JANUARY – JUNE

2025

KALYANI UNIVERSITY CHRONICLES

ISSUE–1 , VOLUME–1

Knowledge *Innovation* *Excellence*

Inside

From the Vice-Chancellor's Desk

As Vice-Chancellor of the University of Kalyani, it is my privilege to showcase our vibrant spirit and remarkable achievements. Through our shared commitment to excellence, innovation, and inclusivity, we are shaping a brighter future for our university community.

Dear Readers and Members of the University of Kalyani Community,

It is my privilege to address you through this new edition of our university newsletter "The Kalyani University Chronicle", which stands as a testament to our collective commitment to academic excellence, innovation, and societal development.

Over the years, the University of Kalyani has blossomed into a vibrant center of ideas, discovery, and growth, a place where where curiosity meets purpose and learning inspires transformation. Our journey has been shaped by the unwavering dedication of our faculty, the commitment of our staff, and the passion and creativity of our students, strengthened by the continued support of our alumni and collaborators. With this edition of the newsletter, we celebrate the spirit of the Kalyani University community — its achievements, innovations, and shared pursuit of excellence. Each story, article, and reflection within these pages stands as a tribute to the university's enduring quest for knowledge and its role in shaping a brighter, more enlightened future.

Join us as we explore the diversity of ideas, the depth of scholarship, and the boundless imagination that define our collective journey.

Thank you for your continued support and enthusiasm. May we move forward in unity, forging new paths and elevating the University of Kalyani to greater heights.

With warm regards,
Professor (Dr.) Kallol Paul
Vice-Chancellor
University of Kalyani

Message from the Chairperson, Newsletter Committee

We are delighted to present this edition of the university newsletter "The Kalyani University Chronicle", a collaborative reflection of our vibrant campus life and outstanding achievements. The Newsletter Committee extends its heartfelt gratitude to the Hon'ble Vice-Chancellor for his visionary leadership and steadfast support in reinitiating the publication of the newsletter in an organized manner.

As an institution that continues to grow as a center of academic excellence and innovation, the University of Kalyani takes pride in nurturing a culture of inquiry, creativity, and collaboration. "The Kalyani University Chronicle" captures the essence of that journey. In these pages, readers will find glimpses of the accomplishments of our faculty, students, researchers, and alumni—through pioneering research, innovative projects, academic events, and community initiatives that showcase the dynamism of our university.

The Newsletter Committee further extends its sincere thanks to the contributors, coordinators, and all members of the university fraternity whose unwavering support and enthusiasm have made this publication possible.

We believe this newsletter serves not only as a chronicle of our achievements but also as an inspiration for continued excellence and collaboration. Let this newsletter be a reminder of the boundless possibilities that emerge when intellect, creativity, and purpose come together.

We welcome your feedback and invite you to share your ideas, achievements, and perspectives for future issues. Together, let us continue to document and drive the evolving narrative of excellence at the University of Kalyani.

Sincere regards,
Prof. Subhratanu Bhattacharya
Chairperson, Newsletter Committee
University of Kalyani

To publish your news/event in the upcoming July to December edition, please send the write-up along with a relevant picture to: kunews2025@klyuniv.ac.in

Cover Story

Strengthening Global Ties: Erasmus+ KA171 Brings Kalyani University and University of Lodz Together

The vibrant academic corridors of Kalyani University became the epicenter of international collaboration when Ms. Karolina Tomczyk, Senior Specialist from the University of Lodz, Poland, visited the campus from June 16th to 20th, 2025. Her week-long stay, made possible through the Erasmus+ KA171 Mobility Program, was a testament to KU's growing global outreach and its commitment to advancing research and cultural exchange.

Ms. Tomczyk brings with her an impressive record—over 17 years in project management encompassing numerous European and Polish national ventures. Her expertise in project coordination, budget supervision, financial reporting, and risk management enriched her interactions with the KU community. During her visit, she prioritized sharing insights on the safe handling of chemical and biological materials, a critical aspect for the various research departments she engaged with, including Biochemistry, Botany, Chemistry, Environmental Science and Ecological Studies, and Physiology.

The visit commenced with an introductory meeting with university officers where Ms. Tomczyk outlined her professional background and the goals of her collaboration. On the second day, she had an impactful meeting with the Hon'ble Vice Chancellor and the Erasmus Committee, followed by lively interactions with Deans and the Director of Distance and Open Learning. Through these formal and informal meetings, avenues for future research funding, mutual academic initiatives, and departmental exchanges were extensively discussed, offering KU's faculty and students a window into European research paradigms and funding mechanisms.

Beyond administrative and research-focused discussions, Ms. Tomczyk's visit embraced the broader academic and social fabric of the university. Her session at the Centre for Women's Studies fostered dialogue on gender equality and potential cross-border projects empowering women in science. Her enthusiasm for environmental sustainability was evident as she participated in a tree-planting ceremony at the ENVIS Centre and explored the Medicinal Plant Garden, underscoring the vital link between research and ecological responsibility. Additionally, her exploration of the Central Library and Registrar's section revealed a keen interest in KU's academic resources and support structures.

Throughout the week, cameras captured key moments—from formal group photographs with the Vice Chancellor and Erasmus Committee, to candid shots in laboratories and the library, reflecting both the academic magnitude and human warmth inherent in such exchanges. These images vividly illustrate the bridges being built, not just between institutions, but between individuals and communities committed to shared growth.

Ms. Tomczyk's dynamic visit concluded with a renewed sense of partnership. Her insights into European research practices and her open engagement broadened the outlook of everyone she met, leaving a lasting impact on KU's institutional culture and international aspirations. The groundwork laid during this Erasmus+ KA171 mobility program signals abundant opportunities for deeper, more impactful collaborations between Kalyani University and the University of Lodz, marking yet another milestone in KU's journey towards global relevance and excellence.

Alumni Spotlight: Insights from Prof. Swadhin K. Mandal

Prof. Swadhin K. Mandal is a faculty member of IISER Kolkata, distinguished chemist specializing in organometallic chemistry and catalysis. He completed his B.Sc. (third rank, first class) and M.Sc. (first rank, first class) at the University of Kalyani (1990–1995) and earned his Ph.D. from the Indian Institute of Science, Bangalore under S. S. Krishnamurthy. He conducted postdoctoral research at the University of California, Riverside (2002–2006) with Robert C. Haddon and as an Alexander von Humboldt Fellow with Herbert W. Roesky at the University of Göttingen (2006–2007). He has received prestigious honors including the Shanti Swarup Bhatnagar Prize in Chemical Sciences (2018), the Friedrich Wilhelm Bessel Research Award (2020), and the SERB Distinguished Investigator Award. He is a Fellow of both the Indian National Academy of Sciences (FNA) and the Indian Academy of Sciences (FASc). In 2025, he has received the prestigious J. C. Bose Fellowship from ANRF,. He serves on editorial advisory boards for leading journals in chemistry and has held visiting professorships at premier institutes, worldwide.
Here he talks with Prof. Subhratanu Bhattacharya about his journey from Classroom of KU to an illustrious career, and his perception about the University of Kalyani.

How would you describe your association with the University of Kalyani and your first impressions of the campus?

Answer: I feel strongly connected with Kalyani University (that's how we used to call it, not as University of Kalyani!) since my childhood. When I was in class eight, I stood first in my school in science exam (although I was never the first boy in the school except in my last school exam). I received a book as a prize, "Biswasghatak" written by Narayan Sanyal. It is a historical fiction novel based on facts from the Manhattan Project and inspired by the book 'Brighter than a Thousand Suns" by the Austrian author Robert Jungk. I was a voracious reader of various books since my childhood from our library at my village (the library is now abandoned, like many other libraries around, very sadly though!). I was extremely thrilled to read the book. The book is about the stories of a series of discoveries unravelling atomic structure and building up of the first atomic bomb, also, later the path towards nuclear energy, and how Germany, especially the University of Göttingen, contributed to this development.

Since then, I started dreaming of studying chemistry at Kalyani, so that someday I will go and do research at the University of Göttingen in Germany! I did not know any other university other than Kalyani University, back then. For me, studying at Kalyani University will lead me to the University of Göttingen!

I was quite clear about my objective since then. I still feel very proud that I could complete all three dreams. I studied chemistry at Kalyani University, and then I gave up my position in the USA and another offer from the UK (where I was offered a position with a promise to be converted to Professorship), and I took up the Alexander von Humboldt Fellowship at the University of Göttingen, Germany. I did not think twice to make this decision the moment I was offered an opportunity to study at Göttingen.

With this background, Kalyani University plays a very significant role in my academic career graph. I joined the chemistry department in 1990. At that time, I can very clearly remember, it was a unitary campus for both graduate and post-graduate courses. By that time, the university was already quite well established. It was considered very competitive to get admission into its Undergraduate program. Altogether, we were only 18 students in the chemistry integrated UG-PG program who were offered, which gave us a feeling of an "elite" class of students. The admission offers used to be made based on the higher secondary results.

The campus was very calm and academic, with lush green fields and tree-lined roads, within a semi-rural setting, which attracted me on the very first go. It very soon became my home away from home. I also feel proud to be a part of one of the very mature chemistry departments of India (the chemistry department was founded in 1961).

So, yes, the Kalyani University is an inseparable part of my career graph. For me, Kalyani University has been an honour since I was a child, and today, it remains the same.

Why did you choose the University of Kalyani for higher studies?

Answer: I originated from a remote village, and for me, the world was very small, I am talking about the mid-80s. I only knew about Kalyani University, of course, a little later, I got to know about Presidency College or Jadavpur University in Kolkata, which is far away from my home! But before that, my "mental marriage" with Kalyani University happened!

I never felt I would fit in Kolkata; rather, a village or town-like setting is more appealing to me, and even today, I have a similar feeling. That's how I am here in IISER Kolkata in the midst of a village, and life is incredibly healthy here, not polluted like in big cities.

How has the University of Kalyani impacted your multifaceted career?

Answer: I always believe that where your mind is stimulated, you can do anything or perhaps everything. Kalyani University stimulated my mind and my intellect! It gave me the first modern lesson in chemistry.

In the beginning, I did not like the chemistry teaching as it was being taught in English. I was struggling to grasp the language more than the science. We started loving those teachers who were not shying away from speaking in Bengali in the classroom. I now take the opportunity to give my scientific lectures in Bengali, so that I can reach out to the students from villages who are not educated by the English medium schools.

Actually, only when you face a challenge in life that it opens up new opportunities. Since I was sitting idly in many lectures at the beginning, I started reading by myself at home with the help of a dictionary. Many times, I dropped out of the class, and in fact, in the first part, I paid an extra fee to sit in the exam because I was not regular in class. But slowly I picked up within two years, when I started realizing the rigorous academic training by its renowned professors.

Contd.

Various dedicated faculty members shaped the fundamentals of the scientific chemistry background in me. The calm and focused atmosphere at KU inspired my independent thinking, which helped my future scientific outlook.

In the final year of my MSc, I discovered that many of my seniors from KU were doing outstanding research at IISc Bangalore. Some notable examples include Subhrangshu Mandal (now a faculty member at the University of Texas at Arlington, USA), Paresh C. Ray (currently a professor at Jackson State University, USA), Swapan Pati (now a faculty member at JNCASR, Bangalore, and a recipient of the Shanti Swarup Bhatnagar Prize in Chemical Sciences), and Jitendra K. Bera (now a professor at IIT Kanpur).

Their story we heard from Prof. A P Chattopadhyay, a shy but very inspiring faculty member of Chemistry at KU then, who told me to go to IISc Bangalore for a PhD. Later, I joined the IISc Bangalore for my PhD.

So basically, KU worked as the launching pad for my career growth: towards my destiny, and that was the University of Göttingen!

What has been the trajectory of your career since you left the University of Kalyani?

Answer: After leaving the university, I joined Prof. S. S. Krishnamurthy's group at the Inorganic and Physical Chemistry (IPC) department of the Indian Institute of Science, Bangalore, for my doctoral research, which I finished in 2002.

Having earned the PhD degree, I pursued postdoctoral research with Prof. Robert C. Haddon in the Department of Chemistry at the University of California, Riverside, USA.

In 2006, I joined the famous German Inorganic Chemist Prof. Herbert W. Roesky as the Alexander von Humboldt Fellow at my dream destination: the University of Göttingen!

Following this, I started as an Assistant Professor at IISER Kolkata in 2007. Now, I am working as a professor in the Department of Chemical Sciences, where I served earlier as the Head of the Department.

During my journey at IISER Kolkata, I have been fortunate to earn several prestigious national and international recognitions, including the very competitive (annually, approx. 20 internationally recognised scholars are awarded globally across the field of natural sciences, medicine, engineering and social sciences) Friedrich Wilhelm Bessel Research Award (2020) from the Alexander von Humboldt Foundation in Germany and the Shanti Swarup Bhatnagar Prize in Chemical Sciences (2018). I have also been recognised with the SERB Distinguished Investigator Award. I was elected as a Fellow of the Indian National Science Academy and the Indian Academy of Sciences. Very recently, I was awarded the prestigious J. C. Bose Fellowship by the ANRF, Govt of India.

I am serving (or have served) as an International Editorial Advisory Member for various journals of the American Chemical Society and the Royal Society of Chemistry. I also held visiting professorships at several esteemed institutions, including IIT Bombay, the Weizmann Institute of Science, Israel, Rutgers University, New Brunswick, USA, Paul Sabatier University, France and various universities in Germany, including the University of Göttingen.

My current research interests include the development of new concepts in catalysis using main-group elements that mimic transition metals.

My work has been published in nearly 140 high-impact international journals and patents, including Nature, Nature Catalysis, Journal of the American Chemical Society (JACS), Angewandte Chemie, etc, among others. To date, I have supervised 19 PhD students, several master's and postdoctoral students.

What inspires your own research?

Answer: I am driven by the excitement of thinking outside the box and pursuing ideas that no one has imagined before. Freedom of thought is at the core of my research philosophy.

I always tell my students: Don't work on problems that have already been solved. Even if we obtain results, we don't pursue them unless the problem itself is novel and truly excites us. We only publish work that inspires us and has the potential to shift perspectives.

