



## Yearly Status Report - 2017-2018

### Part A

#### Data of the Institution

Part A	
<b>Data of the Institution</b>	
<b>1. Name of the Institution</b>	KALYANI UNIVERSITY
Name of the head of the Institution	Prof. Manas Kumar Sanyal
Designation	Vice Chancellor
Does the Institution function from own campus	Yes
Phone no/Alternate Phone no.	+913325828750
Mobile no.	9434451520
Registered Email	vc_kalyani@klyuniv.ac.in
Alternate Email	iqac@klyuniv.ac.in
Address	University of Kalyani, Kalyani-741235, Nadia, West Bengal
City/Town	Kalyani
State/UT	West Bengal
Pincode	741235

<b>2. Institutional Status</b>					
University		State			
Type of Institution		Co-education			
Location		Semi-urban			
Financial Status		state			
Name of the IQAC co-ordinator/Director		Prof. Nanda Kumar Ghosh			
Phone no/Alternate Phone no.		+913325828750			
Mobile no.		9748827493			
Registered Email		iqac@klyuniv.ac.in			
Alternate Email		nkg@klyuniv.ac.in			
<b>3. Website Address</b>					
Web-link of the AQAR: (Previous Academic Year)		<a href="https://klyuniv.ac.in/wp-content/uploads/2022/iqac/AOARStatusReport/AOAR_2016-17_Report.pdf">https://klyuniv.ac.in/wp-content/uploads/2022/iqac/AOARStatusReport/AOAR_2016-17_Report.pdf</a>			
<b>4. Whether Academic Calendar prepared during the year</b>		Yes			
if yes,whether it is uploaded in the institutional website: Weblink :		<a href="https://klyuniv.ac.in/academic/academic-calendar/pg-calendar/">https://klyuniv.ac.in/academic/academic-calendar/pg-calendar/</a>			
<b>5. Accrediation Details</b>					
Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	Three Star	70	2001	21-May-2001	20-May-2006
2	B	2.67	2008	16-Sep-2008	15-Sep-2013
3	A	3.12	2016	16-Dec-2016	15-Dec-2021
<b>6. Date of Establishment of IQAC</b>			23-Oct-2008		
<b>7. Internal Quality Assurance System</b>					

**Quality initiatives by IQAC during the year for promoting quality culture**

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Application Verification	03-Jul-2017 29	2500
Feedback data collection & analysis	07-May-2018 20	1500
Discussion on UGC Regulations	03-Jul-2017 7	225
Awareness workshop on NAAC evaluation	26-Apr-2018 2	40
Academic Administrative Audit (AAA)	12-Mar-2018 10	225
<a href="#">View File</a>		

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Economics	Special Assistance Programme (SAP), DRSII	UGC	2018 1825	9200000
Chemistry	Special Assistance Programme (SAP), DRS-II	UGC	2013 1825	7000000
Physics	FIST	DST	2013 1825	26900000
Zoology	Special Assistance Programme (SAP), DRS-I	UGC	2012 1825	6000000
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**9. Whether composition of IQAC as per latest NAAC guidelines:**

Yes

Upload latest notification of formation of IQAC

[View File](#)

**10. Number of IQAC meetings held during the year :**

3

The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website

Yes

Upload the minutes of meeting and action taken report	<a href="#">View File</a>
<b>11. Whether IQAC received funding from any of the funding agency to support its activities during the year?</b>	No

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

Application verification subcommittee under IQAC has scrutinized 2500 (approx.) applications following 100Point Roster and UGC Regulation for direct recruitment to teaching posts of different subjects.

Feedbacks received from Students, Parents, and Alumni have been analyzed to promote quality enhancement for teaching-learning and evaluation method, infrastructural development.

Various aspects of the UGC Regulations have been discussed with the Faculty members for better implementation of the Regulations.

Two awareness Workshops (March 24, April 26 of 2018) have been organized with the Heads of academic departments and Centers regarding quality enhancement as prescribed by NAAC.

Academic Administrative Audit (AAA) has been conducted by the internal AAA committee during March 2018.

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

Plan of Action	Achievements/Outcomes
<ul style="list-style-type: none"> <li>To finalise the 100point Roster of Faculties for recruitment of teachers against existing vacancies on priority basis to maintain proper cadre ratio.</li> </ul>	100point Roster of Faculties has been prepared and sent for approval.
<ul style="list-style-type: none"> <li>Steps to be taken for total e-governance in the areas of Administration, Academic, Admission and Migration etc.</li> </ul>	Online project submission, Admission is partially complete. For others, implementation is in process.
<ul style="list-style-type: none"> <li>As suggested by NAAC Peer team, initiative is to be taken to set up technology business incubation centre to promote entrepreneurship starts up.</li> </ul>	Implementation is in progress.
<ul style="list-style-type: none"> <li>Organizing workshops on regular basis in collaboration with various departments of the University.</li> </ul>	Organised regular workshops in different departments of the University.
<ul style="list-style-type: none"> <li>To expedite promotion under CAS for teachers.</li> </ul>	IQAC has screened 51 applications for promotion under CAS

• PPP model for resource mobilisation is to be explored.

PPP model introduced in Canteen & Security arrangement.

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14. Whether AQAR was placed before statutory body ?

Yes

Name of Statutory Body

Meeting Date

Executive Council

26-Mar-2022

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?

No

16. Whether institutional data submitted to AISHE:

Yes

Year of Submission

2018

Date of Submission

27-Feb-2018

17. Does the Institution have Management Information System ?

Yes

If yes, give a brief description and a list of modules currently operational (maximum 500 words)

The institution has the following management information systems: 1. In the Central library, computerised book accession, lending and collection of books have been introduced. Checking of plagiarism for research papers and thesis are done in the central library. 2. Meeting notifications are shown in the University website. Government orders Circulars are displayed through online mode only. 3. Meetings of the Court, Executive Council, Faculty Councils Board of Studies are conducted regularly. IQAC meeting, meeting for preparation of AQAR are held periodically. In the departments, Departmental Committee (DC) and Departmental Research Committee (DRC), Postgraduate Board of Studies (PGBOS) are conducted regularly. 4. Admission system is fully automated. Starting from admission notification, number of vacancies in different departments, eligibility criteria, merit list preparation, counselling and admission are done through computerised admission portal. Syllabi of different subjects, M.Phil., Ph.D., D.Sc. D. Litt.

Regulations are shown in the University website. 5. Salary Bill preparation, disbursement of salaries and pensions to employees, tender for purchase of equipment and daytoday works of accounts section are performed online. 6. Examination and evaluation system is transparent and following UGC, State Government guidelines. Regular meetings of UG PG Board of Studies are arranged. In house spot evaluation for quick publication of results are done. All the records related to examinations evaluations are maintained in the Controllers section. Grievances of the students queries are properly addressed. 7. Equivalence Committee resolves the issues of equivalence of degrees as and when necessary. 8. All research programmes are carried out in accordance with the UGC Regulation guidelines. Research proposal are evaluated by an expert committee with the Dean of the respective faculty as Chairman. One University Research Scholar is allotted to every faculty member each and the selection is made through a meeting of the DRC of the respective department. The progress report of all research fellows is examined by a committee formed by University authority.

