
11.	<i>Allophylus serratus</i>	
12.	<i>Polyalthia suberosa</i>	
13.	<i>Abutilon indicum</i>	Malvaceae
14.	<i>Abutilon hirtum</i>	Malvaceae
15.	<i>Hibiscus vitifolius</i>	Malvaceae
16.	<i>Urena lobata</i>	Malvaceae
17.	<i>H.mutabilis</i>	Malvaceae
18.	<i>H.populneus</i>	Malvaceae
19.	<i>H.cannabinus</i>	Malvaceae
20.	<i>H.subdariffa</i>	Malvaceae
21.	<i>Triumfetta rhomboidea</i>	Schrophulariaceae
22.	<i>Glycosmis pentaphylla</i>	Rutaceae
23.	<i>Calotropis procera</i>	Asclepiadaceae
24.	<i>Eupatorium odoratum</i>	Asteraceae
25.	<i>Argemone mexicana</i>	Papaveraceae
26.	<i>Lantana camara</i>	Verbenaceae

**List of the Herbs found in Kalyani University & its Surrounding**

SL. NO.	SCIENTIFIC NAME	COMMON NAME	FAMILY
1.	<i>Vernonia cineraria</i>	Kukshim	Compositae
2.	<i>Tridax procumbens</i>	Tridaksha	Compositae
3.	<i>Acalypha indica</i>	Muktajhuri	Euphorbiaceae
4.	<i>Cyanodon dactylon</i>	Durba ghash	Graminae
5.	<i>Croton</i>	Bantulsi	Euphorbiaceae

SL. NO.	SCIENTIFIC NAME	COMMON NAME	FAMILY
6.	<i>bonplandianum</i>		
7.	<i>Costus speceosus</i>	Keu	Zingibaraceae
8.	<i>Cucurbita maxima</i>	Kumra	Cucurbitaceae
9.	<i>Mimosa pudica</i>	Lajja bati	Mimosaceae
10.	<i>Duranta ripens</i>	Duranta	Labiatae
11.	<i>Vinca rosea</i>	Nayantara	Apocynaceae
12.	<i>Commelina benghalensis</i>		
13.	<i>Sida acutilifolia</i>	Berela	Malvaceae
14.	<i>Sida rhomboidea</i>	Lal berela	Malvaceae
15.	<i>Sida cordifolia</i>	Berela	Malvaceae
16.	<i>Solanum nigrum</i>	Kakmachi	Solanaceae
17.	<i>Solanum xanthocarpum</i>	Kantikari	Solanaceae
18.	<i>Solanum torvum</i>	Tilabegun	Solanaceae
19.	<i>Ipomoea</i>	Tarulata	Convolvulaceae
20.	<i>Cassia sophera</i>	Kalkasunda	Caesalpineaceae
21.	<i>Cassia tara</i>		Caesalpineaceae
22.	<i>Vandelia crustacea</i>		Schrophulariaceae
23.	<i>Abroma augusta</i>	Ulatkambal	
24.	<i>Abrus precatorius</i>	Kunch	Rutaceae
25.	<i>Argemone mexicana</i>	Shial kanta	Euphorbiaceae
26.	<i>Bonnaya flabellifer</i>	Bhuinim	
27.	<i>Panicum maximum</i>	Grass	Poaceae

### ANIMAL DIVERSITY

#### List of mammals from Kalyani University & its Surrounding

SPECIES	HABIT AT	HABIT
<i>1. Suncun murinus caeruleus</i> (Shaw)	Borrowing in habit or lie in drains in towns and villages around human habitations	1. Cripsicular; 2. Feeds mainly on insects, cockroaches, etc. 3. 2 to 3 youngs are born per litter in nests of straw and dead leaves
<i>2. Rousettus leschenau/ti leschenaulty</i> (Dcsmurcst)	Roost in manmade tunnels and rooms in old houses	1. Nocturnal; 2. Fruit eating and mainly invades fruit trees in gardens and orchards for taking fruit juice; 3. Breeds between November and March giving 1 young per litter
<i>3. Pteropus giganteus giganteus</i> (Brunnick)	Roosts on large trees like tamrind, banyan or bamboo brakes in colonies	Time of emergence - at dusk; and invades fruit trees, mainly in orchards; and eats fruit thought the night; returns t~ roost at dawn and throughout the day, stay there with their heads down; breeds single young in early February