Currently, we're challenging the conventional belief that certain catalytic reactions are impossible without metals. Our goal is to develop metal-free catalytic processes for reactions that the scientific community widely assumes cannot occur without metal catalysts. It's an enormous challenge, but that's exactly what makes it so exciting for me.

What do you enjoy most about your career?

Answer: In our profession, we are given an excellent opportunity to shape young and bright minds. I very much enjoy the development of human resources, and they are the best product we can ever produce, and yes, they are the finest products which can be made in India!

Moreover, while doing this, I also learn many new things from students. I am fortunate to interact closely with young minds, and many times those minds are brighter than thousands of suns!

This is the enormous excitement of my career!

Could you provide some information about your research?

Answer: Yes, of course!

It is now widely recognized that certain essential elements will be depleted from the earth within the next 100 years due to their increasing industrial demand. To address this challenge, it is imperative to seek sustainable alternatives that replace existing methods with more environmentally friendly solutions. A key highlight of our research is an innovative approach to catalysis, which eliminates the need for expensive, rare, and toxic transition metals: traditionally considered essential for catalytic transformations such as C-C coupling reactions and CO_2 reduction.

Our work on transition metal-mimicking catalysts not only opens new avenues for research but also holds immense promise for industrial applications, offering cost-effective and sustainable alternatives. Our work has been praised and highlighted by international experts, including a Chemistry Nobel Laureate.

Many industrial processes, including pharmaceutical industries, heavily rely on rare, expensive, and often toxic transition metals. We have made fundamental contributions to transition metal-free catalysis, particularly in the field of C-C cross-coupling reactions, a breakthrough that aligns with the Nobel Prize-winning chemistry in this area (Nobel Prize in Chemistry, 2010).

Contd.

These reactions are crucial for various industrial applications and have traditionally depended on palladium (Pd)-based catalysts. However, achieving such transformations without transition metals has long been considered a major challenge. My group has successfully developed methods to accomplish C-C and C-N cross-coupling reactions without any transition metals.

In a parallel effort to eliminate the dependence on transition metals, we have made significant contributions to CO_2 conversion, addressing one of the most pressing global challenges: greenhouse gas emissions. My research team has developed metal-free catalysts for the discovery of new reactions with CO_2 into valuable chemicals, under ambient conditions. These innovative approaches not only make CO_2 conversion processes more economically viable but also pave the way for future green industrial technologies.

Prof A P Chattopadhyay (middle) with KU chemistry alumni (right to left): Swadhin Mandal with Prof Swapan Pati (JNCASR, Bangalore), Prof Jitendra Bera (IIT Kanpur) and Prof. Sukhendu Mandal (IISER Thiruvananthapuram) during BRICS meet at IISER Kolkata in Jan,2020,

What message would you like to share with the current students of the University of Kalyani?

Answer: Stick to your goals and never give up. Do whatever makes you happy and raises your self-esteem. I lost my wife almost eight years ago, very suddenly and at a very young age, so I can tell you, life can go upside down anytime. So, don't wait, just try everything or anything you love to do.

Remember only one thing: while doing so, you must not harm others!

You often emphasize passion and excitement in research. What advice would you give to students struggling to find their true passion?

Answer: That's a great and very real question! Many students feel uncertain about their "true passion,".

Here's some advice:

Passion is often discovered through action, not contemplation. Try things. Read literature, attend seminars. Remember, curiosity grows with exposure. Many researchers didn't begin with a burning passion for their topic. They found an area that was interesting enough, and over time, their engagement and depth of understanding grew into passion.

Your interests will evolve. That's normal. Mentors and research communities can make a huge difference. Sometimes, a good supervisor or lab culture can ignite your passion more than the topic itself.

How do you feel when you look back at your journey from being a student at the University of Kalyani to becoming an internationally recognized scientist?

Answer: I feel very nostalgic!

I came from a modest family background in a rural village setting around Karimpur, which was not well-developed at the time. Coming from an obscure village towards gradually maturing up into a doctorate and post-doctorate researcher in a seemingly unknown country, to becoming what I am today. It has been, overall, an overwhelming experience!

My parents are my backbone of success, who have always inspired me to excel towards my journey. My wife has been a great friend who stood by me until she was alive, and I believe even today she is with me.

Of course, my teachers from KU, my PhD supervisor Prof S. S. Krishnamurthy, who taught me the value and ethics of scientific research, all contributed very significantly.

My daughter, the brightest mind I have ever seen, always inspired me to be better. She is literally my inspiration to learn new things and be smarter.

Notably, I must say, a handful of my students who were always with me during the most difficult days and today have increased my life span with their care and love. I truly admire their affection.

It's a limitless ladder of excellence, and we are climbing through it. I believe that whoever I am today, I must strive to be better tomorrow and even better the day after that. This journey is not mine alone; it has been shaped by the collective efforts of many. I often find myself at a loss for words to fully express my gratitude for the support I have received from each one of them.

Beyond Lab: Lab trip to Vietnam at Ninh Binh fun with his daughter and PhD students

Some selected notable publications of Prof. Mandal

•Gautam, Sreejyothi…Mandal and coworkers, J. Am. Chem. Soc. 2025, 147, 23001−23013 (*Highlighted and Commented by a Chemistry Nobel Laureate*)

•Maji… Mandal and coworkers, Nature Catalysis 2024, 7, 375-385 (*Highlighted and Commented by a Chemistry Nobel Laureate*)

•Sil… Mandal and coworkers, J. Am. Chem. Soc. 2022, 144, 22611-22621 *(The first author is an alumnus from KU, Chemistry)*

•Ahmed… Mandal and coworkers, J. Am. Chem. Soc., 2018, 140, 8330-8339. *(Highlighted in Chemistry World)*

•Sau… Mandal and coworkers, Angew. Chem. Int. Ed. 2016, 55, 15147 –15151 *(Highlighted in Nature India)*

Faculty News

Awards, Honours and Recognitions

Dr. Swati De

Professor, Department of Chemistry, has been elected as the *Fellow of the West Bengal Academy of Science and Technology (WAST).*

Dr. Jayanta Kumar Biswas

Professor, Ecological Studies, has been elected as a board member of (Asian Chair from India), the Society for Environmental Geochemistry and Health (SEGH) (UK) for the period of 2025-2026.

He has been assigned as the Lead Guest Editor of a special issue of *Current Opinion on Environmental Science and Health (Elsevier).*

Dr. Manindranath Bera

He has also been recognised as an Emerging Investigator by the American Chemical Society Journal "*Crystal Growth & Design*".

Currently he is being assigned as the Guest Editor in "*Inorganica Chimica Acta (Elsevier)*" to publish a Special Issue

Dr. Angshuman Bagchi

Professor, Department of Biochemistry and Biophysics, delivered *Plenary Lecture at the "International Seminar on 'From Genome to Organism: Part IV"* organized by the Department of Zoology and Department of Biotechnology, at Sidho-Kanho-Birsha University, during 5-6 March, 2025.

Dr. Asmita Samaddar

Assistant Professor, Department of Zoology, delivered a Keynote Lecture at the "*International Symposium on Sustainable drug design and nanoparticle development: Quantum and Computational Perspectives*" held at Nirmala College of Pharmacy Atmakuru, Mangalagiri, Andhra Pradesh, during 22-23 January, 2025.

Arunima Biswas

Assistant Professor, Department of Zoology, has been elected as an Executive Committee Member of Indian Association for Cancer Research (IACR), West Bengal Chapter.

She served as a member of the Organizing Committee for IACR 2025 and was also a respected Jury Member for Poster Evaluation at IACR 2025, held at the Biswa Bangla Convention Centre, Kolkata.

She has been selected as the Editor of Special Topic Novel Approaches to Overcome Drug Resistance in Breast Cancer for Journal Frontiers in Oncology.

Dr. Subhashis Sahu

Associate Professor, Department of Physiology, has been nominated for the Fellow of the Physiological Society of India (FPSI).

Being a specialist in ergonomics and occupational physiology. he was invited to serve as a trainer and expert at the Two-day Ergonomics Training Programme organized by the Industrial Hygiene and Safety Section (ISHS) at Bhubaneswar, Odisha, during 12-13 May, 2025.

Dr. Maharaj Biswas

Assistant Professor, Department of Zoology, was honored with the International Excellence Award 2025 by "Exceller Books" for outstanding contributions in R&D for research-based writing.

Dr. Soma Mukharjee

Professor, Department of Environmental Science acted as the *Distinguished Committee Member* and *Chairperson* of a Technical Session of two days National conference organized by DESKU EIACP PC-RP, KU, during 29-30 May, 2025.

She was also the *Organizing Committee Member, Joint Secretary and Chairperson* of a Technical Session of International Conference and Gender Sensitization Programme on 'Women's World in the 21st Century: Accelerating Action towards Sustainability' organised by Centre for Women's Studies, KU during 11-12 March, 2025.

Invited Lectures

Dr. Tanima Saha, Assistant Professor, Department of Molecular Biology & Biotechnology, delivered an invited lectures "*On hands-on workshop on Molecular Diagnostics"* from 6-10 January, 2025 at RISE Foundation IISER, IISER-Kolkata.

Dr. Tanima Saha delivered an invited lecture at "*Gāṅgeya*," the Student Chapter of Eastern India, to celebrate International Biophysics Week at IISER-Kolkata, on March 18, 2025.

Dr. Tanima Saha delivered an invited lecture at the faculty development program organized by Guru Nanak Institute of Pharmaceutical Science and Technology, during 11-15 June, 2025.

Dr. Asmita Samaddar delivered an invited lecture at the "*International Conference on Global Trends in Health, Technology, and Management (GTHTM-2025)*" at the Tiger Camp Resort in Jim Corbett National Park at Ram Nagar, Uttarakhand, India, during 15-17 February, 2025.

Prof. Sibsankar Jana department of Library and Information Science, delivered an invited lecture on "*Integration of AI Tools in developing new innovative Project Plans*" in the one-Day "Students incubation workshop on sustainable development" jointly Organized by The Asiatic Society and Indian Institute of Social Reform & Research, in collaboration with the Paribesh Unnayan Parishad, on April 29, 2025.

Prof. Nita Bandyopadhyay department of Physical Education, delivered an invited lecture on "*Impact of Exercise on Graceful Ageing of Indian Women*" in Two day's International Conference on "Global Perspective on Physical Education, Yoga, Sports for Peace, Ageing, Awareness & Recreation" at B.P.C.A's College of Physical Education, Wadala, Mumbai, during 13-14 January, 2025.

Faculty News

Invited Lectures

Prof. Nita Bandyopadhyay delivered an invited lecture on "*Role of Exercise in Aging of Indian Women*" in two day's National Seminar on "Physical Activity, Recreation and Yoga: A Holistic Approach to Healthy Ageing" organized by Netaji Subhas College Abhanpur, Chhattisgarh in collaboration with Chhattisgarh Sports Psychology Association, during 08-09 February, 2025.

Prof. Angshuman Bagchi delivered an invited lecture on "*Molecular modelling and dynamics simulations of proteins*" at the "Workshop Series on Computer Aided Drug Designing (CADD), Part III: Introduction to QSAR and Molecular Dynamics Simulation", organized by the Bioinformatics and Computational Biology Centre, Sponsored by the Department of Biotechnology, Govt. of India, Assam University, Silchar – 788011, Assam, India, during 21-25 February, 2025.

Dr. Abhay Sankar Sahu, Professor, Department of Geography delivered an invited lecture on "*Single use plastic: how can the public, businesses, and administration take step-by-step action to eliminate single use plastic?"*, in the National Conference, jointly organized by Save Jalangi and Dwijendralal College, Krishnagar, Nadia, West Bengal, India, on 17.02.2025.

Prof. Manindra Bera delivered an invited lecture on "*Designed Assembly of Multimetallic Compounds as Promising Antibacterial and Antibiofilm Agents*" in 2nd International Conference on Renewable Energy Technologies and Bio-Sustainability (ICRETBS 2025), organized by the New Route Education Pvt. Ltd., Digha, West Bengal, India, during March 22-24, 2025.

Prof. Jayanta Kumar Biswas delivered an invited lecture entitled "*Microplastic Contamination in Soil and Water Systems: Impacts and Mitigation Strategies*" in the national Workshop on "Use of Polymulching in Agriculture: Challenges and Opportunities" organized by ICAR-ISSS, Bhopal, ICAR-ATARI, Kolkata and RAKVK, Nimpith on 05.02.2025.

Prof. Jayanta Kumar Biswas delivered an invited lecture in the "Regional Advocacy Event" on "*Participatory Climate Action for Vulnerable Ganges-Brahmaputra-Meghna Basin*" on 27.02.2025.

Prof. Jayanta Kumar Biswas delivered an invited lecture in the National Conference on "*Revitalizing Decaying River and Sustainable Environmental Practices*" at Dwijendralal Rai College on 17.02.2025, and acted as a Panelist in two sessions.

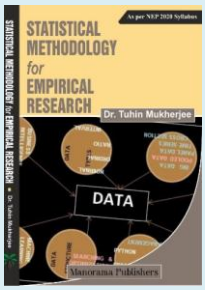
Prof. Angshuman Bagchi delivered an invited lecture on "*Prediction of protein-protein interactions using machine learning based approaches*" at the "Recent Advances in Interdisciplinary Science & Research (RAISR-2025)", organized by the Department of Physics, in collaboration with the Department of Biosciences, Chemistry and Pharmacy, JIS University, Kolkata, West Bengal, on National Science Day (28.02.2025).

Prof. Abhay Sankar Sahu, delivered an invited lecture on 'Geography of Environmental Issues and Human\ Sustainability', in the National Seminar, organized by the Department of Geography, Dwijendralal College, Krishnagar, Nadia, on 28.03.2025.