## Part B

### CRITERION I – CURRICULAR ASPECTS

#### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
MA	English, Geography, Library Sc, Philosophy, Rural Studies	PG	03/07/2017
MSc	Botany, Ecological Studies,	PG	05/07/2017
MCom	Commerce	PG	05/07/2017
BA	Sociology, Philosophy	UG	04/07/2017
PhD or DPhil	Botany	PhD	07/07/2017
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
MSc	Botany	Nil	BOSCT3.1 Forensic Botany, BOSCT3.2 Industrial Microbiology, BOSCT3.3 Medical Mycology BOSCT3.4 Economic Botany and Pharmacognosy, BOSCT3.5 Immunology BOSCT4.2 Intellectual Property Rights, BOSCT4.3	08/12/2017
MSc	Biochemistry Biophysics	Nil	SEC-1, SEC-2 Project work (Bio chem. & Bio Phy.)	08/12/2017
MSc	Mol. Biology & Biotechnology	Nil	Hands on training programme in Dehydration technology of Flowers for the Tribal women of Nadia District (MBBT)	08/12/2017
MA	Economics	Nil	Financial Economics (3.4 and 4.3)	08/12/2017
MLibISc	Lib. & Inf. Sc.	Nil	Resource Description and Content Designation (Theory) - LIS-CC-204 Resource Description and Content Designation (Practice) - LIS-CC-205	08/12/2017
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## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
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MPhil	Philosophy	04/06/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
Nil	NA	Nil

### 1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
NA	Nil	0
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
MA	Internship Programme (Students) of 6 weeks in different organizations as per there 4th semester syllabus (Dept. of Rural Development Studies)	12
MA	Internship Programme of Pratichi Trust, Viswabharati, Shantiniketan WB	47
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### 1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	No
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
<p>The feedback statement has been obtained from students in each semester through questionnaire form and they have expressed their view as four grading answer patterns. Their responses have been discussed in departmental meeting and accordingly improvised in teaching-learning process. Some feedbacks are obtained through an online portal. The percentage scores under different categories are computed automatically. The obtained scores and specific comments are shared among the faculty members for taking corrective measures. A meeting is arranged every year with the students to listen to their problems and suggestions. Department takes necessary measure the address them with the help of the authority.</p>



**CRITERION II – TEACHING- LEARNING AND EVALUATION****2.1 – Student Enrolment and Profile**

## 2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
MA	MRS, Geo, Socio, Folklore, Sans, Beng, Eng, Hindi, Hist, Pol.sc, Philo, Economics, Edn	959	3595	794
MSc	Micro, MBBT, Env. Management, Env. Sc., Integrated Stat, Physio, Phy., Chem., Zoo., Bot., Math., Stat., Bio-Phy., Bio-Chem.	592	5961	498
MCom	Commerce	115	84	64
MEd	Teacher Training	50	147	50
MBA	Business Administration	40	60	33
MCA	Computer Application	30	25	25
BTech	Computer Science, Communication Engineering	28	102	21
Mtech	IT, EIE	62	44	44
MFA	Fine Arts	21	66	21

[View File](#)**2.2 – Catering to Student Diversity**

## 2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2017	44	1614	7	172	3

**2.3 – Teaching - Learning Process**

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Number of smart classrooms	E-resources and techniques used
179	175	12	37	22	4
<a href="#">View File of ICT Tools and resources</a>					
<a href="#">View File of E-resources and techniques used</a>					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Different Academic Departments in the University take recourse to different mentoring methods for their students which commonly include the emphasis on enhancement of the institutional ambience while creating homely atmosphere as the students learn their concerned subjects. Some Departments undertake guided research projects in the final semester of the PG Course – notable among them is the Botany Department. Also, students are encouraged to give seminars as part of internal assessment. Also, in some Departments students are grouped under the mentorship of the individual faculty. A Students' Mentoring Shell (SMS) consisting of all the faculty members of the Department of Molecular Biology and Bio-technology has been created. Each faculty is the guardian or mentor of 5-6 students and he or she usually interacts frequently with the student as they accustomed to a new environment and academic schedule of the post-graduation course. The SMS perform the following activities throughout the year: The other mentoring activities include encouragement to students in participation of workshops, seminars and like. The students are continuously motivated as they can go to the higher studies after cracking all India Research entrance test like GATE, NET, SET etc. The courses offered by the Departments would help the aspirant graduates in getting a broad-based knowledge about theoretical and applied aspects of different disciplines of their subjects in general and its frontier areas in particular. It is aimed at offering high quality training and generating expertise in the frontier areas of the subjects, and to provide appreciative atmosphere to the bright young talents. The courses in some Science Departments include inter-alia, collaborative efforts with different institutes, industries, clinical laboratories and other agencies. The Department of Microbiology has already developed its infrastructure with some sophisticated equipment like, fermenter, UV- vis spectrophotometer, PCR/RT PCR thermocycler, ELISA Reader, BOD chamber, cold centrifuge, Gel-documentation, Phase contrast microscope, Fluorescence microscope, Atomic Absorption Spectrometer, Low-volume spectrophotometer, Ion-chromatography, Anaerobic-microbial culture chamber etc. The interdisciplinary nature of our research is reflected in our faculty members, who have shown their collaborative approaches with the other laboratories both at National and International levels (University of Calcutta, Bose Institute, IISER-Kolkata, Bidhan Chandra Krishi Viswavidyalaya, Central Inland Fishery Research Institute, Tripura University, WB State University, Nagoya University, Chittaranjan National Cancer Institute). Physical education is a teacher's training course which requires continuous monitoring of the student's activity both in the classrooms as well as in the ground also. Students are continuously monitored in two times at the ground and lab practical classes. Besides those students who are participating in all India intervarsity tournaments there are separate coaches and instructors for catering their sports skills and monitoring of sports performances. Apart from the above, in most Departments of the Faculty of Arts and Commerce special care is taken for poor students by offering them mentoring advices on case-by-case basis.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1658	179	1:9

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
303	179	126	0	161

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

Year of Award	Name of full time teachers receiving awards from state level, national level,	Designation	Name of the award, fellowship, received from Government or recognized

	international level		bodies
2017	Dr. Angshuman Bagchi	Assistant Professor	Promising Young Faculty" from University of Kalyani
2018	Dr. Neera Sen Sarkar	Assistant Professor	Distinguished Alumni from Maitreyi College, University of Delhi
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## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year-end examination	Date of declaration of results of semester-end/ year- end examination
MA	All PG	1st Sem 3rd Sem	22/01/2018	06/03/2018
MCom	Commerce	1st Sem 3rd Sem	22/01/2018	06/03/2018
MSc	All PG	1st Sem 3rd Sem	22/01/2018	06/03/2018
MA	All PG	2nd Sem 4th Sem	14/06/2018	26/07/2018
MCom	Commerce	2nd Sem 4th Sem	14/06/2018	26/07/2018
MSc	All PG	2nd Sem 4th Sem	14/06/2018	26/07/2018
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
9	28720	0.031

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

<https://www.klyuniv.ac.in/>

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
UG	BA	Hons & Gen	27199	24655	90.64
UG	BSc	Hons & Gen	3984	3732	93.67

UG	BCom	Hons Gen	695	607	87.33
PG	MA	All PG	864	798	92.36
PG	MSc	All PG	462	439	95.02
PG	MCom	Commerce	52	50	96.15
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