SPECIES	HABIT AT	HABIT
4. <i>Cynopterus sphinx sphinx</i> (Vahl)	Roosts singly or in small groups in trees like palm, banyan, etc.; in old ruins and also in tree hollows	Nocturnal; invades fruit trees and return to roost with ripe fruit which they eat during night; breeds probably in March and September, giving 1 young per litter.
5. <i>Pipistrellus coromondra coromondra</i> (Gray)	Hollow bamboos, below bark of trees, and also roosts in the roof of houses.	Emerges out from roost at dusk, feeds on insect (mainly small flies) throughout night and gets back at den at dawn; it probably has a breeding season 1 after May and another after September giving 2 youngs per litter.
6. <i>Scotophilus kuhlii kuhlii</i> (Leach)	Outhouses, sheds, temples, hollows and trunks of trees	More than one emergence times but first emergence in evening; devours flying insects and white ants; breeds for a couple of months from April
7. <i>Presbytis entellus entellus</i> (Dufresne)	Arboreal preferring large trees, as well as temples and other similar areas	Diurnal in habit; vegetarian. takes fruits, flowers, buds, shoots and leaves. They are out for feeding in the early morning and rests in shady areas during day time, again continues feeding during evening and returns to their roost. They breed every two years and mainly during April-May
8. <i>Canis aureus indicus</i> (Hodgson)	Adapted to live in every environment and most commonly seen in village areas	Nocturnal, comes out at dusk and retires at dawn. Food consists of karyon, animals, birds and fruits, it also preys on domestic animals and poultry. Breeds throughout the year. Litter size is usually four
9. <i>Vulpes bengalensis</i> (Shaw)	Redides in self dugged burrows among scrubs, commonly near cultivations	Nocturnal in habit and feeds on termites crabs, reptiles, field rats, etc. and also fruits like <i>Zizyphus</i> sp. (Ber). About 4 youngs per litter and born between February and April.
10. <i>Viverricula indica indica</i> (Desmarest)	Lives in burrows among grasses or under bushes and prefers to stay near villages, towns, taking shelter in drains and out-houses	Nocturnal, preying on rats, squirrels, small birds, lizards, insects and anything which it can catch and kill. Often involves poultry
11. <i>Paradoxurus hermaphroditus</i>	Lives on long bushy trees, and also prefers palm trees. In thickly populated areas often takes shelter in roofs of houses or drains	Nocturnal, during day lies curled up among the branches or in the hole in trunks. Feeds mainly on birds, small mammals, as well as fruits. It is a prominent poultry thief and raid plantations. Youngs are born in all seasons giving 3-4 calves per litter

## REPTILES

Reptilian fauna of Kalyani University and its surrounding include Tokay, Northern House Gecko, Brook's House Gecko, Yellow Monitor, Water Monitor, Common Garden Lizard, Common Skink, Checker Keel-Back, Rat Snake, Indian Cobra, Russell's Viper, etc. of these Yellow Monitor and the Water monitor are considered to be highly endangered and are protected under the Schedule - I of Wildlife (Protection) Act of India, 1972. The Rat Snake, Indian Cobra and the Russell's Viper are also highly endangered species and they are also given protection under the Wildlife (Protection) Act, but they are included in the Schedule – II of the act.