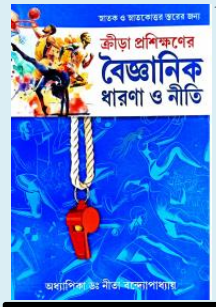
Prof. Angshuman Bagchi delivered an invited lecture on "*Application of molecular modelling and docking studies in Biology*" in the "Five-day Workshop on Revolutionizing Healthcare with AI: Computational Biology and Computer Vision in Medical Diagnostics" organized by Department of Computer Science and Engineering SRM University, Andhra Pradesh, during 28 April to 2nd May, 2025.

Prof. Nita Bandyopadhyay delivered an invited lecture entitled "*Surya Namaskar: A Healthy Daily Practice for Corporate Women*" in "International Conference on Sports Science 2025" organized by Ton Duc Thang University, Ho Chi Minh City, Vietnam, during 12-13 June, 2025.

Books Published



by Dr. Tuhin Mukherjee, Associate Professor, Department of Business Administration (2025): *Statistical Methodology for Empirical Research,* Manoroma Publishers (New Delhi) (ISBN: 978-93-94441-20-0)



by Prof. Nita Bandyopadhyay (2025): *ক্রীড়া প্রশিক্ষণের বৈজ্ঞানিক ধারণা ও নীতি,* S.S. Publication (Kolkata) (ISBN: 978-81-968365-9-7)

Paper Presented

Prof. Abhay Sankar Sahu presented a paper on '*Environmental Issue of Indian Himalayan River Systems: An Overview*', in the International Symposium, jointly organized by the Department of Geomatics Engineering, School of Engineering, Kathmandu University, Dhulikhel, Nepal, and Department of Geography, University of Manchester, UK at the Department of Geomatics Engineering, School of Engineering, Kathmandu University, Dhulikhel, Nepal, during 16-17 April, 2025.

Dr. Debalina Debnath, Assistant Professor, Department of Folklore presented a paper on *'Banglar Krishno kendrik Utsav Anushthan'* in ICSSR-ERC sponsored To-day International Seminar organised by the department of Bengali Ramakrishna Mission Residential College Narendrapur held on 10-11 January, 2025.

Dr. Debalina Debnath presented a paper entitled *'Identity crisis and transformation in Assamese Biyanaam :A Performative Study"* in 2nd ICIMPA 2025 organised by the department of Musicology, RBU, in collaboration with Muktobodha, held on 18-19 March, 2025.

Dr. Sahina Khatun, Assistant Professor, Department of Geography, presented a paper on '*Inclusive Cities from the Elderly Perspective: An Indian Insight*' in the XIX DGSI International Geography Conference 2025 at the Department of Geography, Central University of South Bihar, Gaya (Bihar) during 22-24 February 2025.

Faculty News

Community Outreach and Extension Activities

A series of extensive outreach and extension activities were conducted as part of the ICSSR-sponsored project to increase awareness and screening for gynaecological cancers among underserved rural populations in West Bengal. The health camp and awareness programs were organized on 25th April 2025 at the Forest Beat Office, Matla Range, Jharkhali, Basanti Block, Sundarbans, along with follow-up activities in nearby Gram Panchayats and schools.

As ICSSR project team members, Prof. Archita Ghosh (Department of Economics), Prof. Bijan Sarkar (Department of Education), Dr. Tapati Bhadra Banerjee (Department of Rural Development Studies), Dr. Arunima Biswas (Department of Zoology), and Dr. Neera Sen Sarkar (Department of Botany) from the University of Kalyani were actively involved in the program along with Dr. Anindya Halder (Department of General Surgery/Breast Cancer Clinic, AIIMS-Kalyani) and Dr. Goutam Mukherjee (Director, Gene Prospera Biotech Pvt. Ltd., Hooghly, West Bengal) (as corporate collaborator).

The outreach initiatives employed innovative teaching methods, including awareness videos and direct engagement with villagers, school students, and teachers to enhance science communication and promote cancer awareness. Free medicines were distributed and socio-economic barriers to healthcare were discussed, with over 100 villagers benefitting from consultations and early screening by a dedicated team of doctors and project members.

Consultancy Services

Dr. Neera Sen Sarkar, Associate Professor, Department of Botany, successfully completed the assigned consultancy project 'Preparation of a project proposal for Wetland Health Cards for the 244 Wetlands" assigned by the East Kolkata Wetland Management Authority (EKWMA). Total grant received in the project was Rs. 3,40,000/- only.

Dr. Subhashis Sahu was invited to participate in a consultancy project entitled "Ergonomic Study on Office Workers and Plant Laborers at IVL Dhunseri Petrochem Industries Pvt. Ltd., Haldia," organized by IVL Dhunseri Pvt. Ltd., Haldia, from May 27-30, 2025. The project focuses on five key areas: general health status, work quality, chronobiological milieu, postural analysis, and food intake patterns of office workers and plant laborers.

Sponsored Research Projects

Dr. Subhasish Sahu (PI) has been awarded an EMR project funded by the ICMR, Govt of India, valued at ₹72 lakhs. The three-year project, sanctioned on 10th February 2025, is titled "*Occupational Stress, Respiratory Health and Inflammatory Responses among Some Informal Sectors in India*."

Dr. Jatindra Nath Bhakta (PI) **and Prof. Jayanta Kumar Biswas** (Co-PI) are currently implementing a project funded by the NFDB, Ministry of Fisheries, Animal Husbandry & Dairying, Govt. of India, titled "Developing Nature-Based Solutions for Sustainable Integrated Aquafarming towards a Circular Bioeconomy." The project carries a first-year funding allocation of ₹32.6 lakh.

Dr. Arunima Biswas has exhibited exemplary leadership and scientific acumen through several major research initiatives.

Among her most notable contributions is the ICSSR-funded project, *"Stakeholders' Perception and Socio-economic Outcomes: Exploring the Impact of an Innovative Screening Technique of Gynaecological Cancers and Strategic Plans for Implementation"* (₹1 crore). This ambitious project aims to evaluate and implement novel screening techniques while analyzing their socio-economic and public health impacts.

As PI, Dr. Biswas is leading a CSIR-funded project entitled *"Investigating the Nexus Between MMP-2/TIMP-3-LRP-1 and Its Modulation by PDE Inhibitors for a Therapeutic Target in Triple Negative Breast Cancer"* (₹29 lakhs). This project explores molecular pathways to develop potential therapeutic interventions for aggressive breast cancers.

She also serves as Co-PI of a DSTBT, Govt. of West Bengal-funded project on *"Trojan Horse Type Vesicular Drug Carriers for Targeted and Controlled Drug Delivery Against Cancer"* (₹27 lakhs), focusing on innovative nanotechnological approaches to enhance cancer drug efficacy and safety.

Additionally, Dr. Biswas heads an ANRF (formerly DST-SERB)-funded project on *"Repurposing Phosphodiesterase Inhibitors in Breast Cancer"* (₹29 lakhs).

Prof. Jayanta Kumar Biswas is leading a UGC-DAE funded (₹9.0 lakh) three-years project entitled *"Ecotoxicological Assessment of silver Nanoparticles in a Model Food Chain of Freshwater Ecosystems: A Mechanistic Exploration."*.

Faculty News

Sponsored Research Projects

Dr. Supratim Mandal. Assistant Professor, Department of Microbiology is presently spearheading several significant research initiatives.

Dr. Mandal is leading one three-year major project, funded by ICMR (₹45 lakhs), entitled "*A Rational Approach towards the Development of Dimetallic Assemblies as Metallo β-Lactamase Inhibitors against Multi-drug Resistant Biofilm Forming Bacteria with Mechanistic Aspects.*"

Another three-year major project of Dr. Mandal (PI), which is funded by ANRF (formerly DST-SERB), Govt. of India (₹38 lakhs), focuses on the "*Development of Glucosamine-Based Schiff Base complexes of 3d Transition Metals as Promising Anti-biofilm Agents Against ESKAPE Pathogens and Their Multi Drug Resistant Clinical Isolates*".

Additionally, Dr. Mandal is overseeing a three-years project funded by DST-BT, Govt. of WB (₹14 lakhs), that centers on the "*Design, synthesis, and characterization of copper(II) and zinc(II) complexes supported by glucosamine Schiff base ligands: A Rational Approach Towards The Exploration of Their Potential Anti-bacterial and Anti-biofilm Activities Against Biofilm Producing Pathogens".*

Prof. Debjani Nath (PI) **and Dr. Kakali Bhadra** (Co-PI) of the department of Zoology are currently implementing an ICMR, Govt. of India funded project entitled "*Formulation, pharmacokinetic and pharmacodynamic characterization of intranasal Bacoside A solid lipid nanoparticles to combat brain ischemic stroke in rat model*" with a total funding allocation of ₹65 lakhs.

Prof. Jishu Naskar of the department of Biochemistry and Biophysics is leading a three-years ANRF, Govt. of India funded (₹24 lakhs) project entitled "*A systematic survey of peptide based-molecular entities to recognize the non-canonical G-quadruplex nucleic acid structure and its biomedical applications*".

Prof. Swati De, is leading a three-years DST-BT, Govt. of WB funded (₹12.5 lakhs), research scheme entitled "*Trojan-horse type vesicular drug carriers for targeted and controlled drug delivery against cancer*".

Prof. Samares Pal, Dept. of Mathematics is leading a three-years DST-SERB sponsored Research Project entitled "*Complexities in the dynamics of antipredator chemical defense in marine ecosystems*" with a total funding of ₹32 lakhs.

Dr. Swagata Ghosh, Assistant Professor, Dept. of Molecular Biology & Biotechnology is leading a CSIR Project (ASPIRE) titled "*Multiomics and molecular approaches in understanding the regulation of lipid homeostasis and a remodelled lipidome during myco-microbial interactions, using Candida albicans as the model fungus*" with a total funding of ₹12.5 lakhs.

Prof. Sudipta Pal, of the department of Physics is leading a three-years UGC-DAE-CSR, Govt. of India funded (₹10 lakhs) Collaborative Research Scheme (CRS) entitled "*Magnetic, dielectric and magnetocaloric properties of nonmagnetic ions doped multiferroic* $GdFeO_3$".

Dr. Sk Tofajjen Hossain of the department of Microbiology is leading one DST-BT, Govt. of WB funded (₹14 lakhs) three-years project entitled "*Examining the antimicrobial potential trigonelline–BSA nanoparticles against Pseudomonas aeruginosa and Staphylococcus aureus : Exploring quorum-sensing regulated molecular mechanisms impacting biofilm formation and Virulence".*

Prof. Sumit Mukharjee of the department of Political Science is leading one Indian Council of Historical Research, Govt. of India funded two-years project entitled "*Embryonic Nationalism in the Calcutta High Court in the Nineteenth Century 1862-1885"* with a total funding of ₹14 lakhs.

Prof. Parthasarathi Mukhopadhyay of the department of Library and Information is leading one ICSSR, Govt. of India funded 1 year project entitled "*Categorizing Indian Research Publications in Social Sciences by Sustainable Development Goals: Designing a Machine Learning based Automated System"* with a total grant of ₹7.0 lakhs.

Prof. Tarun Kumar Mondal, of the Department of Geography successfully completed a ICSSR, Govt. of India funded (₹11.5 lakhs) two-years project entitled "*Opportunities for women entrepreneurs in floriculture: A study of Nadia and Purba Medinipur Districts in West Bengal, India*" during March, 2025.

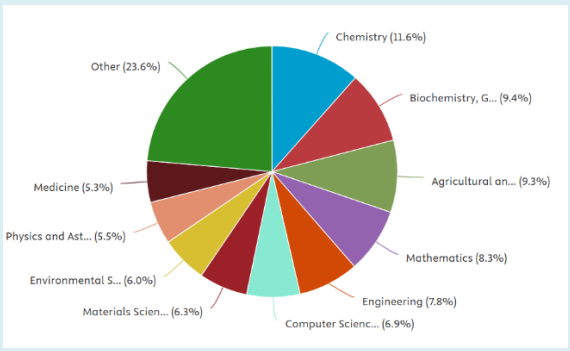
Prof. Angshuman Bagchi is leading a DBT, Govt. of India funded project for the development of "*Bioinformatics Infrastructure Facility Centre",* at the University of Kalyani, for a period of five-years with a total grant of ₹72 lakhs.

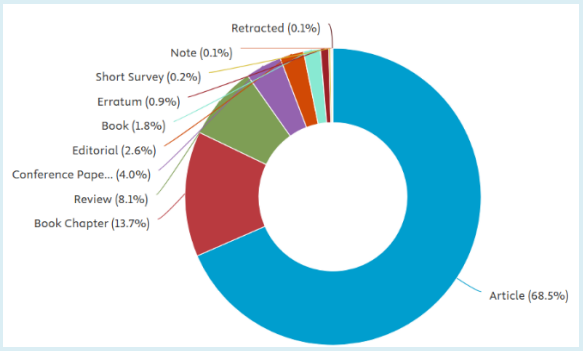
Prof. Bagchi is also overseeing a major collaborative initiative as the Coordinator of a National Network Project with a total funding of ₹65 lakhs, for a period of five-years. The project involves Dr. Rituparna Sinharoy and Dr. Susmita Roy from IISER-Kolkata as Co-Pls. Beyond its core research objectives, the project has fostered academic outreach through the launch of a distinguished webinar series titled "*Interdisciplinary Approaches on Modern Biology*." This series brings together eminent scientists from around the world to share their research and insights across diverse domains of modern biology. Further details of the initiative, including recordings of the webinars, are available on YouTube: https://www.youtube.com/@BIFCentreUniversityofKalyani

R&D Highlights

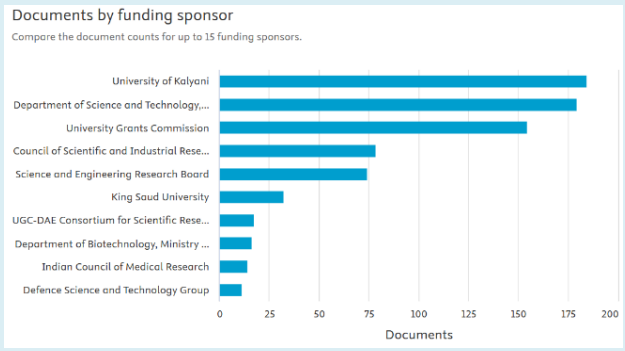
University Research Publications

Over the years, the research publication output of the University of Kalyani demonstrates remarkable diversity, productivity, and institutional influence across the scientific landscape, as indicated by its profile in global database such as Scopus. Research teams from multiple departments have published studies in reputed international journals, further solidifying the university's status as an institution with over 850 total publications during the last one year. A significant proportion of the publications span multiple disciplines, with Chemistry leading at 11.6%, followed by Biochemistry and related biological sciences at 9.4%, and Agricultural and allied sciences at 9.3%. Other prominent fields include Mathematics (8.3%), Engineering (7.8%), Computer Science (6.9%), Materials Science (6.3%), Environmental Science (6.0%), Physics and Astronomy (5.5%), and Medicine (5.3%). Notably, the "Other" category comprises 23.6%, reflecting interdisciplinary ventures and fields that extend beyond traditional departmental lines.