<https://klyuniv.ac.in/wp-content/uploads/2022/igac/sssreport/SSS2017-18.pdf>

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. Angshuman Bagchi	Promising Young Faculty	01/11/2018	University of Kalyani
National	Dr. Neera Sen Sarkar	Beam Time Project	24/04/2018	Inter University Accelerator Centre (IUAC), UGC, New Delhi
National	Professor Goutam Paul	Raj KristoDutt Memorial Award 2017-18	16/03/2018	Indian Science Congress Association (ISCA)
International	Prof Ashish K Panigrahi	Special Achievement Award	12/02/2018	International Foundation for Environment and Ecology
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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
CSIR-JRF	730	CSIR
UGC-JRF, RJNF, MANF	730	UGC
Post-Doctoral Fellowship	730	DEST-SERB
Dr. D. S. Kothari Post-Doctoral Fellowship	730	UGC
DST INSPIRE Fellowship	1825	DST
SVMCM	1825	Govt. of West Bengal
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### 3.2 – Resource Mobilization for Research

#### 3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Minor Projects	1825	Council of Scientific and Industrial Research (CSIR), GoI UGC DBT, GoI, DST, GoI, DST-INSPIRE DST-NANOMISSION British Council IUAC DAE-CSR Mumbai SERB-DST ICAR DBT, GoWB DST, GoWB Department of Environment, GoWB Higher Education, Science	138482140	76090090
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### 3.3 – Innovation Ecosystem

#### 3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Advancement in Green Technology for controlling and Managing Current Environmental Pollution	Ecological Studies	22/03/2018
Workshop on “Caring for all life under the sun” to Celebration of World Ozone Day celebration	Department of Environmental Science ENVIS Centre	15/09/2017
World Wetland Day at Ghospara Swaraswati Trust Estate Vidhyapith, Kalyani,	Department of Environmental Science ENVIS Centre	22/02/2018
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#### 3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
2nd Regional Science and Technology Congress, 2017 (Southern Region)	Research Scholar: Suvendu Dey	University of Kalyani jointly with Department of Higher Education, Science and Technology and	14/12/2017	Outstanding research paper award

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NA	NA	NA	NA	NA	Nil
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**3.4 – Research Publications and Awards**

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Bengali	12
Biochemistry Biophysics	10
Botany	9
Business Administration	2
Chemistry	7
Commerce	3
Computer Sc. Engineering	8
Ecological Studies	1
Economics	1
Education	18
Engineering Technological Studies	5
English	7
Environmental Science	7
Folklore	3
Geography	1
History	8
Library Inf. Science	5
Math	18
Microbiology	5
Physical Education	15
Physics	9
Physiology	2
Political Science	4
Sociology	4
Zoology	8

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
National	Physiology	8	3.95

International	Chemistry	66	2.1
<a href="#">View File</a>			

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Bengali	56
Folklore	11
Env.Sc	7
Com Sc Engineering	39
Business administration	18
English	8
Botany	6
History	6
Math	6
Rural studies	5
<a href="#">View File</a>	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Synthesis of surface active gold nano layer fabricated iron oxide nano composite. A. Bandyopadhyay, S. Chatterjee, K. Sarkar	Published	1180/Kol/2011	04/12/2018
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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
On ?- para Kenmotsu 3-manifolds with Ricci solitons	Sarkar A., Paul A.K., Mondal R.	Balkan Journal of Geometry and its Applications	2018	3	Department of Mathematics, University of Kalyani	3
Design of 4 nm MOSFET and its applications	Chakraborty R., Mandal J.K.	Microsystem Technologies	2018	2	Department of CSE, University of Kalyani	2
Chiral copper-	Halder M., Bhanja	New Journal of	2018	12	Department	12

salen complex grafted over functionalized mesoporous silica as an efficient catalyst for asymmetric Henry reactions and synthesis of the potent drug (R)-isoproterenol	P., Islam M.M., Bhaumik A., Islam S.M.	Chemistry			of Chemistry, University of Kalyani	
Tunneling current of an AlGaAs/GaAs multiple quantum well solar cell considering a trapezoidal potential barrier	Chatterjee A., Biswas S., Sinha A.	International Journal of Renewable Energy Research	2018	1	Department of Physics, University of Kalyani	1
Evolutionary algorithms to minimize interaction energy between drug molecule and target protein in streptococcus	Chatterjee A., Roy U.K., Halder D.	Lecture Notes in Electrical Engineering	2018	0	DETS, University of Kalyani	0
Neutrosophic goal geometric programming problem based on geometric mean method and	Islam S., Kundu T.	Neutrosophic Sets and Systems	2018	2	Department of Chemistry, University of Kalyani	2



its application						
Hydrazinopyrimidine derived novel Al <sub>3</sub> chemosensor: Molecular logic gate and biological applications	Das B., Dey S., Maiti G.P., Bhat tajarjee A., Dhara A., Jana A.	New Journal of Chemistry	2018	41	Department of Ecological Studies and ICEE, University of Kalyani	41
On logarithmic fixed-charge transportation problem	Acharya D., Basu M., Das A.	International Journal of Mathematics in Operational Research	2018	1	Department of Mathematics, University of Kalyani	1

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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
On $\alpha$ -para Kenmotsu 3-manifolds with Ricci solitons	Sarkar A., Paul A.K., Mondal R.	Balkan Journal of Geometry and its Applications	2018	24	3	Department of Mathematics, University of Kalyani
Design of 4 nm MOSFET and its applications	Chakraborty R., Mandal J.K.	Microsystem Technologies	2018	24	2	Department of CSE, University of Kalyani
Chiral copper-salen complex grafted over functionalized mesoporous silica as an efficient catalyst for asymmetric Henry reactions	Halder M., Bhanja P., Islam M.M., Bhaumik A., Islam S.M.	New Journal of Chemistry	2018	24	12	Department of Chemistry, University of Kalyani

and synthesis of the potent drug (R)-isoproterenol						
Tunneling current of an AlGaAs/GaAs multiple quantum well solar cell considering a trapezoidal potential barrier	Chatterjee A., Biswas S., Sinha A.	International Journal of Renewable Energy Research	2018	24	1	Department of Physics, University of Kalyani
Evolutionary algorithms to minimize interaction energy between drug molecule and target protein in streptococcus	Chatterjee A., Roy U.K., Haldar D.	Lecture Notes in Electrical Engineering	2018	24	0	DETS, University of Kalyani
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### 3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	127	186	71	72
Presented papers	135	189	64	13
Resource persons	57	34	29	8
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### 3.5 – Consultancy

#### 3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultant(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Botany	Qualitative Evaluation of Mangroves in Kulpi - part of	Bengal Shipyards Ltd., ApeejaySurrendra Enterprise, Apeejay	42750

	Environmental Impact Assessment	House, Park Street, Kolkata	
Botany	Corporate-Social-Responsibility Project	EPCOS India Pvt. Ltd., KalyaniSilpanchal, Kalyani, West Bengal	25000
Department of Library and Information Science	Capacity building programme for public library personnel under National Mission for Libraries during November 13-17, 2017	Ministry of Culture, Govt. of India	483534
Lifelong Learning Extension	Skill Development Training Continuing Education Training	CTRD, ISGP, BRAIPRD, Kalyani Shine India, KM Individual	1002164
Department of Physiology	Fatigue Analysis of Heavy Earth Moving Machineries Mining Operators	NIMH, Nagpur	30000
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### 3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
NA	NA	NA	0	0
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### 3.6 – Extension Activities