**Checklist of reptiles from Kalyani University & its Surrounding**

Species	Common English Name	Occurrence	Wildlife Schedule
<b>Order - Squamata</b>			
1. <i>Gecko gecko</i> (linn.)	Tucktoo	Common	IV
2. <i>Hemidactylus brooki</i> (Gray)	Brook's gecko	Common	IV
3. <i>Hemidactylus flaviviridis</i> (Ruppell)	Northern house gecko	Common	IV
4. <i>calotes oersicolor</i> (Daudin)	Common Garden lizard	Common	IV
5. <i>Mabuya craniata</i> (Schneider) common or Brahminy skink	Common or Brahminy skink	Common	IV
6. <i>Mabuya macularia</i> (Blyth)	Little skink	Common	IV
7. <i>Varanus flavescens</i> (Gray)	Yellow Monitor	Rare	I
8. <i>varanus saluator</i> (Laurenti)	Water Monitor	Rare	I
9. <i>Typhlops acutus</i> (Dummeril & Bibron)	Beakedworm or Blink Snake	Common	IV
10. <i>Lycodon aulicus</i> (Linn.)	Common wolf snake	Common	IV
11. <i>Ptyas mucosus</i> (Linn.)	Dhaman or Common Rat Snake	Common	II
12. <i>Xenochrophis piscator</i> (Schneider)	Checkered Keel back	Common	IV
13. <i>Bungarus caeruleus</i> (Schneider)	Common Indian Krait	Common	IV
14. <i>Bungarus fasciatus</i> (Schneider)	Banded Krait	Common	IV
15. <i>Naja naja Kkoutha</i> (Linn.)	Indian Cobra	Common	II
16. <i>Vipera russelli</i> (Shaw)	Russell's Viper	Common	II

**AMPHIBIA:**

Common Indian Toad is probably the most abundant species of amphibian that is encountered in this region, followed by the Indian Bull Frog. The other members include Marbled toad, Skipping Frog, Paddy Field Frog, Pond Frog, Tree Frog, etc. of these, Pond Frog is probably one of the rarest of all the frogs that are encountered.

**Checklist of Amphibia in Kalyani University & its Surrounding**

SPECIES	Common English Name	Status	Wildlife Schedule
<b>FAMILY - BUFONIDAE</b>			
1. <i>Bufo melanostriatus</i> (Schneider)	Common Indian Toad	Common	IV
2. <i>Bufo stomaticus</i> (Lutken)	Marbled Toad	Common	IV

SPECIES	Common English Name	Status	Wildlife Schedule
<b>FAMILY - RANIDAE</b>			
4. <i>Rana cynopJzlyctis</i> (Schneider)	Skipping Frog	Common	
5. <i>Rana Jzexadactyla</i> (Lesson)	Pond frog	Rare	VI
6. <i>Rana limnocJzaris</i> (Boie)	Paddy field frog	Common	VI
7. <i>Rana tigrina</i> (Daudin)	Indian bull frog	Common	VI
<b>FAMILY- RHACOPHORIDAE</b>			
8. <i>Polypedates maculatus</i>	Tree frog	Common	VI

## BIRDS

Bird that are usually encountered in the Kalyani University campus includes Little Grebe, Little Cormorant, Pond Heron, Cattle Egret, Cotton Teal, Bronzewinged Jacana, Shikra, Pariah Kite, Indian Roller, Black Headed Oriole, Common Sandpiper, White-breasted Waterhen, Common Moorhen, etc., which adds to the colour and the diversity of birds in the region. The variety is enhanced with the influx of the migratory species during the winters. Majority of these migratory species includes the ducks like - Pintail, Garganey, Comb Duck, etc., followed by the warblers and flycatchers. There have been some unconfirmed records of birds like - the Ruddy Shelduck, Baikal Teal, etc., from the Kalyani Jheel. However, both these birds are highly elusive and since there are no confirmed reports of these species they have been omitted from the list provided here.

Though Wildlife (Protection) Act provides these species security against any threat, most of these birds are included in the Schedule -IV. However, White-backed Vulture (*Gyps bengalensis*) has been included in the schedule-I of the Act recently.

A tentative list of the birds and there behaviour has been provided in the following tables.

### Checklist of birds in Kalyani University & its Surrounding

SI. No.	Scientific Name	Common Name
	<b>PODICIPITIDAE</b>	
1	<i>Tachybaptus ruficollis</i>	Little Grebe
	<b>PHALACROCORACIDAE</b>	
2	<i>Phalacrocorax carbo</i>	Cormorant
3	<i>Phalacrocorax niger</i>	Little Cormorant
4	<i>Anhinga rufa</i>	Darter
	<b>ARDEIDAE</b>	
5	<i>Ardea cinerea</i> (Linn.)	Grey Heron
6	<i>Ardea purpurea</i> (Meyea)	Purple Heron
7	<i>Ardeola grayii</i> (Sykes)	Pond Heron
8	<i>Bubulcus ibis coromandra</i> (Boedaert)	Cattle egret
9	<i>Ardea alba</i> (Linn.)	Large Egret
10	<i>Egretta intermedia</i>	Intermediate or Smaller Egret