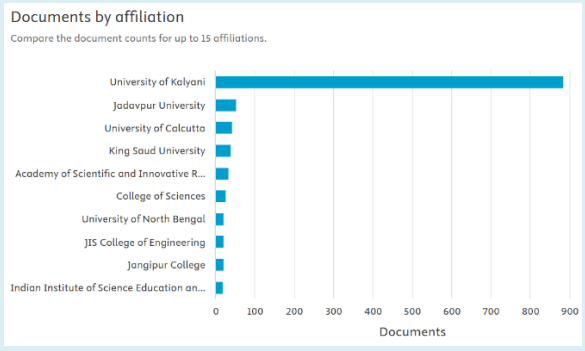




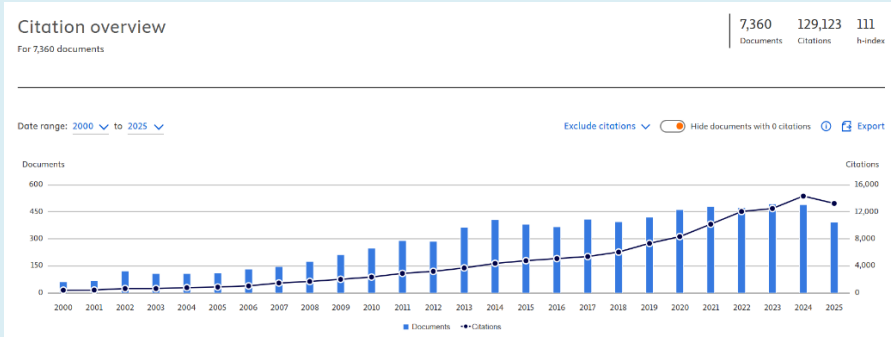
The output is heavily weighted toward peer-reviewed articles, which constitute 68.5% of all publications, underscoring the university's commitment to high-impact scholarly communication. Additional publication types include book chapters (13.7%), reviews (8.1%), conference papers (4.0%), editorials (2.6%), and books (1.8%), with a smaller representation from errata, surveys, notes, and retracted items. This range of document types signals an active academic environment that values both dissemination of original research and contributions to comprehensive reviews and academic books.



University of Kalyani itself is the principal funder of the research, complemented by substantial funding from national agencies such as SERB-DST, UGC, CSIR, DBT, the UGC-DAE Consortium, ICMR, and the Defence Science and Engineering Group, along with contributions from various international and state-level funding. This wide spectrum of funding sources underscores the strong backing for the University's research initiatives and significantly enhances both the quality and volume of scholarly outputs.



The affiliated output overwhelmingly indicates the University's strong collaborative engagements with leading institutions such as Jadavpur University, the University of Calcutta, King Saud University, and the Academy of Scientific and Innovative Research. These partnerships underscore the University's robust research leadership and its central role in driving high-quality scholarly publications.

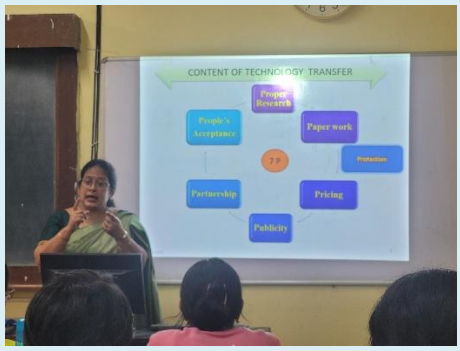


Finally, the citation overview for the University's scholarly documents provides a clear picture of its academic impact and growth trajectory over recent years. The graph reveals a steady and marked increase in the number of citations and research documents published by the University of Kalyani. This pattern demonstrates both the escalating productivity and the rising recognition of the university's work in global academic circles.

R&D Highlights

Incubation Centre

The Incubation Centre at the University of Kalyani provides a dynamic platform for fostering innovation, entrepreneurship, and start-up development among students and faculty. Its mission focuses on nurturing early-stage ideas and transforming research-driven concepts into viable ventures with minimal risk, supported by mentorship, technical resources, and access to industry networks. The centre offers modern laboratory spaces, co-working areas, and regular training sessions, enabling multidisciplinary project development and commercialization. Through knowledge events, grant facilitation, and single-window support for intellectual property, the centre has helped advance several start-up initiatives across science, technology, and commerce. The Cell also operates a **Food Testing & GI Certification Laboratory** offering certificate courses, internship opportunities, and food testing facilities.



Recently the Food Testing & GI Certification Laboratory conducted its inaugural six-month Internship Programme (March–August 2025), under the recently developed *Institutions Innovation Council* (*IIC*). Eleven postgraduates in Food Nutrition, Microbiology, and Botany were selected for the intensive 10-credit, 335-hour program that combined theoretical courses, hands-on laboratory training, and project-driven learning.

The 10-credit, 335-contact hour programme combined theoretical instruction, practical laboratory training, and project-based learning, covering:

- Proximate analysis and microbial testing of food samples.
- NABL-accredited laboratory protocols and quality assurance systems.
- Regulatory standards including FSSAI, HACCP, and ISO/IEC 17025:2017.

- Internal calibration, measurement uncertainty, and documentation systems.
- Product development using natural botanical materials.

Each intern has completed an innovative product development project based on plant resources collected from the Kalyani University Biodiversity Educational and Conservation Park, including formulation, nutritional evaluation, and quality assessment, culminating in a project report and viva-voce.

The initiative directly supports the Innovation Council's goal of developing skilled professionals for the food sector, illustrating the Incubation Cell's commitment to technology transfer and industry-focused education. Overall, the programme set a model for future skill-based internships and strengthened the link between university research and professional practice.

Intellectual Property Rights (IPR) Cell

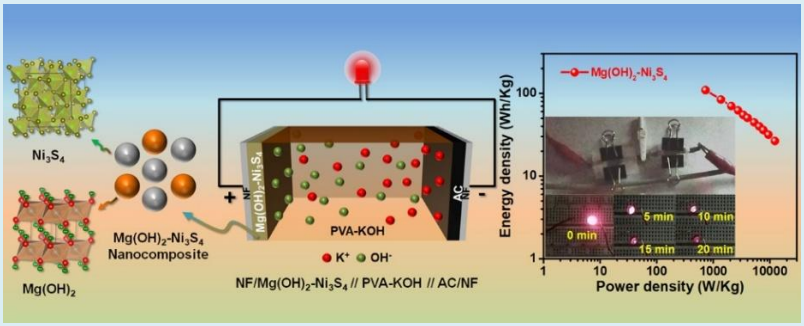
The Intellectual Property Rights (IPR) Cell was established at the University to manage its expanding intellectual output and oversee all activities related to the creation and protection of intellectual property. The Cell provides comprehensive support to researchers in securing and enforcing various forms of IPR, including patents, copyrights, trademarks, and industrial designs. One of its key achievements has been the development and finalization of the **Kalyani University IPR Policy 2025**, which now offers a clearly defined framework for addressing all IP-related matters within the University and in collaborations involving external stakeholders. The policy is publicly accessible on the University's website.

Following patents have been filled from the University of Kalyani in 2025:

1. *A novel biofertilizer & method of preparation thereof,* by Keka Sarkar & Ankika Bhakat, (National) F.N: 202431064352
2. *Process of low-cost homebased gynaecological infection detection* by Solanki Sarkar, Arka Bagchi & Arunima Biswas, (National) Novelty established; PoC developed
3. *Low dose nanodiamond sildenafil formulation as Anti-cervical cancer drug* Analava Bera, Arunima Biswas & Gautam Pramanik, (National) Novelty established; PoC developed
4. *Adhesive free, painless removal, waterproof wound healing strips* Kaustav Majumder, Mandira Mukherjee & Neera Sen Sarkar, (National) Novelty established; PoC developed

R&D Success Stories

Illuminating the Future: High-Performance $Mg(OH)_2$–Ni_3S_4 Nanocomposite for Next-Generation Energy Storage

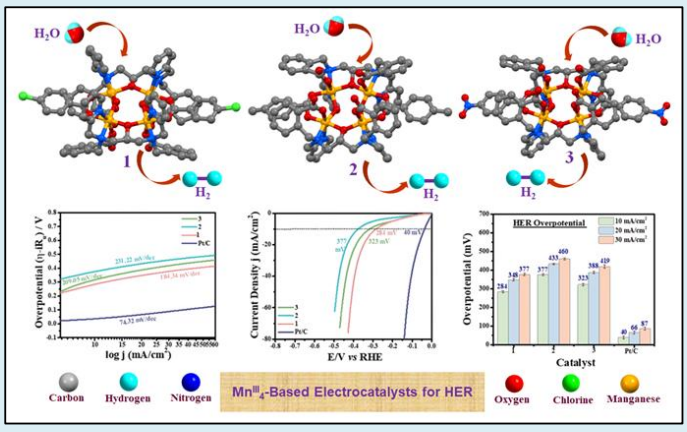


In the pursuit of sustainable and efficient energy storage, researchers are constantly exploring new materials that combine high performance with safety and environmental compatibility. A recent breakthrough from our research team brings this vision closer to reality.

Abu Sayed Mondal, doctoral student of Dr. Arabinda Karmakar of the department of Physics in association with Prof. Subhratanu Bhattacharya and Dr. Astam K Patra of the department of chemistry successfully developed a bimetallic metal–organic framework-derived $Mg(OH)_2$–Ni_3S_4 nanocomposite, a novel electrode material for next-generation supercapacitors, using a simple two-step process. Characterization studies revealed that the composite possesses a hierarchically porous structure with a substantial surface area—key features that enable excellent charge storage and transfer. What makes this discovery remarkable is the synergistic interaction between Mg^{2+} and Ni^{2+} ions. While Mg^{2+} itself is non-electroactive, its presence enhances the redox activity of Ni^{2+}, resulting in superior electrochemical performance compared to conventional Ni_3S_4-based materials. Electrochemical tests showed impressive results: the new electrode achieved a specific capacitance of 3316.7 F/g at 1 A/g in 1 M KOH solution. The asymmetric supercapacitor device ($Mg(OH)_2$–Ni_3S_4//AC) demonstrated a specific capacitance of 274.7 F/g, retaining 88.3% capacity after 10,000 cycles, with an energy density of 109.1 Wh/kg at a power density of 729.2 W/kg. In a simple yet striking demonstration, two such devices connected in series were able to light up a red LED for nearly 20 minutes—a small but powerful testament to their potential. This innovation marks a significant step forward in developing high-performance, eco-friendly supercapacitors for the future of clean energy. The work was published in the ***Journal of Energy Storage***, in February 2025 (Vol **114**, page 115732)

Novel Bimetallic Cu(II) Compounds: A Promising Breakthrough Against Multidrug-Resistant Pseudomonas aeruginosa

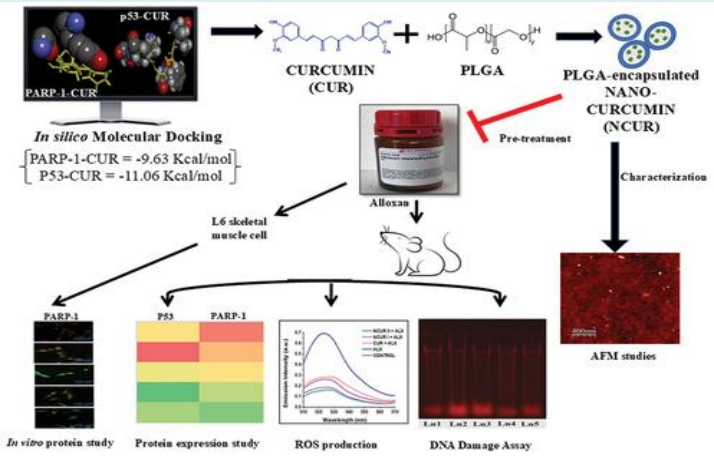
Novel Mn_4 Molecular Clusters Pave the Way for Efficient Hydrogen Generation In the global quest for clean and sustainable energy, the development of efficient and affordable electrocatalysts for water splitting remains a scientific challenge. Prof. Manindranath Bera and his group of the department of chemistry have recently reported a breakthrough in this field through the design and synthesis of a new class of manganese-based molecular clusters that exhibit remarkable hydrogen evolution reaction (HER) performance. The study introduces three innovative concave-shaped Mn_4 cluster compounds $Na[Mn_4(L)2(\mu\text{-}O)(\mu\text{-}OH)(\mu\text{-}p\text{-}O_2CC_6H_4(Cl))_2](ClO_4)_2(CH_3OH)(H_2O)$(1) ,$Na[Mn_4(L)_2(\mu\text{-}O)(\mu\text{-}OH)(\mu\text{-}p\text{-}O_2C\ C_6H_4(CH_3))_2](ClO_4)_2(CH_3OH)(H_2O)_2$ (2) and $Na[Mn_4(L)_2(\mu\text{-}O)(\mu\text{-}OH)(\mu\text{-}p\text{-}O_2CC_6H_4(NO_2))_2](ClO_4)_2$ (H_2O) (3). These compounds were meticulously characterized using advanced techniques including FTIR, UV–Vis, PXRD, FESEM, and single-crystal X-ray crystallography. The structural analysis revealed a unique rectangular Mn_4 core, interconnected through oxide, hydroxide, and para-substituted benzoate bridges, forming highly stable molecular frameworks.