#### 3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities
Certificate Course on 'Social Service: Blood Donor Motivation'	NSS and Association of Voluntary Blood Donors	21	3202
<a href="#">View File</a>			

#### 3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
West Bengal State National Service Scheme Awards	Kalyani University Got the First Award From the Govt. of West Bengal, Belur,	Government Of West Bengal	5400

	Howrah		
West Bengal State National Service Scheme Awards	Prof. Sukhen Biswas Awarded as a Best Programme Coordinator in West Bengal By the Govt. of West Bengal, Belur, Howrah	Government Of West Bengal	5400
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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activities	Number of students participated in such activities
RD Camp	State NSS Cell	State RD Camp	1	12
NSS	Regional Director, NSS	National Integration Camp	1	12
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### 3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Collaborative Research, Dept. of Chemistry	NCCS, Pune Univ. of Averio, Portugal Chung Yuan Univ, Taiwan	Nil	365
<a href="#">View File</a>			

3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Project work	Sem-II course work	IISER, Kolkata, Calcutta University, IICB, Bose Institute, JNM Hospital, Kalyani	02/01/2018	30/06/2018	Semester II students of Dept. of Biochemistry & Biophysics
<a href="#">View File</a>					

3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Department of Regenerative Medicine and Translational Sciences, Calcutta School of Tropical Medicine, Kolkata	31/07/2017	Joint PhD guidance, Collaboration in Research, sharing of resources	2
Bose Institute, Kolkata	25/01/2018	Joint PhD guidance, Collaboration in Research, sharing of resources	10
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## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

### 4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
137	102

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Campus Area	Existing
Class rooms	Existing
Laboratories	Existing
Seminar Halls	Existing
Classrooms with LCD facilities	Existing
Seminar halls with ICT facilities	Existing
<a href="#">View File</a>	

### 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
SOUL 2.0	Partially	2.0	2005

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
Text Books	153276	Nill	970	1762307	154246	1762307
Reference Books	7307	Nill	52	255158	7359	255158
Journals	8045	Nill	91	431271	8136	431271

e- Journals	5000	10164274	Null	Null	5000	10164274
Digital Database	Null	Null	4	712335	4	712335
CD & Video	143	Null	Null	Null	143	Null

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
NA	NA	NA	Null

No file uploaded.

#### 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/ GBPS)	Others
Existing	1052	24	912	1	1	312	35	100	0
Added	200	2	100	1	0	25	0	0	0
Total	1252	26	1012	2	1	337	35	100	0

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

2 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
NA	<a href="#">NA</a>

#### 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurred on maintenance of physical facilities
202	157	363	263

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

Laboratory: The Departments of Science Engineering faculties have two categories of laboratories: PG Practical lab for students Research Lab for teachers research scholars. All the laboratories are maintained by the department staff and financed by the finance department of the University. At the time of purchasing new equipments through central purchase committee by

inviting tender (E-tender) as the case may be. Initially, a MoU is signed between the University and the company supplying the instrument for repairing purposes. Instruments procured from project funds are maintained repaired by the overhead funds. Laboratory instruments are used by the students and scholars of the department. The instruments in the research laboratories are utilized by the research students of the department and research students from other departments of the University by requisition. Library: The University owns a Central library as well as a reference library in the department. The collection in the central library comprises of books and journal for PG students, teachers and research scholars, e-journals, Monographs and Articles, Ph.D. theses and M.Phil. Dissertations. The financial assistance as granted by UGC and State Govt are utilized to purchase books and e-journals and other contingent materials. All the activities of the central library including lending and collecting of all the documents are discharged by the staff of the central library. Computers: Computers are maintained centrally by the Centre for Information Resource Management (CIRM) of the University. Technicians of the CIRM install repairs and maintain the LAN system of the University. Purchase of new computers is through central Purchase Committee. Development Officer of the University monitors all purchase of computers instruments. All stakeholder of the University utilize these computers for official, teaching research purpose. Sports Complex: University has a sports council with the Hon'ble Vice Chancellor as President and Head of the Department of Physical Education as Secretary. Other members are from various departments of the University. Sports Council maintains the sports ground, gymnasium etc. Funds are provided through budget allocation of the University.

[https://klyuniv.ac.in/wp-content/uploads/2022/igac/Procedures\\_and\\_Policies\\_to\\_maintain\\_support\\_facilities.pdf](https://klyuniv.ac.in/wp-content/uploads/2022/igac/Procedures_and_Policies_to_maintain_support_facilities.pdf)

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

### 5.1 – Student Support

#### 5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Merit cum means	225	652000
Financial Support from Other Sources			
a) National	National	2361	43858000
b)International	0	0	0

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#### 5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Computer Skill Development	01/07/2017	750	NA
Yoga Training	01/07/2017	125	NA
NET/SET Coaching	01/07/2017	85	NA
Personal Counseling and Mentoring at the Departmental Level	01/07/2017	2000	NA

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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passed in the comp. exam	Number of students placed
2017	Career guidance through SC/ST Coaching Centre	72	72	55	38
2017	Career guidance through NET/SL:ATE Coaching Centre	163	163	80	24
2018	Career guidance made for public examination like WBCS etc.	52	52	25	7
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
13	11	30

**5.2 – Student Progression**

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Name of organizations visited	Number of students participated	Number of students placed	Name of organizations visited	Number of students participated	Number of students placed
02	22	6	CronJ, Edutainment Softwan Indian Oil Corporation ITC Infotech	3	58
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into	Programme graduated from	Department graduated from	Name of institution joined	Name of programme admitted to
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	higher education				
2017	298	Master of Science, Master of Arts, Master of Commerce, MCA, M Tech, MBA, Master of Library and Information Science, B.P .ED/M.P.ED, B..ED/M.ED	Different PG departments under University of Kalyani	BHU, IIT, ISI, NIT, University, S N Bose, NCL, NITTE, IISWBM, NICED, IICB	M.Phil./ Ph.D. Project Associate (NDLI), Post Graduation Diploma in Water Sanitation and Hygiene
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	145
SET	60
GATE	53
GRE	1
TOFEL	1
Any Other	40
No file uploaded.	

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

Activity	Level	Number of Participants
Academic Festival (Sociology)	University Level	44
Song-Dance (LLE)	State Level (Tripura)	1
Fresher's welcome, farewell programme, teachers' day, Rabindra Jayanti etc. (Rural Development)	Department, University level	25
<a href="#">View File</a>		

### 5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2017	Bronze Medal	National	Nil	Nil	Nil	Suravi Biswas
2017	Bronze Medal	National	Nil	Nil	Nil	Football Team (Men's')

20 members

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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Student representatives in the following committees: 1. Sports Council 2. Library Committee 3. Student Welfare Committee 4. Hostel Admission Committee 5. Hostel Prefects, etc.

