

# IISER KOLKATA Newsletter



July, 2025

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Indian Institute of Science Education and Research Kolkata (IISERK) is an Institute of National Importance established as an autonomous institute for higher education by the then Ministry of Human Resource Development (now Ministry of Education), Government of India, to promote high-quality education and research in basic sciences.

## Celebration of Institute Foundation Day



The Indian Institute of Science Education and Research Kolkata celebrated its 20th Foundation day on 11th July, 2025. Dr. G. Sateesh Reddy, Former Chief DRDO and Secretary Defence R&D, Adviser to Honble Raksha Mantri, Member National Security Council and President Aeronautical Society of India, graced the event as the Chief Guest. In his inspirational address, Dr Reddy highlighted the significant contributions of the institute in Science Education and Research and further highlighted the need for translational research to achieve Vikasit Bharat 2047.

The open house event with science exhibition organized on this occasion was attended by approximately 1000 students from neighbouring schools with lots of excitement. This impacted to foster curiosity and sparked interest in STEM careers. The Chief guest Dr. Reddy also launched the new BS-MS programme in Computational and Data Science to commence from ensuing academic session. The 20th Foundation Day event of IISER Kolkata was a great success.







## Vigyan Pratibha Teachers' Training Workshop



The Vigyan Pratibha Regional Centre of IISER Kolkata organised the Vigyan Pratibha Teachers' Training workshop; the first phase of Professional Development Workshops for the Science and Mathematics teachers from AECS, KV and JNV Schools of the region of Bihar, Jharkhand and West Bengal, along with teachers from the State Schools of West Bengal. The workshop was from 7th of July to 11th of July, 2025.

The Teacher's training workshops of the Vigyan Pratibha Project (from the Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research, funded by the Department of Atomic Energy) is aimed at Mathematics and Science teachers of Class 8 to Class 10, who are interested in creating a comprehensive learning environment for the students beyond just textbooks.

## IISER Kolkata Secures 7th Rank in Nature Index 2025 (Jan 2024- Dec 2024) Among Indian Academic Institutions



The Indian Institute of Science Education and Research (IISER) Kolkata has been ranked 7th among Indian Academic Institutions in the Nature Index 2025. The Nature Index, which tracks high-quality research publications in leading peer reviewed science journals, reflects IISER Kolkata's growing prominence in cutting-edge scientific research. This accomplishment underscores the institute's commitment to excellence in fundamental science, collaborative and transformative research with impactful publications. The ranking highlights IISER Kolkata's steady rise as a national leader in scientific innovation and academic rigor.

## PMRF Scholars with the Director of the Institute





## IISER Kolkata & CSIR- IICB Signed MOU for Collaborative Research

CSIR-IICB and IISER Kolkata wish to come together to foster research collaboration, and provide opportunity for professional, scholarly and academic interaction in matters relating to Scientific research, Science education and related areas, and to facilitate advancement of knowledge in these areas, based on reciprocity and mutual benefit. CSIR-IICB and IISER Kolkata agree to explore the possibility of engaging in the collaborative research work in a mutually agreeable manner.

## Vigilance Awareness Workshop



IISER Kolkata organized Vigilance Awareness Workshop on 23rd July 2025. Chief Guest & Speaker: Shri Sauranshu Sinha, Deputy Secretary (Vigilance), Ministry of Education, Govt. of India.

## Hands-on workshop on Sanger Sequencing and Fragment Analysis



A two-day on-site workshop titled "Hands-on workshop on Sanger Sequencing and Fragment Analysis" was successfully completed at the Dept of Biological Sciences, IISER Kolkata, in collaboration with Thermo Fisher Scientific and BioApps during 14th-15th July, 2025. The primary focus of the workshop was to provide comprehensive training to the participants on the Sanger sequencing workflow and data analysis, bridging the gap between theoretical knowledge and practical application.

Twenty-six Ph.D students and postdoctoral fellows from the departments of Biological Sciences and Chemical Sciences (IISER Kolkata) attended the workshop, along with medical professionals from AIIMS Kalyani. All participants expressed strong appreciation for the quality and content of the training. The two-day event featured extensive hands-on training and interactive sessions, detailed demonstrations by Dr. Sanjib Dey, Dr. Disha Banerjee, and Mr. Biswajoy Pal from Thermo Fisher Scientific covering the complete sequencing workflow, from sample preparation to data analysis.

These sessions allowed participants to engage directly with advanced sequencing equipment and software tools. Alongside, lectures on Sanger Sequencing, Next Generation Sequencing, and updates on the latest advancements in sequencing technology and bioinformatics were included.

The workshop was an enriching experience for all attendees, equipping them with both technical skills and conceptual understanding necessary for modern molecular biology and genomic research. The workshop concluded with appreciation notes from Prof. Supratim Datta, Head (DBS), and Prof. Amirul I. Mallick (Faculty-in-Charge, Sequencing Facility). The Sequencing Facility gratefully acknowledges the contributions and support of staff members Dr. G. Lekha, Mr. Debabrata Sutradhar, Dr. Soumik Sao, Mr. Sudhansu Maity and Mr. Somnath Halder.

## BS-MS @ IISER Kolkata



**BS-MS @ IISER Kolkata**

Know everything about BS-MS program at IISER Kolkata

IISER Kolkata will be Online on

**JULY 22, 2025 06.00 PM – 07.00 PM**

  **YouTube**

<https://www.youtube.com/IISERKolkata>

<http://meet.google.com/mmr-myyv-kys>

- ☒ Know about How to Join IISERK
- ☒ Know about the Campus life
- ☒ Know about the Fees Structure
- ☒ Placements at IISER Kolkata



Know @ IISER Kolkata was a virtual meeting hosted by the Office of International Relations and Outreach (IRO) to address the Frequently asked questions of the prospective students. The aim of the meeting was to enlighten the prospective students about the Campus life, placements at IISER Kolkata, Fees Structure, Facilities, etc. The meeting was attended by DoIRO, ADoIRO, DoSA, DoAA, ADoAA and Assistant Registrar International Relations and Outreach.