Interestingly, the clusters exhibited both ferromagnetic and antiferromagnetic interactions, contributing to their distinctive electronic properties. Electrochemical studies demonstrated excellent catalytic activity for HER, achieving low overpotentials of 284, 377, and 323 mV and impressive stability under continuous operation. Complementary density functional theory (DFT) analyses revealed that the Mn(III)–Ooxide–Mn(III) linkage serves as the active catalytic site responsible for efficient hydrogen evolution. This work marks the first successful demonstration of $Mn(III)_4$-based molecular clusters as high-performance HER electrocatalysts. The discovery opens exciting avenues for cluster-engineered materials in renewable hydrogen production and sustainable energy technologies.The work was published in the ***Journal of Materials Chemistry A***, (2025, Vol **13**, 16575-16595).

R&D Success Stories

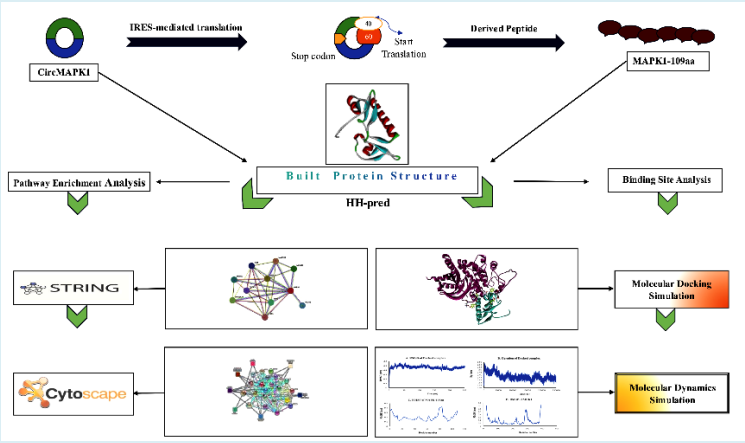
Nano-Curcumin: A Breakthrough from University of Kalyani in Combating Food-Additive Induced Diabete



In a pioneering study researchers from the University of Kalyani have developed a nano-curcumin (NCUR) formulation that could revolutionize the management of food-additive-induced diabetes and genotoxicity. The research team, led by Dr. Asmita Samadder from the Department of Zoology, designed a novel poly(lactide-co-glycolide) (PLGA)-encapsulated nano-curcumin delivery system that enhances the stability, solubility, and bioavailability of curcumin—a natural compound derived from turmeric known for its antioxidant and anti-diabetic properties.

This study demonstrated that NCUR significantly delays diabetes onset by reducing oxidative stress, genotoxicity, and mitochondrial dysfunction, while also improving glucose metabolism and insulin sensitivity in animal models. The nanoformulation exhibited effective binding with key regulatory proteins, p53 and PARP-1, both crucial in DNA repair and cell survival mechanisms. Notably, NCUR was shown to cross the blood-brain barrier, maintaining normal glucose homeostasis and protecting against alloxan-induced cellular damage—a common model for food additive–related diabetic complications. The findings highlight the therapeutic promise of nanotechnology-based natural compounds for managing metabolic disorders. This innovative work from Kalyani's research team marks an important step toward developing safe, plant-based, and efficient nano-nutraceuticals for diabetic care and prevention. The study was published in ***Colloids and Surfaces A: Physicochemical and Engineering Aspects*** in April 2025, (Vol. 710, page 136230)

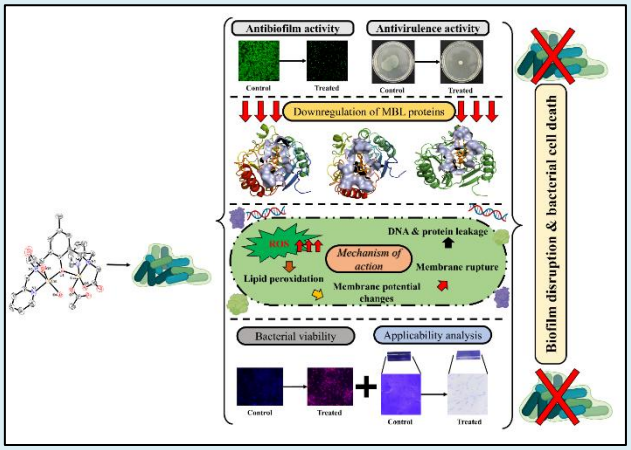
Unveiling MAPK1-109aa: A Novel Protein from Circular RNA with Therapeutic Potential Against Gastric Cancer



In an exciting breakthrough from the Department of Biochemistry and Biophysics, University of Kalyani, researchers have uncovered the first-ever structural and functional analysis of an unusual protein, MAPK1-109aa, encoded by a supposedly non-coding circular RNA (hsa_circ_0004872). Circular RNAs (circ RNAs), once dismissed as "junk," are now recognized as critical regulators in cancer biology. Remarkably, some circ RNAs can code for short functional proteins — MAPK1-109aa being one such example. This protein plays a protective role against gastric cancer by binding to MEK1, thereby preventing activation of the MAPK1 signalling pathway, which is crucial in tumour progression. The Kalyani team, led by Prof. Angshuman Bagchi, employed advanced molecular modelling, docking, and molecular dynamics simulations to decipher how MAPK1-109aa interacts with MEK1 at the atomic level. Their results revealed that MAPK1-109aa binds more strongly to MEK1 than MAPK1 itself, effectively halting the phosphorylation cascade responsible for cancer onset. Further bioinformatics and pathway enrichment analyses showed that MAPK1-109aa may also influence neurodegenerative and metabolic pathways, suggesting broader therapeutic relevance. The study, published in the Journal of Molecular Graphics and Modelling (Elsevier, 2025), highlights the immense potential of circ RNA-derived proteins as novel anti-cancer targets and establishes MAPK1-109aa as a promising therapeutic lead for future cancer treatment strategies.

R&D Success Stories

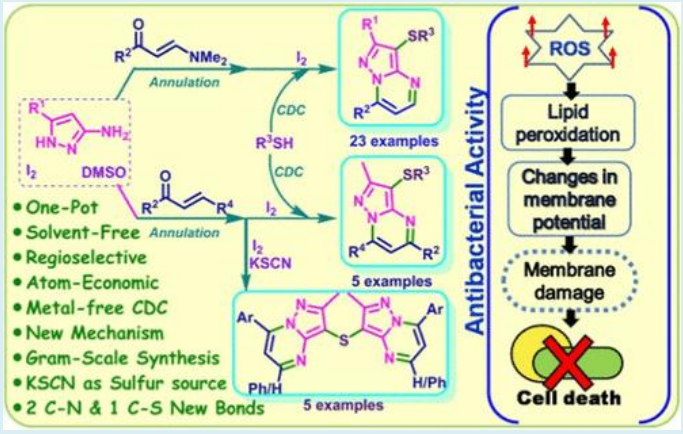
Novel Bimetallic Cu(II) Compounds: A Promising Breakthrough Against Multidrug-Resistant Pseudomonas aeruginosa



In a remarkable advancement toward combating antimicrobial resistance, Dr. Supratim Modal and his group of the department of microbiology in association with Prof., Manindranath Bera and Dr. Sk Imran Ali of the department of chemistry have discovered a new class of biologically active bimetallic Cu(II) compounds that act as potent antibiofilm agents and metallo-β-lactamase (MBL) inhibitors against clinically isolated multidrug-resistant Pseudomonas aeruginosa (Pa-CI-1).

The study introduces three specially designed Cu(II) complexes—$[Cu_2L(H_2O)(Cl)]\cdot H_2O$ (1), $[Cu_2L(H_2O)(NO_3)]\cdot H_2O$ (2), and $[Cu_2L(H_2O)(CH_3CO_2)]\cdot H_2O$ (3)—built around a unique ligand, 2,6-bis[N-{N-(carboxymethyl)-N-(pyridylmethyl)amine}methyl]-4-methylphenol (H_3L). These complexes were synthesized with an unsymmetrical coordination design, enabling fine-tuning of the Cu centers' electronic environment to enhance antibacterial efficacy. Through nitrocefin assays, all three compounds demonstrated strong inhibition of MBL activity at half the minimum inhibitory concentration (½ MIC). Molecular docking studies revealed their robust binding with key MBL-producing proteins—VIM-1, SPM-1, IMP-1, AmpC, and NDM-1—with VIM-1 showing the strongest interaction. Among the three, compounds 1 and 3 exhibited outstanding antibacterial activity, with MIC values of 200 µg/mL and 150 µg/mL, respectively. When combined with commercial β-lactam antibiotics such as amoxicillin, cefotaxime, and ceftriaxone, these compounds showed remarkable synergistic effects, effectively restoring antibiotic potency. This pioneering research highlights the immense potential of Cu-based metallo-drug systems as next-generation antibacterial and antibiofilm agents, offering new hope in the global fight against antibiotic-resistant pathogens. The study was published in ***Chemistry – A European Journal*** in May 2025, (Vol. **31**, page e202501313)

Potent Antibacterial Agents: Synthetic 3-Sulfenyl Pyrazolo[1,5-a]pyrimidines Offer a Novel Solution to Drug-Resistant Bacterial Infections



The rise of bacterial resistance to antibiotics has created an urgent need for new therapeutic approaches, especially for severe infections where conventional treatments may fail. Dr. Avik Bagdi and his group of the department of chemistry have developed an innovative synthetic method for producing 3-sulfenyl pyrazolo[1,5-a]pyrimidines, compounds demonstrating strong antibacterial properties.This iodine-catalyzed strategy utilizes amino pyrazoles, enaminones or chalcones, and thiophenols through an intermolecular cyclization followed by a cross-dehydrogenative sulfenylation process. The method is highly regioselective, offering practical access to a wide range of 3-sulfenyl pyrazolo[1,5-a]pyrimidines with varied functionalities. The technique also permits the synthesis of bis(pyrazolo[1,5-a]pyrimidin-3-yl)sulfanes using potassium thiocyanate (KSCN) and direct conversion from acetophenone. Mechanistic studies have revealed that the C–H sulfenylation proceeds along a radical pathway, involving the formation of 3-iodo pyrazolo[1,5-a]pyrimidine as an active intermediate. Biological evaluations have confirmed that sulfenyl pyrazolo[1,5-a]pyrimidines are highly effective against the pathogens Pseudomonas aeruginosa and Staphylococcus aureus; notably, pyrazolo[1,5-a]pyrimidine and sulfinyl pyrazolo[1,5-a]pyrimidine analogs lack this antibacterial activity. The antibacterial effect stems from the compounds' ability to induce reactive oxygen species (ROS) accumulation and lipid peroxidation, which leads to disruption of membrane potential and increased interactions with membrane-associated proteins, ultimately causing loss of cell integrity and bacterial membrane damage. Moreover, sulfenyl pyrazolo[1,5-a]pyrimidines have been shown to enhance the efficacy of ciprofloxacin, a commercial antibiotic, suggesting their potential as adjunctive or alternative therapies against resistant bacterial strains. The study was published in ***ACS Applied Bio Materials*** in Marchy 2025, (Vol. **8**, page 3254)

IQAC

The Internal Quality Assurance Cell (IQAC) at Kalyani University is a key institutional body dedicated to fostering continuous improvement in academic and administrative processes. Its core mandate is to ensure the systematic enhancement of teaching, learning, and research quality through regular monitoring, feedback collection, and best practice dissemination.

IQAC coordinates the preparation of Annual Quality Assurance Reports (AQAR), organizes faculty development programs, and promotes adoption of new pedagogies—including ICT-enabled learning environments. It facilitates stakeholder feedback, implements comprehensive audit systems, and works closely with university departments to refine curricula and intensify research focus. Through workshops, training sessions, and quality circles, IQAC contributes to the overall institutional development while aligning with national accreditation standards and higher education benchmarks.

During the 1st half of 2025, the IQAC successfully executed several key activities to enhance academic and administrative standards. This included the scrutiny of 19 Career Advancement Scheme (CAS) applications, comprising 18 teachers and 1 officer. IQAC coordinated the collection of Annual Quality Assurance Reports (AQARs) for the academic years 2020–21 through 2023–24 from all academic departments and most administrative centres. Efforts continue with NAAC to facilitate submission of pending AQARs.

Significant workshops organized by IQAC include a sensitization program on February 11, 2025, attended by the Hon'ble Vice-Chancellor, which guided Heads of Departments through the AQAR preparation process. On April 28, 2025, IQAC conducted a workshop on "Issues in Implementing NEP 2020 in the Undergraduate Curriculum" for the Undergraduate Board of Studies and affiliated college faculty, featuring expert lectures to orient stakeholders with new educational reforms.

From May 27 to June 2, 2025, IQAC, in partnership with the Centre for Information Resource Management (CIRM), hosted an online Faculty Development Programme titled "From Chalkboard to Chatbot: Integrating AI into the Teaching-Learning Process," enhancing faculty readiness for AI-enabled education. These initiatives reflect IQAC's active role in continuous institutional quality improvement, faculty capacity building, and alignment with national educational standards at the University of Kalyani.

Memorandum of Understanding (MOU)

MoU between the University of Kalyani (KU) and ICAR{National Bureau of Fish Genetic Resources (ICAR-NBFGR)

A new partnership between the University of Kalyani and ICAR-National Bureau of Fish Genetic Resources (NBFGR), Lucknow establishes a robust framework for collaborative research and training in aquatic sciences. The objectives are clear: both organizations will actively cooperate to elevate the quality of research and capacity building through joint training, exchange programs, seminars, workshops, and conferences.

This collaboration opens access for faculty, scientists, and students to facilities and expertise at both KU and NBFGR. The sharing of research infrastructure, library, and digital resources under a mutually agreed framework ensures the best use of advanced resources available at both institutions. There is also a commitment to work closely on shared research interests—launching and executing joint research projects and publishing outcomes in reputable international journals. The initiative will enable exchange of academic and training materials, streamlining opportunities for knowledge and resource sharing.