#### 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The University has no Central Alumni association, but, the departments like Physics, Chemistry, Zoology, Botany etc. have registered Alumni Associations. These Alumni Associations take active role in their departments during Reunion of present and past students, teachers and scholars. Members of the Association hold meeting, interact with the present students scholars, teachers and give valuable suggestions for up gradation of Academic Research activities. They participate in the Cultural programme of the departments. They also contribute financially to the events. In some departments, Prizes and Medals are awarded by the Alumni Association. The Alumni Associations also organise Seminars on various issues linked with the interests of the departments. They also guide scholars students for further academic and job-oriented progress. They also gift books to the departmental libraries.

5.4.2 – No. of registered Alumni:

1211

5.4.3 – Alumni contribution during the year (in Rupees) :

310000

5.4.4 – Meetings/activities organized by Alumni Association :

29

### CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

#### 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

1. Data Management Committee: Besides NAAC evaluation, the University undergoes through several other important accreditation processes like AISHE, NIRF etc. UGC team visit to the University periodically to review the progress of implementation of UGC directives in higher education and utilization of fund received from UGC. In view of these activities, IQAC has made the Data Management Committee with assigned task of data collection, data compilation, and data analysis. Teachers of some departments are involved in these aspects so that authentic and validated information can be submitted. Moreover, data of the University can be used internally to finalize policies and infrastructural development, to undertake quality initiatives for teaching and research. 2. Transparency in Research Publication and Evaluation: To follow transparency in the research, publications thesis work, University of Kalyani has taken various measures. The Central Library has the facility to use TURN IT IN Urkund software to assure that there will be no redundancy or unless required no similarity in the text that will appear in the publications. This facility is also extended to teachers, scholars students to every department for a first

round checking by the beneficiaries.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	<p>The new CBCS syllabi have been introduced in the affiliated colleges of the University after thorough discussion in the Under Graduate Board of Studies (UGBOS). Post graduate courses at the departments of the University are updated and revised by the Post Graduate Board of Studies of the departments and are approved in the Faculty Council (PG) meeting of the respective faculties after thorough discussion and deliberation. While designing the new syllabi of different subjects, UGC policies and directives on the issue have been given proper importance.</p>
Teaching and Learning	<p>Most of the teachers in Science faculty use the facilities of ICT enabled class rooms with overhead projectors for better demonstration of examples given in the classes and students can easily understand the subject under discussion. Students also write project papers, complete assignments. Regular internal assessment examinations are held. In the Geography department, academic tours for practical purposes are done periodically. Regular seminars are held in the departments for the students. Tutorial classes are held for weaker students as a means of doubt clearing. In visual Arts department, regular Art Exhibition, Art Camp are organised as a part of their academic performance. In the Folklore department, Fieldwork-cum-Workshop has been organized annually for the students and research scholars.</p>
Examination and Evaluation	<p>As per the University Regulation, during every academic year the departments conduct at least one internal assessment examination one end semester examination. The students are also given assignments. The evaluation is based on written examination, internal assessment, project papers including viva-voce examination. CGPA system of grading is followed</p>

<p>Research and Development</p>	<p>The University has formulated a Ph.D. Regulation as per UGC guidelines. Most of the research students get either UGC/CSIR fellowship or from the University under University Research Scholar (URS) scheme. Also, some of the research students are awarded INSPIRE fellowship. A section of the students works as project fellow under UGC/CSIR/DST major projects. All Ph.D. students have to qualify at the six-month duration Ph.D. course work. Research Methodology is compulsorily taught to all students of the department by the faculties of that department. Students are advised to publish research papers related to their Ph.D. work in peer reviewed journals as prescribed in the UGC Care List of Journals. They are also encouraged to participate in national/international conferences. Participation in at least two seminars/conferences is a precondition to submit the thesis.</p>
<p>Library, ICT and Physical Infrastructure / Instrumentation</p>	<p>In all the departments of the University, there exist small reference libraries along with University Central Library. Central library has been providing remote access for several database/research which are accessible to all faculty and students. Research students are provided free computer access to various journals in the departments.</p>
<p>Human Resource Management</p>	<p>To get maximum work output, employees of the University are posted at various posts depending on their specialization, experience and functional requirements of the University.</p>
<p>Industry Interaction / Collaboration</p>	<p>The departments of Engineering and Technology, Business Administration and Management, and Computer Science and Engineering regularly interact with industrial personnel. A lot of departments have several collaborative initiatives with various other Universities Institutions. Regular Industry visits, Guest Lectures are carried out.</p>
<p>Admission of Students</p>	<p>Hybrid model of admission process are followed in the University of Kalyani w.e.f. the academic session 2016-17. Advertisement congaing details of qualifications and fee structure are</p>

widely published in the University website and national newspapers. Syllabus for different subjects is displayed in the University website. Application forms can be downloaded from the websites. This has reduced time consumption and manual workload. However, application forms are received and verified manually to prepare the merit list. Following State Govt. Guidelines, 60 seats are reserved for the home university students and 40 seats are for the students of other Universities. For students of other Universities, an entrance examination is held and a merit list is prepared based on entrance examination marks plus final examination marks. The whole process is transparent and status of all applicants is displayed on the University website.

6.2.2 – Implementation of e-governance in areas of operations:

E-governance area	Details
<p>Planning and Development</p>	<ul style="list-style-type: none"> <li>• All academic masters plans (both long-term and short-term) consistent with the Universitys mission and vision are carried out under the supervision of the IQAC. The academic departments and centers of the University are well connected to IQAC through a partial e-governance system.</li> <li>• All activities based on the curricula are governed according to the academic calendar under the supervision of the Faculty Council of the University through partial e-governance.</li> <li>• Full faculty information, funding information, faculty publications and other planning and development information is available on the Universitys website. The Website is continually updated to facilitate various planning and development information and ongoing activities.</li> <li>• The project proposals are submitted to funding agencies by online mode only. Receiving grants and maintaining funds are done electronically through PFMS and managed by Tally software.</li> </ul>
<p>Administration</p>	<ul style="list-style-type: none"> <li>• All the administrative sections run under the supervision of the Registrar, University of Kalyani through a partial e-governance system. The establishment section of the University manages the recruitment of teaching/non-teaching staffs and maintains the service</li> </ul>

records of individual staffs such as seniority, retirement dates, leave statements and confidential reports through the system. Annual appraisals and DSIR certificate database are also maintained and updated regularly by the system. • Promotion of teaching faculty through career advancement scheme (CAS) are managed and implemented through the system under the supervision of the IQAC. • Promotion of University officers (CAS) and regular promotion of non-teaching staffs are managed and implemented through the system under the supervision of the Registrar. • The system maintains a data base for university research fellows, project fellows and individual research fellows. Also the database for PG students, beneficiaries of different Govt. study grants, is maintained by the system. • All the routine functions of the library are automated by means of integrated library software, SOUL, developed and distributed by UGC INFLIBNET.

Finance and Accounts

• The finance and accounts department are well equipped with online accounts management system to manage the regular financial activities such as pay rolls, staff salaries, retirement benefits, pay slips etc. • Salaries and all other remunerations of routine activities are made through online portals directly to the beneficiaries' account. The fellowship for research scholars are also made similarly. • The research project grants received from different funding agencies such as SERB, UGC, CSIR, DST-FIST, DST PURSE, RUSA etc. are managed through PFMS and Tally software, which keeps the process updated and takes care of timely payments to the vendors. • The tendering process is administered online, either through the Universitys website or through the governments electronic tendering portal, to ensure transparency.