## Faculty Member's Achievements

We are delighted to share that Prof. Alakesh Bisai, Dept. of Chemical Sciences, has been honored with the 'C.N.R. Rao National Prize' by the Chemical Research Society of India (CRSI). Let's join in congratulating Prof. Bisai on this well-deserved recognition.



## Students Achievements



Mr. Abhishek Mandal, a PhD student of the Department of Earth Sciences under the supervision of Dr. Gopala Krishna Darbha, embarked on a remarkable journey to the Arctic in March 2024, marking a historic milestone as the first winter expedition sanctioned by NCPOR for environmental pollutant monitoring. Despite facing numerous challenges posed by harsh Arctic conditions (temperature of minus 45 °C), limited access to resources, and fierce competition for selection, Abhishek was one of only 19 individuals chosen from India for this prestigious expedition. With the IISER Kolkata proposal accepted for the second time, Abhishek ventured once again to the Arctic for the summer expedition in July 2024-2025, affirming the enduring impact of their research in this critical area.

Ms. Jasmine Bezboruah (Roll No.21RS030), from the Department of Chemical Sciences under the supervision of Prof. Sanjio S Zade, has been awarded the Poster Prize by RSC Applied Interfaces at the 16th International Symposium on Functional  $\pi$ -Electron Systems (F $\pi$ 16), held in Jeju, South Korea, from June 29 to July 3.

Her poster was titled: "Pyrazinoquinoxaline Derivatives for Flexible Field-Effect Transistor: Effect of Mechanical Properties of the Crystals on Device Durability."



## Alumni Accolade



Dr. Sachchidanand Prasad has recently joined as Assistant Professor in the Department of Mathematics, Indraprastha Institute of Information Technology, Delhi

Dr. Sachchidanand Prasad earned his PhD under the supervision of Prof. Somnath Basu in the year 2022.



## Seminars, Lectures and Colloquia

[DMS Seminar] Rohan Sarkar (Assistant Research Prof. University of Connecticut) -- Spectrum of Lévy-Ornstein-Uhlenbeck semigroups on  $\mathbb{R}^d$ . Date: Tuesday, Jul 01, 2025.

[Machine Learning Public Lecture] Dr. Saptarshi Pyne (CDS, IISER Kolkata) -- Causal Discovery with Artificial Intelligence. Date: Wednesday, Jul 02, 2025.

[Machine Learning Public Lecture] Dr. Kripabandhu Ghosh (CDS, IISER Kolkata) -- The Curious Case of Artificial Intelligence and the Legal Domain, Date: Thursday, Jul 03, 2025.

[DMS Seminar] Shouryya 'Sony' Mitra (Xavier University, Cincinnati, Ohio, USA) -- Projection-based Multivariate Tests for High Dimensional Data, Date: Thursday, Jul 03, 2025.

[Machine Learning Public Lecture] Prof. Siddhartha Lal (DPS, IISER Kolkata) -- Alphazero : Chess, Complexity and Creativity. Date: Friday, Jul 04, 2025.

[DCS visitor's seminar] Ujjal Sarkar (QTAS) -- Biopharmaceutical Drug Discovery Research & Development Experience, Date: Wednesday, Jul 09, 2025.

[Foundation Day Lecture] Dr. G. Satheesh Reddy (President, The Aeronautical Society of India) -- Evolving Science and Technology Ecosphere, Date: Friday, Jul 11, 2025.

[DBS Seminar] DBS Seminar -- Reconstruction of Pathological Amyloid Polymorphs in vitro for Drug Design and Biomarker Discovery in Alzheimer's and Parkinson's Disease, Date: Wednesday, Jul 16, 2025.

[DPS Seminar] Prof. Rajesh Kumble Nayak -- Meet GW231123. Date: Wednesday, Jul 23, 2025.

[DMS seminar] Prof. Meera Mainkar (Central Michigan University) -- Preserve one, preserve all, Date: Wednesday, Jul 23, 2025.

[(DBS Seminar)] Dr. Dhiman Ghosh (Post Doctoral Fellow at ETH Zurich) -- Reconstruction of Pathological Amyloid Polymorphs in vitro for Drug Design and Biomarker Discovery in Alzheimer's and Parkinson's Disease, Date: Wednesday, Jul 23, 2025.

[DMS Lecture Series] Prof. Debraj Chakrabarti (Central Michigan University) -- The Linear Differential Operators of Complex Analysis, Date: Thursday, Jul 24, 2025.

[DPS Seminar] Dr. Biswajit Sahoo (King's College, London) -- Trace Anomalies along RG Flows and S-Matrix Bootstrap Bounds, Date: Friday, Jul 25, 2025.

[DMS Lecture Series] Prof. Debraj Chakrabarti (Central Michigan University) -- The Linear Differential Operators of Complex Analysis, Date: Monday, Jul 28, 2025.

[DMS Lecture Series] Prof. Debraj Chakrabarti (Central Michigan University) -- The Linear Differential Operators of Complex Analysis, Date: Tuesday, Jul 29, 2025.

[DPS Seminar] Dr. Swagato Banerjee (University of Louisville, Kentucky, USA) -- Lepton flavor violation in the tau sector, Date: Tuesday, Jul 29, 2025.

[DPS Seminar] Prof. Bobby Ezhuthachan (Ramakrishna Mission Vivekananda Educational and Research Institute) --  $Sl(2, \mathbb{R})$  driven 2d CFTs and their holographic duals, Date: Wednesday, Jul 30, 2025.