The main areas of collaboration focus on:

- Ecological and germplasm research, with a priority on aquatic ecosystem management
- Fish biodiversity and germplasm conservation
- Evaluation and risk assessment of indigenous and exotic fish germplasm, including fish health monitoring

Through these efforts, the partnership aims to accelerate scientific discovery, resource conservation, and sustainable management practices in the aquatic biosciences. This landmark agreement is expected to significantly strengthen both research output and professional training, enhancing regional and national capabilities in aquatic ecosystem and biodiversity management.

Students' Corner

Student Achievements

Sourav Panda, a B.P.Ed 3rd Semester student from the Department of Physical Education, brought laurels to the University of Kalyani by clinching the Champion title at the prestigious Swami Vivekananda Physical Education Excellence Award Competition, held at the Government Physical Education College for Women, Hooghly. Sourav excelled in the Knowledge Test based on his course syllabus, delivered a compelling speech on "Harmonious Development – An Idea of Swami Vivekananda," and showcased cultural talent in solo performance.

Dr. Ashis Saha, alumnus from Prof. Jyoti Prasad Saha's lab of the Department of Physics has been working as a Visiting Scientist at the Physics and Applied Mathematics Unit (PAMU), ISI Kolkata, from January 2025.

Amit Dey, research scholar of Prof. Susanta Sarkar, department of Physical Education secured the AIFF D Certificate (D-License) in football through the 7-day workshop organized by All India Football Federation (AIFF) during 18 – 23 May, 2025.

Sayoni Dam, scholar of Dr. Asmita Samadder, secured 3rd Position in e Poster presentation at International Symposium on Global Trends in Health, Technology and Management: GTHTM 2025

Dr. Rinku Sarkar, alumnus from Prof. Sudipta Pal's lab of the Department of Physics received the Outstanding Paper Presentation Award in the 7th regional Science and Technology Congress during January 2025.

Madan Ghosh, research scholar of Prof. Susanta Sarkar, department of Physical Education secure to qualify in the Six-weeks Certificate Course in Volleyball organized by NS-NIS Sports Association of India (SAI).

Dr. Solanki Sarkar, alumnus from Dr. Arunima Biswas's lab of the Department of Zoology becomes the Team Lead Scientist Scientist at Invictus Oncology, Delhi, India.

Banani Bhattacharjee, scholar of Dr. Asmita Samadder, secured 2nd Position in e Poster presentation at International Symposium on Global Trends in Health, Technology and Management: GTHTM 2025

Dipanjan Biswas, research scholar of Prof. Sudipta Pal of the Department of Physics received the Outstanding Paper Presentation Award in the 7th regional Science and Technology Congress during January 2025.

Debanjan Chakraborty, Lipika Mondal, and Rachaita Chatterjee research scholars from the Ergonomics and Occupational Physiology Laboratory, Department of Physiology, received an outstanding oral presentation at MEDICON on 27th April, 2025, under the guidance of Dr. Subhashis Sahu.

Arnob Chakrovorty, research scholar of Dr. Asmita Samadder, secured 3rd place in poster presentation at International Symposium on Global Trends in Health, Technology and Management: GTHTM 2025

Dr. Arka Bagchi, alumnus from Dr. Arunima Biswas's lab has received the opportunity to work as a ICMR Research Scientist at AIIMS Kalyani. He is also a team member of Faecal Microbiota Transplantation (FMT) in Irritable Bowel Syndrome (IBS).

Rishita Dey, research scholar of Dr. Asmita Samadder, of the Department of Zoology secured 1st Place in Oral Presentation at International Symposium on Global Trends in Health, Technology and Management: GTHTM 2025

Tania Mitra research scholar under Dr. Subhashis Sahu from the Ergonomics and Occupational Physiology Laboratory, Department of Physiology, secured 1st position on poster presentation at UN Brahmachari Socio-MEDICON-2025 on 7th June, 2025.

Sports News

The University of Kalyani demonstrated a dynamic and commendable presence in numerous inter-university sports events from January to June 2025, underscoring its dedication to nurturing athletic excellence alongside academic achievement. The Department of Physical Education played a pivotal role, actively organizing and participating in a wide array of sporting competitions and physical activity programs, thereby fostering the holistic development of students and cultivating a vibrant sports culture both on campus and in the wider community.

Kho-Kho (Women) Participation

During the East Zone Inter University Kho-Kho (Women) Tournament held from 6th to 8th February 2025 at Vinoba Bhave University, the University of Kalyani's women's team participated with enthusiasm and competitive vigour. Their involvement contributed significantly to the vibrant sporting atmosphere amongst 36 participating universities, highlighting Kalyani University's strong commitment to promoting traditional and nationally cherished sports.

Cricket (Men) Competitions

Kalyani University's men's cricket team demonstrated strong competitive performance in the East Zone Inter University Cricket Tournament conducted by KIIT University, Odisha, from 11th to 22nd February 2025. The team advanced to the finals, securing notable victories including a convincing 10-wicket win over OP Jindal University and a key win against Burdwan University with a score of 279 runs. This run highlighted their cricketing skills and teamwork at the zonal level.

Mountaineering Camp 2025

Date & Venue: 17th to 20th February, Shushunia Pahar, Bankura

This camp provided students an opportunity for adventure and physical endurance training in natural mountainous terrain, enhancing leadership skills, team bonding, and outdoor survival techniques.

East Zone Inter University Handball Tournaments (Men & Women)

The University of Kalyani actively participated in the East Zone Inter University Handball Tournaments for both men and women during the 2024-25 sports season. These tournaments were organized by Berhampur University and KIIT University, Odisha, held in February and March 2025. Kalyani University's teams demonstrated competitive spirit and commitment, representing the university among other prominent institutions in the region.

Sports News

Annual Athletic Meets (22-23rd February, 2025)

The Annual Athletic Meet held on 22nd and 23rd February 2025 at the University of Kalyani was a significant event in the university's sports calendar. It featured a wide array of track and field competitions with enthusiastic participation from students across affiliated colleges and departments. The event promoted physical fitness, competitive spirit, and sportsmanship, serving as a vital platform for discovering and nurturing athletic talent within the university community.

This meet laid the groundwork for the 57th Annual Athletic Meet held in March and emphasized the university's ongoing commitment to fostering sportsmanship and holistic development among students through well-organized and spirited athletic contests. Faculty, coaches, and university staff supported the event, ensuring smooth execution and a motivating environment.

57th Annual Athletic Meets 2025 (5-6th March, 2025)

The 57th Annual Athletic Meet of the University of Kalyani was successfully held on the 5th and 6th of March, 2025. This prestigious event saw extensive participation from students across various affiliated colleges and university departments. It featured a wide array of track and field competitions designed to showcase the athletic talents and competitive spirit of the participants.

The meet was inaugurated with great enthusiasm and was marked by the presence of esteemed guests from the sports fraternity, including notable athletes who inspired the participants. During the two-day event, athletes competed vigorously in races, jumps, throws, and relay events, highlighting their dedication and preparation.

This Annual Athletic Meet serves as a crucial platform for identifying promising athletes who may represent the university in regional and national-level competitions. It also fosters a culture of fitness, sportsmanship, and holistic development among the student community.

The event was efficiently managed by the Department of Physical Education, with strong support from university faculty and coaches, ensuring smooth execution and a motivating environment for all participants.

Overall, the first half of 2025 marked a vibrant and multi-dimensional phase for sports and physical education at Kalyani University. The Department of Physical Education remained committed to providing students with diverse platforms for physical development, competitive success, and adventure activities, fostering a culture of fitness and wellness on campus.

Central Library

The Central Library of the University of Kalyani has demonstrated remarkable growth and innovation during the period 1 April 2024 to 31 March 2025. The report highlights major infrastructural upgrades, technology integration, expanded resources, user-centred services, and future-ready planning, positioning the library as a vital academic and research center for the university community.

Infrastructure Improvements and Accessibility

- Significant renovations were completed, including the installation of a ramp and elevator to improve accessibility for users. These enhancements reflect the library's focus on creating a comfortable and inclusive environment for all members of the academic community.
- The total library floor area is 2,805 sq. m, supporting extensive reader and research activity.

Library Resources and Technology Integration

- The library is fully automated using the Koha Library Management System and RFID technology, streamlining management, organization, and delivery of library services.
- Holdings as of March 2025 include:
  - Books: 1,64,319 volumes
  - Bound Periodicals: 10,420 volumes
  - University Theses: 4,052 (with 3,348 available via Shodhganga)
  - Print Journals: 26 Indian and 5 foreign titles
  - Subscribed Online Journals: Valued at approximately ₹1,18,27,630
  - Subscribed Databases: Valued at approximately ₹28,77,268
  - Access to premier electronic resources including IEEE, Science Direct, Wiley, Scopus, Indiastat.com, EPWRF India Time Series, and more.

Innovative Library Services and User-Centric Initiatives

- Introduction of facilities such as self-checkout book drop machines, RFID-enabled entry/exit points, and library kiosks.
- Creation of open reading and noise zones for collaborative study, indoor games, and yoga sessions for wellness.
- Launch of faculty research visibility analytics (based on SCOPUS), vertical extension of book racks for better space management, and sustainable practices like recycled furniture and reduced paper use.
- Engagement of library trainees and structured internship programs based on On-the-Job Training (OJT) Model.
- Implementation of a dedicated LGBTQ collection display, Alumni Network creation, Third-Age Library Initiative for retired faculty/staff and senior citizens, and monthly Study Circle Discussions on current academic themes.

Completed and Ongoing Projects

- Completion of software migration and RFID-based automation projects for efficient services.
- Stock verification initiatives covering 60% of holdings, first time since 2022, and digital databases for circulation history and lost books.
- Uploading of 256 university theses on Shodhganga.
- Ongoing projects include a visual stack room map for easy navigation, NDLI content contribution, renovation of departmental libraries, and regular content and engagement updates through a YouTube channel.

Future Plans

- Continued focus on NDLI content contribution, infrastructure upgrades, alumni and user engagement, new value-added courses on research tools and digital library creation, library internship expansion, and sustained support for academic innovation.
- Projects under development emphasize easy navigation, digital integration, green practices, and lifelong learning support for university stakeholders.

Overall, the Central Library remains dedicated to fostering knowledge sharing, research excellence, and community engagement through modernized infrastructure, robust resources, sustainable practices, and a user-centred approach.

Biodiversity Educational & Conservation Park

The Kalyani University Biodiversity Educational Conservation Park (KUBEC Park) continues to flourish as a hub for conservation, ecological research, and experiential learning. The KUBECP was initially established as Herbal Garden in 2017 with funds received from the National Medicinal Plant Board, Ministry of AYUSH, Govt. of India. It is also funded by the West Bengal Biodiversity Board and the Department of Environment, Government of West Bengal. The Park integrates themed sections—including a Herbal Garden, Arboretum, Butterfly Garden, Spice Garden, Underground Tuber Crop Garden, and more. The Herbal Garden is presently home to >85 species of medicinal plants (herbs & shrubs), the Arboretum to >76 tree species with documented medicinal properties, the Spice Garden to ~20 species, the Butterfly Garden to ~15 plant species, the Underground Tuber Crop Garden, the Trellis Garden to > 20 species, the Palm Grove to 15, the Ficus Garden to 6 and the Bambusetum to 7 species, the Dye Garden to 6 species and the Minor Fruit Orchard to 20 species.

Innovative initiatives like the Birthday Plot encourage students, scholars, and staff to contribute to green cover by planting saplings on their birthdays. The park also serves as a living classroom, welcoming exposure visits and tours from various educational institutions, thereby fostering ecological awareness from school to postgraduate levels.

KUBEC Park routinely hosts distinguished guests and experts—both national and international—who engage in collaborative projects and skill development programmes, further strengthening research and outreach. The park's active educational and conservation activities, plant diversity management, and public engagement highlight its pivotal role in advancing the university's vision for ecological sustainability and biodiversity education.

Ms. Nisha Goswami, IFS, DFO South 24 Pgs. Division, Sundarbans planting a sapling in the KUBEC Park

PG students of Bethune College on a visit to KUBEC Park

Centre for Women's Studies

The Centre for Women's Studies (CWS) at the University of Kalyani, a UGC-recognized academic unit, played a pivotal role in promoting gender equality and women's empowerment in line with India's commitment to the United Nations Sustainable Development Goals (SDGs).

Celebration of International Women's Day 2025

In collaboration with departments including Bengali, Hindi, Ecological Studies, History, Environmental Science, and Rural Development Studies, the Centre organized a major two-day event on March 11-12, 2025, themed "Women's World in the 21st Century: Accelerating Action towards Sustainability", on the occasion of *International Women's Day 2025*. The event featured an international conference, an exhibition of women entrepreneurs, and a documentary screening, sponsored by Rashmi Group and BRAIPRD, West Bengal.

Day 1 (March 11, 2025) commenced with the exhibition inauguration by Hon'ble Vice-Chancellor Prof. Kallol Paul. The Craft and Food Fair comprised 24 stalls showcasing handicrafts, jewellery, traditional saris, and food products by women entrepreneurs from Self-Help Groups and certificate courses across West Bengal. The inaugural session at Vidyasagar Sabhagriha included an inaugural song by students, guests' felicitation, lamp lighting, welcome and inaugural speeches by key dignitaries including Prof. Dr. Kakali Dhara Mandal (Director, CWS) and the Vice-Chancellor, Prof. Dr. Kallol Paul. The Vice-Chancellor also published the Abstract Volume. Speeches were delivered by Deans of Arts & Commerce and Science faculties, followed by a vote of thanks. Ms. Avery Sengupta and Ms. Nandini Banerjee anchored the session.

The plenary session featured notable speakers such as Dr. Susmita Choudhuri (BRAIPRD) addressing rural women's status, Dr. Nilanjana Dasgupta, IAS on empowerment challenges, Dr. Aparna Bandyapadhyay reviewing women's advancement, and Prof. Suparna Sanyal (Uppsala University) on sustainable antibiotic treatment. A documentary "Cracking the Glass Ceiling" by Mr. Rajaditya Bandyapadhyay was screened. Parallel academic sessions presented 34 research papers. Over 1,000 participants, including students, scholars, faculty, and locals, attended.