Student Admission and Support

• All PG and Ph.D. admissions are processed centrally online from application to final admission. Usually, after advertising in newspapers and the website, students are required to create their own online registered profile on University admission portal. A comprehensive step-

by-step guide for the whole process is available on the portal for student convenience. After online application the testimonials, category and other relevant information for individual students are verified by the individual departments. The admission has been made either through merit or through admission test/counseling as decided by the faculty council of the University for different courses. • For Ph. D. admission, an online admission test has been conducted for non-NET/GATE applicants, which follows an interview before final selection. • All the payment for the admission has been made through the online portal only.

**Examination**

The examination cell runs under the Controller of the examination. It operates through a computerised data management system to manage the student life cycle, starting from registration to result publication.

**6.3 – Faculty Empowerment Strategies**

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2017	Shri Pathikrit Bandopadhyay	Summer Programme of Nanophotonics held during	Bar Ilan University, Israel	41250
2017	Dr. Tarun Kumar Mondal	27th International Conference on the History of Cartography	Cultural Centre of the Minas Tennis Club, Belo Horizonte, Brazil	66000
2017	Dr. Avijit Sarkar	20th International Conference of International Academy of Physical Sciences	Osmania University, Hyderabad	9000

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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development	Title of the administrative training	From date	To Date	Number of participants (Teaching)	Number of participants (non-teaching)
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	programme organised for teaching staff	programme organised for non-teaching staff			staff)	staff)
2018	Two Week Workshop on use of ICT in Teaching Learning Process	Nil	27/08/2018	10/09/2018	39	Nil
2018	Two Days Workshop on Smart Publishing	Nil	17/01/2018	18/01/2018	41	Nil
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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Refresher Course (Geography)	1	19/06/2017	10/07/2017	22
Refresher Course (Physics)	1	04/07/2017	24/07/2017	21
Refresher Course (MBBT)	1	23/10/2017	13/11/2017	22
Refresher Course (Central Library)	1	27/12/2017	17/01/2018	22
Refresher Course (Botany)	1	06/11/2017	21/11/2017	16
Orientation Programme	1	01/08/2017	30/08/2017	30
Orientation Programme	1	01/11/2017	28/11/2017	28
Orientation Programme	1	04/12/2017	31/12/2017	28
Refresher Course (Rural Development Studies)	1	23/10/2017	18/11/2017	27
Refresher Course (Political Science)	1	03/03/2018	23/03/2018	21
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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
0	0	0	0

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
<p>Medical facility in the campus (Health center with one Doctor, two Pharmacists and two female nurses on contractual basis), Banking facility, FDP, Festival Advance, PF Loan, Loan from Employees cooperative, Travel Grants for academic purposes, daily bus services. Internet and Wi-Fi facilities in all the departments and centers. Bank and post office facilities within the Administrative Building.</p>	<p>Loan from Employees cooperative, Festival advance, PF Loan, Medical facility in the campus (Health centre with one Doctor, two Pharmacists and two female nurses on contractual basis), daily bus services. Bank and post office facilities within the Administrative Building. Free internet and Wi-Fi connectivity.</p>	<p>Medical facility in the campus (Health centre with one Doctor, two Pharmacists and two female nurses on contractual basis), daily bus services, Student Medical aid Fund, Concession on Fees, Girls Boys Hostels, Internet access free of cost, endowments from stakeholders, Students aid fund. Scholarships on the basis of merit, and merit-cum-means. Railway travel concessions are provided with the aid of Indian Railways.</p>

**6.4 – Financial Management and Resource Mobilization**

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Institution conducts internal and external financial audits regularly. In the University of Kalyani, there is a system of pre-audit of the bills and vouchers before release of the pay order. So far as internal audit and internal control are concerned, the University follows that after taking kind approval from the Vice Chancellor, money sanction (M.S.) order is issued by the Finance Department mentioning the head of expenditure, purpose of the expenditure amount keeping in view the budgetary head and provision. Bill (audit) section of the Finance Dept. checks all types of expenditure bills and vouchers with purchase order and other supporting documents and forward it to the Audit Accounts officer for his verification and issue pay order after thorough checking. Each entry in the cash book is verified by the Finance Officer at the time of signing the cheques. Moreover, Annual Accounts of the University is audited by the Office of the Principal Accountant General (General Social Sector Audit), Indian Audit Accounts Department, West Bengal Circle as statutory auditor.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
<p>1. Trilochan Jana and Champa Jana Memorial Award 2. Late Anath Nath Dutta and Late Shefali Dutta Award</p>	350000	<p>1. Awarding two medals, one for topper in Zoology, one for topper in Environmental Studies. 2. Awarding medal to the</p>

topper in Bio-Chemistry  
and Bio-Physics..

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6.4.3 – Total corpus fund generated

77820929

### 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	No	NA	Yes	Faculty Council
Administrative	No	NA	Yes	Executive Council

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

NA

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

1. Before counselling and admission, parents go to the respective departments discuss the infrastructural facilities, teaching-learning evaluation process, hostel facilities with the Head of the department and supporting staff. 2. Head of the department provide regular feedback to the parents about the student's progress, learning abilities, physical mental health. On the other hand, suggestions of the parents are considered with utmost importance. 3. Most of the departments interact with the parents on regular basis (online/offline) regarding performances of the students and the academic atmosphere of the department. Their suggestions are given utmost importance for further development of the teaching-learning evaluation system.

6.5.4 – Development programmes for support staff (at least three)

1. Green Skill Development Programme for support staff of ENVIS and Biotechnology department. 2. In the Centre for Information Resource Management (CIRM), a section of the support staff of the University are given capability enhancement training in the use of Computers and Internets for Office and Administrative works. 3. A section of the technical staff are given training periodically on the use of sophisticated instruments and its maintenance.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

Post Accreditation initiative(s) (mention at least three): (i) The process of recruitment of teachers in different faculties has been initiated. (ii) Focused outreach programme with adoption of more villages has been undertaken. (iii) Steps has been taken to cover more areas under e-governance.

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b) Participation in NIRF	Yes
c) ISO certification	No
d) NBA or any other quality audit	No

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Application verification subcommittee under the purview of IQAC has screened various applications for direct recruitments.	Nil	02/01/2018	30/06/2018	2500
2017	Feedback collected data from students, Parents, and Alumni and analysed to promote quality enhancement for teaching-learning evaluation, infrastructure.	Nil	03/07/2017	29/12/2017	3000
2018	Workshops have been organized to aware the Heads of Academic departments Centres regarding quality enhancement as prescribed by NAAC.	24/03/2018	24/03/2018	24/03/2018	40
2018	Academic Administrative Audit (AAA) conducted by the internal AAA Committee.	Nil	01/03/2018	30/03/2018	0

[View File](#)

## CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

### 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Self Defence Training Programme as Practical Paper in M.Ed. in Physical Education	01/03/2018	31/03/2018	30	70
Workshop on Women Rights	08/03/2018	08/03/2018	200	300