Sl. No.	Scientific Name	Common Name
11	<i>Egretta garzetta</i> (Linn.)	Little egret
12	<i>Ixobrychus sinensis</i> (Gmelin)	Yellow Bittern
	ANATIDAE	
13	<i>Dendrocygna javanica</i> (Horse field)	Lesser Whistling Teal
14	<i>Anas acuta</i> (Linn.)	Pintail
15	<i>Anas querquedula</i> (Linn.)	Garganey
16	<i>Nettapus coromandelianus</i>	Cotton Teal
17	<i>Sarkidiornis melanotos</i>	Comb Duck
	ACCIPITRIDAE	
18	<i>Milvus migrans</i> (Boddaert)	Pariah Kite
19	<i>Accipiter badius</i> (Temminck)	Shikra
20	<i>Gyps bengalensis</i> (Gmelin)	Indian Whitebacked Vulture
	RALLIDAE	Whitebreasted water hen
21	<i>Amaurornis phoenicurus</i> (Boddaert)	
22	<i>Gallinula chloropus</i>	Moorhen
23	<i>Porphyrio porphyrio poliocephala</i> (Latham)	Purple Moorhen
24	<i>Fulica atra</i> (Linn.)	Coot
	JACANIDAE	
25	<i>Hydrophasianus chirurgus</i> (Scopoli)	Pheasant Tailed Jacana
26	<i>Metopidius indicus</i> (Latham)	Bronze-winged Jacana
	CHARADRIIDAE	
27	<i>Tringa ochropus</i>	Green Sandpiper
28	<i>Tringa hypoleucos</i> Linn.	Common Sandpiper
29	<i>Gallinaxo stenura</i> (Bonaparte)	Pintail Snipe
	COLUMBIDAE	
30	<i>Columba livia</i> (Strickland)	Blue Rock Pigeon
31	<i>Streptopelia decaocto</i> (Frivoldszky)	Indian Ringed Dove
32	<i>Streptopelia tranquebarica</i> (Temminck)	Red Turtle Dove
33	<i>Streptopelia chinensis</i> (Gmelin)	Spotted Dove
	PSITTACIDAE	
34	<i>Psittacula eupatria</i> (Linn.)	Alexandrine Parakeet
35	<i>Psittacula krameri</i> (Neumann)	Roseringed Parakeet
36	<i>Psittacula C. Janocephala</i>	Blossom Headed Parakeet
	CUCULIDAE	
37	<i>Clamator jacobinus</i> (Boddaert)	Pied Crested Cuckoo
38	<i>Cuculus varius</i> (Vaul)	Common hawk cuckoo
39	<i>Cacomantis merulinus</i>	Rufousbellied Plaintive Cuckoo
40	<i>Eudynamis scolopacea</i> (Linn.)	Koel
41	<i>Centropus sinensis</i> (Stephens)	Coucal
	STREGIDAE	
42	<i>Tyto alba</i> (Scopoli)	Barn Owl