Day 2 (March 12, 2025) included another plenary session with speakers like Prof. Udaybhanu Bhattacharya (Gender Budgeting), disability rights activist Ms. Kuhu Das, Ms. Mahashweta Biswas (BDO, Haringhata) on inspiring empowerment, and Dr. Jayati Chakraborti (University of Arizona) discussing pancreatic tumor microenvironment remodeling. Sixty-six papers were presented by diverse institutional and international scholars in parallel sessions chaired by professors and officials.

The valedictory session at Vidyasagar Sabhagriha included certificate distribution and received wide media coverage. Women entrepreneurs expressed satisfaction with sales and customer interactions during the exhibition, highlighting the event as a meaningful platform for rural women's economic empowerment.

A book fair focusing on human studies complemented the academic vigour of the event.

In summary, the International Women's Day 2025 event at University of Kalyani was an enriching convergence of academia, governance, activism, and entrepreneurship. It catalyzed discussions on gender equality and sustainable development, inspired future empowerment pathways, and reinforced community bonds, affirming the University's commitment to these causes.

National Service Scheme (NSS)

The NSS Cell of University of Kalyani witnessed remarkable achievements and impactful community engagement during the first half of 2025. NSS volunteers demonstrated exceptional dedication to national service, community development, and environmental conservation. Here are the highlights of some major activities:

Pride of the Nation: NSS Volunteer Shines at Republic Day Parade

It is a matter of immense pride and glory to announce that **Ms. Anisha Ghosh**, a student of the Department of Physical Education and dedicated NSS volunteer, represented University of Kalyani at the prestigious **76th Republic Day Parade** in New Delhi on January 26, 2025.

Ms. Anisha's path to this national honor involved a rigorous multi-stage selection process:

- **University Level:** Initial selection at University of Kalyani
- **Zonal Competition:** Successfully qualified representing the university zone
- **State Level:** Overcame multiple competitive stages
- **National Selection:** Final qualification for the Republic Day Parade

Annual Special Camp: Seven Days of Transformative Service

Dates: January 17-23, 2025
Venue: Lichutala Vivekananda Adarsha Vidyalaya, Saguna
Participants: Nearly 100 NSS Volunteers

The Annual Special Camp 2025 was a complete residential program that provided our volunteers with an immersive community service experience. For seven days, our dedicated volunteers lived, worked, and served together, creating lasting bonds and meaningful change.

Cleanliness Drives

NSS KU volunteers led comprehensive sanitation initiatives, transforming the campus and village spaces through systematic cleaning, waste management, and beautification projects.

Educational Programs

Volunteers organized literacy sessions, tutoring support, career guidance, and digital awareness programs for local children and community members, helping bridge educational gaps.

Cultural Activities

Through street plays, folk performances, and cultural exchanges, our volunteers connected with the local community, promoting social themes and celebrating traditional arts.

Social Service Initiatives

Direct community engagement activities included health awareness camps, support to elderly residents, promotion of government welfare schemes, and needs assessment for future interventions.

World Environment Day (5th June 2025): Planting Seeds of Change

Distinguished resource persons delivered engaging lectures on critical environmental topics:

The lectures significantly enriched students' understanding of environmental challenges and empowered them to become environmental advocates in their communities.

Moving from awareness to action, NSS volunteers participated enthusiastically in a plantation drive:

•Indigenous and environmentally beneficial saplings were planted across campus

•Volunteers took responsibility for nurturing and monitoring the plants

•Community members joined, expanding the impact beyond campus and a commitment to long-term green cover enhancement was initiated

Events

29th January 2025

Hon'ble Vice-Chancellor, Prof. Kallol Paul, inaugurated the Kalyani University Stall (No. 200) at the 48th International Kolkata Book Fair.

12th February 2025

ICSSR-sponsored Two-Day International Conference on "*Addressing Women's Health with Special Emphasis on Gynaecological Issues: A Potential Path for Vision Viksit Bharat@2047*". The conference was organized by the Project Team of Vision Viksit Bharat@2024, University of Kalyani.

21st February 2025

The University solemnly observed International Mother Language Day at the Bengali Department to commemorate linguistic and cultural diversity.

27th February 2025

The Two Days National Conference on Contemporary Issues in Rural Development. The event was organized by Srikrishna College in collaboration with the Department of Economics, University of Kalyani. The inaugural session was graced by the presence of Shri Kumar Rana, Honorary Fellow, Asian Development Research Institute, Patna.

Events

28th February 2025

The University celebrated National Science Day 2025 with great enthusiasm. The event was organized by DESKU-EIACP P.C., R.P., University of Kalyani

3rd March 2025

The University Biodiversity Educational & Conservation Park and the Food Testing & GI Celebration Laboratory under the Incubation Cell of the Institution's Innovation Council jointly organized a One Day Seminar on "Biodiversity 4 Food: Bioprospecting, Food Testing & Sustainability".

5th March 2025

The University of Kalyani came alive with energy and enthusiasm as it hosted the 57th Annual Athletic Meet 2024-2025

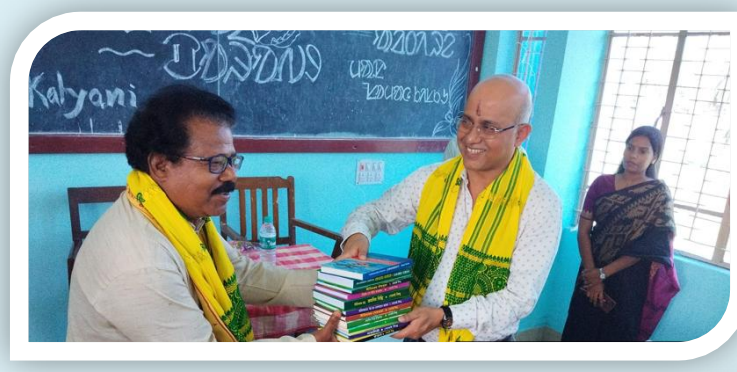
11th March 2025

The University celebrated International Women's Day 2025. A Gender Sensitization Programme organized by the Centre for Women's Studies in collaboration with the Departments of Hindi, Bengali, Ecological Studies, Rural Development Studies, Environmental Science and History.

12th March 2025

BASANTA UTSAB, organized by the Department of Bengali. The event was graced by the presence of faculty members, researchers, students and employees of the University.

Events



12th March 2025

1st Distinguished Lecture on the Santali BAHA Festival, organized by the Department of Santali. The event was graced by the eminent Santali writer, Sri Somai Kisku.

28th March 2025

One day State Level Seminar on 75 Years of the Indian Constitution: A Legacy of Liberty, Equality and Fraternity organised by Department of Lifelong Learning & Extension in association with Affiliated Law College

11th April 2025

The Centre for Culture Studies, University of Kalyani, in collaboration with ISKCON, jointly organized a Seminar on Lifestyle Management, along with the Department of Folklore, Department of Physical Education, Department of Bengali, Department of Political Science, and the NSS Unit of the University.

2nd May 2025

On the occasion of the birthday of world-renowned filmmaker Satyajit Ray, the Journalism Certificate Course of the Bengali Department of Kalyani University organized the publication of the book 'Aparajit Satyajit' (Volume Five) and a world-class discussion titled "News-Literature-Cinema and Satyajit".

7th May 2025

Two-day international symposium titled "Nazrul and Jibanananda in 125 Years" organized by the Bengali Department of Kalyani University. Renowned writer Anita Agnihotri Mahasaya was present as the chief guest at the event.

Events

9th May 2025

The 165th birth anniversary of world poet Rabindranath Tagore was celebrated with respect at the University.

26th May 2025

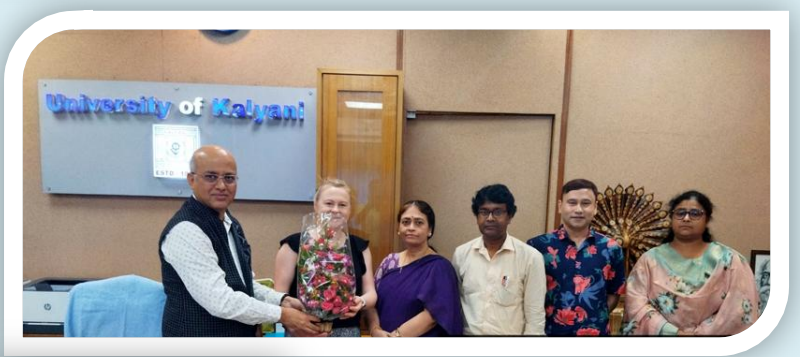
A National Seminar on "Role of India in the Contemporary World Order", organized by the Department of Political Science of the University.

29th May 2025

Two-Day National Conference on "Addressing Challenges and Showing Resilience Against Climate Change in the Eastern Region of India." The event was graced by the presence of Mr. Abhishek Aacharya, Director, ED, MoEF & CC, Govt. of India, Mr. Kamalakanth P., Addl. Principal Chief Conservator of Forests (APCCF), WB; Ms. Nameeta Prasad, Joint Secretary, Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India; and Dr. Kalyan Rudra, Chairman, Pollution Control Board, Govt of WB.

17th June 2025

Ms. Karolina Tomeczyk, Senior Specialist from the Faculty of Biology and Environmental Protection, University of Lodz, Poland, met with the Hon'ble Vice-Chancellor of the University of Kalyani



21st June 2025

International Yoga Day celebration in University Gymnasium, organised by Department of Physical Education.

University in Media

টেস্ট দলের নতুন নেতা শুভমানই

আজকাল

অভিনেতা মুকুল দেবের অকাল প্রয়াণ

কল্যাণী ও লখনউ–এর মৎস্য গবেষণা কেন্দ্র আইসিএআর–এনবিএফজিআর–এর মধ্যে পাঁচ বছরের একটি মউ স্বাক্ষরিত হয়েছে। এই চুক্তির মাধ্যমে বিলুপ্তপ্রায় ও দুর্লভ মৎস্য প্রজাতির সংরক্ষণ ও গবেষণায় নতুন দিশা খুলবে। বিশ্ববিদ্যালয়ের উপাচার্য অধ্যাপক কল্লোল পাল জানান, এই উদ্যোগে ছাত্রছাত্রী ও গবেষকেরা উপকৃত হবেন। মৎস্য প্রকল্পের সামগ্রিক উন্নয়ন ঘটবে। লখনউ–এর গবেষণা কেন্দ্রের কর্তা ড. কাজল চক্রবর্তীর কথায়, যৌথভাবে তৈরি হবে 'অভয় পুকুর', যেখানে মাছ সংরক্ষণ ও জিনগত গবেষণা চলবে। বিশেষ ক্ষেত্রে কল্যাণীর গবেষকেরা লখনউ গবেষণা কেন্দ্রে কাজের সুযোগও পাবেন। অনুষ্ঠানে ছিলেন বিশ্ববিদ্যালয়ের বিভিন্ন আধিকারিক ও অধ্যাপকবৃন্দ। ছবি: আজকাল

বর্তমান

১২ মার্চ ২০২৫

কলকাতা ও শহরতলি

কল্যাণীতে আন্তর্জাতিক আলোচনা সভা

ংবাদদাতা, কল্যাণী: কল্যাণী শ্ববিদ্যালয়ে মঙ্গলবার থেকে শুরু য়েছে দু'দিন ব্যাপী আন্তর্জাতিক ালোচনাসভা। নারীদের প্রতিষ্ঠা ও ারী ক্ষমতায়নের লক্ষ্যে শীর্ষক এই ালোচনা সভায় উপস্থিত ছিলেন ইডেনের অধ্যাপিকা সুপর্ণা সান্যাল হ আরও অনেকে। এদিন একটি থ্যচিত্রও দেখানো হয়। অনুষ্ঠানের উদ্বোধন করেন বিশ্ববিদ্যালয়ের উপাচার্য অধ্যাপক কল্লোল পাল। তিনি বলেন, নারী দিবসের অনুষ্ঠান ইঙ্গিত দেয় এখনও অনেক কিছু করা বাকি আছে। যেদিন পৃথিবী থেকে 'নারী দিবস' আয়োজনের গুরুত্ব হারিয়ে যাবে, সেদিন হয়তো আমরা সঠিক জায়গায় পৌঁছব। তাই আজকের আলোচনাসভা খুবই প্রাসঙ্গিক।

कल्याणी विवि में पत्रकारिता प्रशिक्षण कार्यशाला

कल्याणी. नदिया जिले के कल्याणी विश्वविद्यालय में 10 दिवसीय पत्रकारिता कार्यशाला की शुरुआत हुई. कार्यशाला का उद्घाटन करते हुए विश्वविद्यालय के कुलपति प्रोफेसर कल्लोल पाल ने कहा : पत्रकारों का काम समाचारों को सटीक, सुचारु रूप से व संवेदनशीलता के साथ प्रस्तुत करना है. मुझे उम्मीद है कि इस कार्यशाला में प्रतिभागी व्यक्तिगत निर्णय से परे होकर खबर के महत्व को समझेंगे. कार्यशाला में विभिन्न समाचार पत्रों, टीवी चैनलों, पोर्टलों के

সুনীতাকে আনতে মহাকাশে রওনা নাসার রকেটের

আজকাল

নির্বাচনী প্রক্রিয়াকে মজবুত করতে পরামর্শ চায় কমিশন

নারী ক্ষমতায়ন ও প্রতিষ্ঠার লক্ষ্যে কল্যাণী বিশ্ববিদ্যালয়ে হল দু'দিনের আন্তর্জাতিক আলোচনাসভা। পাশাপাশি প্রকা হয় নারীবাদ নিয়ে লেখা ১০৫টি সংক্ষিপ্ত প্রবন্ধের সংকলন অনুষ্ঠানের উদ্বোধন করেন উপাচার্য–অধ্যাপক কল্লোল পাল। বিশ্ববিদ্যালয়ের সেন্টার ফর উওমেন্স স্টাডিজের ডিরেক্টর অ কাকলি ধাড়া মণ্ডল। আলোচনাসভায় দু'দিনে ৯২ জন গ নারীবাদ নিয়ে পেপার তৈরি করেছেন। নারী ক্ষমতায়নের দেখানো হয় একটি ডকুমেন্টারি ফিল্মও। একটি প্রদর্শনীর অ করা হয়, যেখানে ২৮টি স্টল রয়েছে। ছবি: আজকা