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Periodical Seminars/Workshops are organized Centrally as well as department wise (Environmental Science, Ecological Studies, Botany, Zoology etc.) to enhance environmental consciousness and sustainability among the stakeholders. World Environment Day is celebrated to increase awareness for the protection of the environment. Tree plantation programmes are undertaken every year. This year, NSS has celebrated World Environment Day with 3221 participants. The following measures have been taken to enhance Environmental Consciousness and Sustainability: Energy conservation: The University is making conscious effort for energy conservation. To reduce the monthly electric consumption in the University campus, 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 Eco Park 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 rainwaters harvesting and natural recharges 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. TRAINING FOR OTHER AGENCIES: With the request of different agencies Government, Autonomous Bodies and NGOs, the Department of Lifelong Learning and Extension has conducted training programmes during the period: 1. For Consortium for Training, Research and Development (CTRD) (NGO), training on Agriculture, Mushroom Cultivation, Vermicomposting, Fishery, Food Processing training has been conducted with 169 participants. 2. For B. R. Ambedkar Institute of Panchayats Rural Development (Govt. Organization), training on Vermicompost Production has been conducted with 33 participants.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	Nil
Provision for lift	Yes	Nil
Ramp/Rails	Yes	5
Rest Rooms	Yes	27
Scribes for examination	Yes	2
Braille Software/facilities	No	Nil
Special skill development for differently abled students	No	Nil
Any other similar facility	No	Nil

#### 7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2017	5	5	Nil	Nil	Nil	Nil	Nil
<a href="#">View File</a>							

#### 7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Rules of Discipline and Proper Conduct for Students of Kalyani University	30/05/2014	Rules of Discipline and Proper Conduct for Students of Kalyani University 30.05.2014 To safeguard the interests of all sections of the University community, to keep the Campus life peaceful, eco-friendly and to improve the teaching-learning research, the Code of Conduct for Students has been formulated and accepted in the Executive Council Meeting. Any competent authority as the case may be, for good and sufficient reasons impose any or more of the punishments following the Code of Conduct and after giving sufficient opportunity of hearing

before a duly formed enquiry committee, may charge the student for the appropriate punishment following the Rules Regulations as described in the Code of Conduct.

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Inclusion of Course content on Universal values Ethics in the compulsory Course Work for Ph.D. and M. Phil. Students. University faculties and external experts deliver lectures on the subjects and interacts with the participants.	03/07/2017	29/12/2017	125
Faculty members and research students are informed periodically about the anti plagiarism policy and publication ethics as prescribed by UGC time to time.	01/07/2017	30/06/2018	450
Teachers Day Annual Public Lecture by Prof. Sankar Kumar Ghosh, Honble Vice-Chancellor, K.U.	05/09/2017	Nil	160
Several posters containing quotations of present past Great Personalities of India and World are placed at appropriate places of the University campus.	01/07/2017	30/06/2018	3000

No file uploaded.

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

1. Tree Plantation Programme initiated by the Department of Botany: Department

of Botany increased the area of the Herbal Garden of the University, received grants from the Ministry of Ayush, Govt. of India. Faculties and students from different departments of the University are invited for tree plantation. 2. Initiated the process of plastic free campus. The administration has taken strict measures to see that the campus is free of plastic carry bags and plastic cups. 3. Water harvesting: The University also has making conscious effort for water conservation. The monthly water consumption was 1156587 US Gallon. There are some rainwaters harvesting and natural recharges of groundwater ponds established in the university campus. 4. 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 5. 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.

## 7.2 – Best Practices

### 7.2.1 – Describe at least two institutional best practices

1. Title of the Practice Number I: Introduction of Annual Art Exhibition, Kalyani Art Utsav and Inter-University Painting Camps by Visual Arts Department

2. Objective of the Practice i. To generate widespread interest amongst the students of the Visual Arts Department to exhibit their works along with their mentors in and outside the University premises. ii. Cross-cultural exchange of ideas, bringing together students from all backgrounds into an open space of discussion and multi-disciplinary art. iii. Generate income for Students by selling their art works outside the University premises providing the students a direction for their future endeavours iv. Popularize Visual Arts to all the stake holders of university as well as to the general population of Kalyani through the conduction of Art Utsav in the Department where students make art and craft items including show pieces, toys, murals various small art pieces for general public including children at low cost. 3. The Context: The Visual Arts Department of University of Kalyani (<https://www.facebook.com/events/department-of-visual-arts-kalyani-university/kalyani-art-utsav/427963040878136/>) is one of the very few departments in the state as well as in the country which deals with post graduate studies in Visual Arts. Since, visual arts have some significant differences with Fine Arts, which is generally associated with its aesthetic value, visual arts department with its artworks from students can have a vast market generating revenue for the department/ students, provided their works get enough exposure in the local area and in cities. Such activities might generate recruitments and income for the students in several art workshops etc. 4. The Practice: The studio works created by the students are displayed in the Annual Art Exhibitions that are organized by the Department in the Kolkata city once a year. This is a unique event which attains a lot of publicity (Fig1). The Annual Art exhibition of the teachers is also organized in the city of Kolkata once a year with the same objective to showcase the work being done by the academic fraternity to have a lot of exposure of the same (Fig.2). A lot of people from all walks of life come to visit these events and appreciate the works that are on display (Fig. 3). Kalyani Art Utsav, an art fair organized by the Department of Visual Arts in campus exhibiting/ selling all the art works of the students of the department. All the teachers, non-teaching staff, administrative staff, students, peers and the local people take part in this art fair to buy the works of the students of the University (Fig.4, Fig. 5). Inter-University Painting Camp organized by the Department of Visual Arts. All the Art Institutes in West Bengal having post-graduation study were invited (Fig. 6, Fig7). 5. Evidence of Success: Because



of the practice of the Visual Arts Department, University of Kalyani, the visibility of the department including its students is commendable in the state of West Bengal. The students get absorbed in various Workshops, leading architect houses and use their artistic inputs in various pandals. Several works of the students were appreciated by the several artists in India (<https://ibgnews.com/2017/08/19/annual-exhibition-contours-2017-art-works-students-department-kalyani-university/>). 6. Problems Encountered: Kalyani being 60 Km away from Kolkata, logistics was a problem faced in 2-3 days exhibition arranged by the Department of Visual Arts, University of Kalyani. Transportation of the art works by the faculties and the students have been challenging which sometimes also created various damages to the artworks. Moreover, arranging students fair for general public requires human resource both in terms of the faculty members and non-teaching help which is scanty on the department.

1. Title of the Practice 2: Development of Herbal and Butterfly Garden by the Department of Botany and the Department of Zoology 2. Objectives:

- i. The development of Herbal and Butterfly Garden aims towards having a green and sustainable environment in the University.
- ii. The main objective behind development of herbal garden in the University of Kalyani is to have various herbal and medicinal plants in the University campus which can be used for teaching, research and outreach programmes to make people aware about the importance of herbal and medicinal plants to humans as well as their impact on the environment.
- iii. The Butterfly Garden in the campus is maintained with the objective of having a healthy environment as well as for studying all the species that visit the garden by the students of the Department of Zoology.
- iv. Both the facilities are maintained for several outreach programmes which not only benefit the direct stakeholders of the university but also makes students from various colleges and schools aware of the environment, herbal plants and their medicinal values etc.