SI. No.	Scientific Name	Common Name
43	<i>Athene brama</i> (Temminck)	Spotted Owlet
	<b>APODIDAE</b>	
44	<i>Apus affinis</i> (J. E. Gray)	House Swift
45	<i>Cypsiurus parvus</i> (J. E. Gray)	Palm Swift
	<b>ALCEDINIDAE</b>	
46	<i>Alecdo atthis</i> (Linn.)	Common Kingfisher
47	<i>Pelargopsis capensis</i> (Linn.)	Stork billed Kingfisher
48	<i>Hylacon smyrensis</i> Justa(Boddaert)	White-breasted Kingfisher
	<b>MEROPIDAE</b>	
49	<i>Merops orientalis</i> (Latham)	Green Bee-eater
50	<i>Coracias benhalensis</i> (Linn.)	Indian Roller
	<b>CAPITONIDAE</b>	
51	<i>Megalaima lineata</i> (Vieillot)	Lineated Barbet
52	<i>Megalaima asiatic</i> (Latham)	Bluethroated Barbet
53	<i>Megalaima haemacephala indica</i> (Latham)	Crimson- breasted Barbet
	<b>PICIDAE</b>	
54	<i>Dinopium benghalensis</i> (Linn.)	Lesser Golden- backed Woodpecker
55	<i>Picoides macsi</i>	Fulvous- breasted pied Woodpecker
	<b>ALAUDIDEA</b>	
56	<i>Mirafr assamica</i> (Horse field)	Bushlark
	<b>HIRUNDINIDAE</b>	
57	<i>Hirundo rustica</i> Linn.	Swallow
	<b>LANIIDAE</b>	
58	<i>Lanius schach tircolor</i> (Hodgson)	Black headed Shrike
	<b>ORIOIDAE</b>	
59	<i>Oriolus xanthornus</i> (Linn.)	Black-headed oriole
	<b>DICRURIDAE</b>	
60	<i>Dicrurus adsimilis macrocercus</i> (Vieillot)	Black Drongo
	<b>ARTAMIDAE</b>	
61	<i>Artamus Juscus</i> (Vieillot)	Ashy Swallow Shrike
	<b>STURNIDAE</b>	
62	<i>Stunus malabaricus</i>	Greyheaded Myna
63	<i>Sturnus contra</i> (Linn.)	Pied Myna
64	<i>Acredotheres Juscus</i> (Wagler)	Jungl Myna
65	<i>Acredotheres tristis</i> (Linn.)	Common Myna
	<b>CORVIDAE</b>	
66	<i>Oendrocitta vagabunda</i> (Latham)	Indian Treepie
67	<i>Corvus splendens</i> (Vieillot)	House Crow
68	<i>Corvus macrorhynchos</i> (Lesson)	Jungle Crow
	<b>IRENIDAE</b>	

SI. No.	Scientific Name	Common Name
69	<i>Aegithina tiphia</i> (Linn.)	Common Iora
	PYCNONOTIDAE	
70	<i>Pycnonotus cafer</i> (Linn.)	Red-vented bulbul
	MUCICAPIDAE	
71	<i>Turdoides striatus</i>	Jungle Babbler
72	<i>Muscicapa parva</i> Bechstein	Redbreasted flycatcher
73	<i>Cisticola juncidis cursitaus</i> (Franklin)	Streaked Fantail Warbler
74	<i>Orthotomus sutories patia</i> (Hodson)	Tailor bird
75	<i>Acrocephalus dumetorum</i> (Blyth)	Blyth's Reed Warbler
76	<i>Copsychus saularis</i> (Linn.)	Magpie Robin
	MOTACILLIDAE	
77	<i>Anthus nonaesusleudiae rufulus</i> (Vieillot)	Paddy Field Pipit
78	<i>Motacilla alba dukhunensis</i> (Sykes)	Pied Wagtail
	DICAETIDAE	
79	<i>Dicaeum erythrorhynchos</i> (Latham)	Pale-billed Flower pecker
	NECTARINIIDAE	
80	<i>Nectarinia zeylollia sola</i> (Vieillot)	Purple-rumped Sunbird
81	<i>Nectarinia asiatica</i>	Purple Sunbird
	PLOCEIDAE	
82	<i>Passer domesticus</i> (Jardine & Selby)	House Sparrow
83	<i>Lonchura punctulata</i> (Linn.)	Spotted Munia

### Plankton Diversity

#### PHYTOPLANKTONS

The organisms that live in pond water are part of the invisible world that nourishes the ecosystem. Plankton consists of two components: phytoplankton and the zooplankton. Phytoplankton include photosynthetic floaters in the water column. Since phytoplankton require light they are usually found only where light can penetrate. Usually light can penetrate throughout the water column in a small pond, but this depends on the turbidity of the ponds. Zooplankton includes representatives from protist as well as many invertebrates. Many invertebrates like arthropods and mollusks have a larval stage which is spent as plankton.

Together these microorganisms are important because they provide food for many of the larger organisms of the pond. Zooplankton consume other zooplankton and phytoplankton. Fish consume phytoplankton and zooplankton.

Microscopic algae or phytoplankton come in a variety of shapes and in varied colors due to their different photosynthetic pigments. Algae can be unicellular and microscopic or colonial forming plate-like colonies, thread-like filaments, net-like tubes, or hollow balls