सत्ता के दमनचक्र को भेदती हैं नागार्जुन और युद्ध प्रसाद की रचनाएं: डॉ. अरुण

कल्याणी विश्वविद्यालय

» 'नागार्जुन और युद्ध प्रसाद मिश्र के रचना कर्म' विषय पर अंतर्राष्ट्रीय संगोष्ठी आयोजित

संगोष्ठी के दौरान मंच पर उपस्थित अतिथिगण।

कल्याणी : हिंदी विभाग, कल्याणी विश्वविद्यालय के प्रेमचंद सभागार में 'नागार्जुन और युद्ध प्रसाद मिश्र के रचना कर्म' विषय पर एकदिवसीय अंतर्राष्ट्रीय संगोष्ठी का आयोजन किया गया। उद्घाटन सत्र में उपस्थित विश्वविद्यालय के कला एवं वाणिज्य संकाय की डीन प्रो. सावित्री नंदा चक्रवर्ती, विशिष्ट अतिथि नेपाल प्रज्ञा प्रतिष्ठान के सदस्य सचिव डॉ. धन प्रसाद सुवेदी, मुख्य अतिथि के रूप में कलकत्ता विश्वविद्यालय की पूर्व प्रो. डॉ. चन्द्रकला पाण्डेय ने दीप-प्रज्वलित कर संगोष्ठी का उद्घाटन किया और कार्यक्रम के आरंभ में विभाग के विद्यार्थी आकाश चौधरी ने नागार्जुन की कविता 'शासन की बन्दुक' और शोध छात्रा दीपाली ओरांव ने युद्ध प्रसाद मिश्र की नेपाली कविता का पाठ किया। स्वागत भाषण विभाग की एसोसिएट प्रोफेसर डॉ. विभा कुमारी ने किया।

उद्घाटन सत्र में प्रो. डॉ. सावित्री नंदा चक्रवर्ती ने नेपाली और हिन्दी भाषा के सम्मिलन को बेहद महत्वपूर्ण बताया। डॉ. धन प्रसाद सुवेदी ने भारत और नेपाल के सांस्कृतिक महत्व को रेखांकित किया। प्रो. चन्द्रकला पाण्डेय ने नागार्जुन और युद्ध प्रसाद मिश्र की कविताओं के तुलनात्मक सन्दर्भों को उद्घाटित किया।

तकनीकी सत्र के अध्यक्ष पश्चिम बंगाल राज्य विश्वविद्यालय के हिन्दी विभागाध्यक्ष प्रो. अरुण होता ने नागार्जुन और युद्ध प्रसाद मिश्र की कविताओं में व्यक्त मुक्ति की चेतना को रेखांकित करते हुए कहा कि 'सत्ता हर काल में दमनकारी होती है।' दोनों रचनाकारों के परिवर्तनकारी कामनाएँ एक तरफ आम आदमी की दयनीय दशा और दूसरी तरफ सत्ता के दमन चक्र से लड़ाई करती हैं। वक्ता के रूप में उपस्थित नेपाल संस्कृत विश्वविद्यालय के प्राध्यापक प्रो. देवी नेपाल ने दोनों कवियों की कविताओं में वैचारिक समानता, मानवीय चेतना और जागरण का संवाहक बताया। एस. डी.आई. कॉलेज के हिन्दी विभागाध्यक्ष डॉ. सत्य प्रकाश तिवारी ने कहा कि नेपाली समाज की संरचना को समझने के लिए युद्ध प्रसाद मिश्र को पढ़ना जरूरी है। डॉ. नवराज लम्साल ने दोनों कवियों को सत्ता का प्रतिरोधी बताया। संगोष्ठी में देश भर के विभिन्न कॉलेजों, विश्वविद्यालयों से आए शिक्षकों और शोधार्थियों ने शोध-पत्र वाचन किया। इनमें डॉ. शारदा बैनर्जी, डॉ. कलावती कुमारी, डॉ. अनीता ठाकुर, डॉ. दीपक कुमार, डॉ. रीता चौधरी, वंदना गुप्ता, पंकज कुमार शाह आदि शामिल रहे। इसकी अध्यक्षता विभाग की प्रोफेसर डॉ. विभा कुमारी ने की।

संगोष्ठी का संचालन विभाग के शोधार्थी अनूप कुमार गुप्ता और अध्यापक डॉ. इबरार खान ने किया। विभागाध्यक्ष डॉ. हिमांशु कुमार के धन्यवाद ज्ञापन से कार्यक्रम संपन्न हुआ।

2025

University in Media

নদিয়া

আনন্দবাজার পত্রিকা

সৌরাষ্ট্রের পাঠক্রম

অপরাজিত সত্যজিৎ

সত্যজিৎ রায়ের ১০৫তম জন্মদিনে শুক্রবার কল্যাণী বিশ্ববিদ্যালয়ের জার্নালিজম সার্টিফিকেট কোর্স থেকে প্রকাশিত হল পঞ্চম খণ্ডের 'অপরাজিত সত্যজিৎ'। সত্যজিৎ-কেন্দ্রিক এই আন্তর্জাতিক আলোচনা সভায় গ্রন্থটির উদ্বোধন করে উপাচার্য কল্লোল পাল জানালেন, "সত্যজিৎ সিরিজ এই বিশ্ববিদ্যালয়ের অন্যতম সম্পদ। শুধু আয়তনেই নয়, মানে ও গুণে যথেষ্টই বড় আমাদের বিশ্ববিদ্যালয়।" পৃথিবীর জিনিয়াসের তালিকায় আলবার্ট আইনস্টাইনের পাশে বসানো হয়েছে সত্যজিৎকে। রুশিরা মনে করে সত্যজিৎ রায় একটি হীরক খণ্ড। ভারতীয় চলচ্চিত্রের আইকন। চলচ্চিত্র পরিচালক গৌতম ঘোষের মতে, সত্যজিৎ সিরিজ তাঁকে জানা ও চেনার ক্ষেত্রে এক জীবন্ত দলিল। প্যারিস বিশ্ববিদ্যালয়ের অধ্যাপক অনন্বর আদিত্য চৌধুরী বলেন, "ফ্রান্সের সিনেমাপ্রেমী সকল মানুষ এক নামে তাঁকে চেনে। তাঁদের কাছে সত্যজিৎ একটা প্রতিষ্ঠান। বিশ্বে যতদিন সিনেমা বেঁচে থাকবে ততদিনই সেই প্রতিষ্ঠান বেঁচে থাকবে।" অভিনেত্রী চৈতী ঘোষালের বক্তব্যে উঠে আসে সত্যজিতের ছবিতে নারীদের প্রসঙ্গ। যা এই সময়ের নারীদেরও এগিয়ে যাওয়ায় অঙ্গীকার রাখে। তিনি জানান, আমাদের নিজেদের জীবন সুরক্ষিত রাখার জন্যে সত্যজিৎ রায়ের ছবিগুলি বারবার দেখা দরকার।

'অপরাজিত সত্যজিৎ' পাঁচটি খণ্ডেরই সজ্জাপনা করেছেন অধ্যাপক সুখেন বিশ্বাস। তিনি বলেন, "প্রাচ্যের উপনিষদীয় শৃঙ্খলা, পাশ্চাত্যের যুক্তিবাদী নিষ্ঠা ও পরিশ্রম-মনস্কতায় বিশাল বটগাছের মতো। শান্ত নিবিড় ছায়া, বাঙালিয়ানার চিরন্তন প্রতিচ্ছবি।" অনুষ্ঠানে প্রায় পাঁচ

The Telegraph online

Saturday, 22 November 2025

HOME | OPINION | INDIA | KOLKATA | WORLD | BUSINESS | SPORTS | MY KOLKATA | ENTERTAINMENT

Home / Topic / Kalyani University

Kalyani University

Published 04.06.25, 11:01 AM

Kalyani University Hosts Climate Change Conference, Sparks Call for Sustainable Action

By Our Correspondent

আনন্দবাজার.com

পশ্চিমবঙ্গ | দেশ | বিদেশ | সম্পাদকের পাতা | খেলা | বিনোদন | জীবন + ধারা | ভিডিয়ো

Anandabazar / Education Career / Kalyani University offers a certificate course dgtl

পর্যটন পেশায় পাখির চোখ হোক লোকসংস্কৃতি ও সমষ্টি উন্নয়ন, পথ দেখাবে কল্যাণী বিশ্ববিদ্যালয়

লোক সংস্কৃতি, পর্যটন এবং সমষ্টি উন্নয়নের বিভিন্ন বিষয় নিয়ে বিস্তারিত পড়ানো হবে। এটি ছ'মাসের কোর্স, সম্পূর্ণ অনলাইনে ক্লাস হবে।

আনন্দবাজার ডট কম সংবাদদাতা

শেষ আপডেট: ০৯ জুন ২০২৫ ১৬:৪৫

The Statesman

MONDAY 26 MAY 2025

PEOPLE'S PARLIAMENT ALWAYS IN SESSION

Kalyani University explores tribal soul of northeast India

BISWABRATA GOSWAMI

KRISHNAGAR, 25 MAY

Rich in oral traditions, indigenous knowledge systems, and vibrant artistic expressions, the tribal cultures of northeast India—particularly those of Assam and Meghalaya—form an essential yet often underrepresented chapter of India's cultural tapestry. In an ambitious academic endeavour to engage with this living heritage, the Department of Folklore, University of Kalyani, recently concluded a week-long Field-work-cum-Workshop from 19 to 25 May, 2025, immersing participants in the folklore, rituals, and social dynamics

of Mayong (famed for its magical and healing traditions), and the Pobitora Wildlife Sanctuary. In Meghalaya, participants engaged with local communities at the Dawki riverfront, Mawlynnong village (Asia's cleanest village), the iconic living root bridges, and the Don Bosco Museum in Shillong—each

respect.

Another moving moment came during a visit to a primary school in Mayong, where young students performed a traditional Bihu dance—highlighting how deeply rooted cultural expression is in everyday village life.

Speaking about the initiative, Prof. Mandal remarked: "This year's field-work was a conscious departure from our usual focus on West Bengal. We aimed to bring our students closer to the rich and relatively unexplored folklore traditions of the northeast, while also incorporating a study of tourism patterns and visitor satisfaction, adding an inter-

---

আনন্দবাজার.com

পশ্চিমবঙ্গ | দেশ | বিদেশ | সম্পাদকের পাতা | খেলা | বিনোদন | জীবন + ধারা | ভিডিয়ো

Anandabazar / Education Career / Kalyani University starts admission for certificate course on Ceramic Design dgtl

সেরামিকের জিনিস বানিয়ে তাক লাগাতে চান? কোর্স করাবে কল্যাণী বিশ্ববিদ্যালয়

ক্লাস শুরু হবে ফেব্রুয়ারি মাসে। সপ্তাহে দু'দিন বিশ্ববিদ্যালয়ের সংশ্লিষ্ট বিভাগের চারুকলা ভবন কমপ্লেক্সে কোর্সের ক্লাস হবে।

আনন্দবাজার অনলাইন ডেস্ক

শেষ আপডেট: ২১ জানুয়ারি ২০২৫ ১৭:৩৯

The Statesman Mon, 26 May 2025 https://epaper.thestatesman.com/c/77433688

আজও স্বমহিমায় তিনি। কল্যাণী বিশ্ববিদ্যালয়ের জার্নালিজম সার্টিফিকেট কোর্স থেকে সত্যজিৎ সিরিজের পঞ্চম তথা শেষ খণ্ড 'অপরাজিত সত্যজিৎ' প্রকাশিত হল। এই খণ্ডটি বিশ্বের ন'টি দেশের ৫৫ জন বিশিষ্ট লেখকের রচনায় সমৃদ্ধ। লেখক তালিকায় সুনীল গঙ্গোপাধ্যায়, পরাণ বন্দ্যোপাধ্যায়, ক্লোরা রোল্যান্ড, পবিত্র সরকারের মতো বিশিষ্ট লেখকরা আছেন। বই প্রকাশ উপলক্ষ্যে সম্প্রতি একটি মনোজ্ঞ আলোচনা সভার আয়োজন করা হয়েছিল। যাঁরা সত্যজিৎ রায়ের ভক্ত তাঁরা তো বটেই, যাঁরা তাঁর বিষয়ে জানতে চান, বইটি সবারই বহু প্রশ্নের উত্তর দেবে।

–নিজস্ব প্রতিবেদন

KU News Letter Committee

Prof. Subhratanu Bhattacharya, Dept. of Physics, Chairperson
Prof. Sujay Kumar Mandal , Dept. of Folklore, Member
Prof. Sabyasachi Chatterjee, Dept. of History, Member
Prof. Susanta Kumar Sarkar, Dept. of Physical Education, Member
Prof. Sudha Gupta, Dept. of Botany, Member
Dr. Supratim Mandal, Dept. of Microbiology, Member
Dr. Tushar Patua, Dept. of Bengali, Member
Dr. Tuhin Mukherjee, Dept. of Business Management, Member
Dr. Srinka Basu, DETS, Member
Mr. Dipansu Mandal, Programmer, CIRM, KU, Member
Mr. Prasun Dutta Roy, From V.C. Secretariat, KU, Member
Dr. Dipa Roy, Deputy Librarian, Central Library, KU, Convener

Management and Editing

Prof. Subhratanu Bhattacharya

Co-Editing

Dr. Supratim Mandal
Dr. Tushar Patua
Mr. Dipansu Mandal
Dr. Dipa Roy

Compilation Design & Layout

Prof. Subhratanu Bhattacharya

For Feedback, Reach us @
Email: kunews2025@klyuniv.ac.in
Website: http://www. klyuniv.ac.in

KU Newsletter Committee
University of Kalyani
Kalyani, Nadia-741235, WB