3. The Context: The context behind maintaining Herbal and Butterfly Garden in the University of Kalyani is associated with protecting biodiversity, understand the importance of the same. The herbal garden houses several plants of medicinal uses which can be used for extensive research purposes. Moreover, butterflies and moths are indicators of a healthy environment and healthy ecosystems and they are important element of food chain and are prey for birds and other animal. So, a butterfly garden, designed to create an environment that attracts butterflies, will not only create a healthy environment but also educate our students about ecosystem services which humans have shown neglect. Another context behind having this practice was to generate revenue by selling plants to the University fraternity and introduce the idea of felicitating our honourable guests with plants from the garden and wellness kits of herbal origin which are all products of the garden.

4. The Practice: The Department of Botany and Zoology along with the Department of Environmental Sciences maintain the institutional Herbal Garden and a Butterfly Garden. The garden harbours huge number of medicinal plants and various species of butterflies. This project is funded by the Ministry of Ayush, Govt. of India, West Bengal Biodiversity Board, Government of India as well as by the University of Kalyani, Kalyani, Nadia (Fig.1 and Fig. 2)

Butterfly Garden:

Butterflies are beneficial to the environment through the symbiotic relationship they maintain with the plants they visit and their preferences for organic, native habitats. Although the larval caterpillar feeds on its host plant, this minimal damage is often worth the benefits that come from the adult butterfly. Butterflies play an enormous role in ecology by pollination and development of plant species. Numerous plants rely on pollinators such as butterflies for their reproduction. The preference of butterflies for native plants can be considered as huge environmental benefit, since landscaping with native plants is a more sustainable practice. Natives are better adapted to their climate, so they require fewer resources to be maintained. Butterflies are extremely susceptible to pesticides and insecticides. By not requiring the use of harmful chemical applications, native habitats provide a safe



environment not only for butterflies but also for other creatures. Butterfly habitats provide intriguing natural settings through the colourful appeal of the flowers and insects. This aesthetics draw human interest, which can result in a greater awareness of the environment and a better understanding of our role in preserving natural habitats. Butterflies are indicators of a healthy environment and healthy ecosystems. Butterflies are also an important element of the food chain and are prey for birds, bats and other insectivorous animals. It is with this background a butterfly garden has been setup within the campus of University of Kalyani adjacent to the Department of Botany Zoology. The list containing some of the butterflies spotted in the garden and their probable host plants is given below (Fig.4).

Scientific Name	Common Name
Ariadne merione (Cramer, 1777)	Common Castor
Ricinus communis Linnaeus	Castor Bean Plant
Papilio polytes Linnaeus, 1758	Common Mormon
Murraya koenigii (L.) Sprengel	Curry tree
Papilio demoleus Linnaeus, 1758	Common Lime Butterfly
Danaus chrysippus (Linnaeus,1758)	Plain Tiger
Calotropis gigantean (L.)	Crown Flower (Milk Weed Plant)
Catopsilia pyranthe (Linnaeus, 1758)	Mottled Emigrant
Cassia fistula Linnaeus	Golden Rain Tree
Catopsilia Pomona Fabricius, 1775	Common Emigrant
Acraea terpsicore (Linnaeus, 1758)	Tawny Coster
Passiflora foetida Linnaeus	Wild Maracuja

Table: Butterflies spotted on their probable host plants. Herbal Garden: The garden houses more than a hundred plants of medicinal importance. The area of the garden has a planning for extension with extensive plantation programmes in the future. The garden is primarily maintained by the Department of Botany and is used by the post graduate students for performing practical courses as well as by the research scholars. The garden has earned praises from the Forest Department, Govt. of West Bengal and West Bengal Biodiversity Board, Govt. of West Bengal. Here is a glimpse of the garden (Video1)

5. Evidence of Success: The Herbal and Butterfly Garden of the University of Kalyani has received several funding from the State Government as well as from the Central Government for its maintenance. Moreover, because of its excellent maintenance, University has sanctioned for the extension of the area of the herbal garden.

Various workshops, open house for school and college students have been conducted in the garden which testifies the success of the same (Fig. 5, Fig. 6 and Fig. 7). 6. Problems Encountered: The present area of the herbal and butterfly garden is huge and requires considerable funding and hard work with a huge workforce for its maintenance. Challenges are faced by the departmental faculties and people associated with the maintenance of the same. Also, natural calamities like storms, cyclones sometimes cause damage to the garden which requires to be restored.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

<https://klyuniv.ac.in/wp-content/uploads/2022/igac/InstitutionalBestPractices/ibp2017-18.pdf>

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The uniqueness of the University of Kalyani is evident from its location, policies and programmes undertaken throughout the year. Based on this uniqueness, the University undertakes such measures quality enhancement programmes of study as would be a qualitative and distinct addition to higher education instead of quantitative enhancement and expansions of the existing facilities. To maintain national integrity and progress, the University has been concentrating on such initiatives which are very much relevant to the development and progression of the nations. Considering these aspects, the University has taken the following initiatives: (i) The ideas of secularism,

national integration and scientific outlook have been promoted with care. (ii) Considering the location of the University, students of all religions are admitted here, and they promote maintain a sense of communal harmony. (iii) Interdisciplinary subjects are introduced for teaching and research to ensure completeness of knowledge. (iv) The decisions regarding Syllabus review upgradation, method of evaluation, compulsory coursework for Ph.D. students, are taken by the teachers themselves. (v) Admission to Ph.D. course is made through an entrance examination viva voce of the qualified students. (vi) There are provisions for different scholarships for students. Students, as well as faculty members get financial support for field work in some subjects. (vii) The University has signed Memoranda of Understanding (MoU) with many National/International Institutions. (viii) The University has been organising Entrance Examinations for Microbiology, Molecular Biology Biotechnology subjects.

Provide the weblink of the institution

<https://klyuniv.ac.in/wp-content/uploads/2022/igac/InstitutionalDistinctiveness/id2016-17.pdf>

### **8.Future Plans of Actions for Next Academic Year**

- More smart classrooms are to be prepared with audio and video facilities for the purposes of recording and presentation.
- To strengthen the existing academic programmes, the important and immediate future plan would be to fill up the vacant faculty positions following the certified 100-point roster.
- More instruments are to be purchased in the laboratories of Physics, Chemistry, Zoology and Botany to accommodate the needs of the modified syllabi as per UGC guidelines.
- In science faculty, more attention will be paid for collaborative interdisciplinary research as well as to submit proposals to organize seminar/conferences of International/National level.
- In the University campus, there exists one NCC Group Centre where NCC Cadets from different parts of West Bengal and outside of the State are trained. We have plans to open a Unit of NCC in the University to train our students (both male female) so that they can render service to the nation on behalf national defense system.
- National Service Scheme (NSS) unit of the University will be increased to aware a large section of the rural people. Fields of awareness will be literacy, health, gender equity and social awareness programme at the National/State level.
- Activities of the department of Rural Development Studies will be extended and an endeavor will be taken to train the rural people for the management of local resources to boost up the economy of the rural people.
- Research ethics are a part of course work for Ph.D. M. Phil. Students. University plans to organize at least two National Conferences on "Ethics in Public Service" for Ph.D. M. Phil. Students.
- Complete e-governance will be implemented in all sectors of Academic, Administrative, Finance, Admission and Migration.