



भारतीय प्रौद्योगिकी संस्थान कानपुर
Indian Institute of Technology Kanpur



निदेशक प्रतिवेदन

Director's Report

59^{वाँ} दीक्षान्त समारोह

15 जुलाई 2026

59th CONVOCATION

15 JULY 2026

DIRECTOR'S REPORT

Honorable Dr. Pawan Goenka, Chairperson, Indian National Space Promotion and Authorization Centre (IN-SPACe), Department of Space, Government of India, Honorable Chairperson, Board of Governors of the Indian Institute of Technology Kanpur, Members of the Board of Governors, Members of the Academic Senate, all graduating students and their family members, and members of faculty, alumni, staff and student community: I heartily welcome you all to the fifty-ninth convocation of the Indian Institute of Technology Kanpur. I would also like to congratulate the graduating students and their families on this joyous occasion.

ACADEMIC ACTIVITIES

The Institute is committed to maintaining its teaching quality, academic programs, highly regarded faculty, advanced research facilities, and centers. It continues to nurture bright minds with intellectual skills, courage, and integrity to take on the biggest challenges faced by humankind. I am honoured to share a glimpse of our achievements and activities for this year.

I am happy to inform you that the total number of PhD degrees awarded at this Convocation is 448. In our efforts to encourage outstanding scholars, the Senate has approved the provision for an additional master's degree to be awarded along with a PhD,

subject to fulfilling a defined set of academic requirements. I am pleased to inform you that 58 students are graduating at this Convocation with Master's and PhD joint degrees. I am equally delighted to share that the fourth batch of 492 students of the e-master's programme will be awarded the degree today in this 59th Convocation. In all, 3104 degrees are being awarded at this Convocation with the following details:

GRADUATION DATA

Degree	Number of Recipients
PhD	390
MTech-PhD (Joint Degree)	53
MDes-PhD (Joint Degree)	1
MSR-PhD (Joint Degree)	4
MTech	464
MTech (With Project)	38
MBA	59
MDes	36
MS (by Research)	66
PGPEX-VLFM	40
MSc	186
e-Masters	492
Double Major	35
Dual Degree	107
MS-PD (MS part of the Dual Degree)	28
BTech	852
BTH	23
BTM	5

BS	212
BSH	8
BSM	1
BSc. (EOD)	4
Total	3,104

In keeping with the flexibility that the IIT Kanpur's academic Programme is known for, 281 students are graduating with one Minor, whereas 106 students are graduating with two Minors and 25 students are graduating with three Minors. You will be delighted to know that 4 students are graduating with four Minors. In all, 416 Minors are being awarded. In addition, by spending one additional year at the Institute, 107 undergraduate students are graduating with a Master's degree along with their Bachelor's degree, while 35 of our undergraduate students are graduating with a Second Major. 58 of our postgraduate students are graduating with an additional Master's degree along with their PhD, earned by completing extra credits. Out of 1,247 students of the Bachelor's and Bachelor's-Master's dual degree programmes who are being awarded the degree today, 253 students are graduating with a Distinction (CPI of 8.5 and above). To keep pace with the advancing knowledge in science, technology, and other areas, 24 new undergraduate courses and 64 new postgraduate courses were approved from June 01, 2025 to June 30, 2026.

It is a great pleasure to share that the degrees are being awarded to graduating students at the 59th Convocation today, in both physical and virtual modes. The degrees in the online mode are being issued through an in-house blockchain-driven technology developed at our Institute under the National Blockchain Project. The digital degrees are also being uploaded to the National Academic Depository.

NEW PROGRAMMES & DEPARTMENTS

- Department of Intelligent Systems (IS)
- Kotak School of Sustainability (KSS)
- Direct admission of students with BSc degree into PhD program of Department of Sustainable Energy Engineering (SEE)
- Bachelor of Technology in Intelligent Systems (IS)
- Bachelor in Cybersecurity
- Dual Degree in Biomedical Engineering
- Department of Statistics & Data Science (DSDS)

ACADEMIC INITIATIVES

Undergraduate students can now earn elective credits through external activities like internships, entrepreneurship, etc. Additionally, they can also earn open elective credits by doing select 12-week-NPTEL/MOOC courses.

Dual Degree students are now eligible for 120 days of academic leave in their 9th and 10th semester like MTech. Students.

Exit Option Degree (EOD) is now also available for old UGARC undergraduate students. These students may claim EOD after completion of 300 credits.

Award of MTech/ MDes/MS (by Research)/MBA degree with PhD degree: MS (by Research) degree may be awarded along with the PhD degree to those students who are admitted to PhD programme in sciences directly after a 4-year Undergraduate degree (Earlier the same was applicable only for the engineering departments).

Exit from PhD Programme: MTech/MAR/MDes/MSR/MBA/PG Diploma degree as an exit degree for students registered originally for PhD, is now available for almost all departments.

Doctoral Monitoring Committee (DMC): The DMC shall review the student's thesis progress annually after the fifth year of the PhD programme of the student, and such reports shall be submitted every semester.

COMPREHENSIVE EXAMINATION FOR PHD STUDENTS:

Now, all PhD students must pass the comprehensive examination within four months of completing the minimum coursework credits. (Earlier, it was till either the fourth or the fifth semester, depending upon the qualifying degree of the students.). Students failing the comprehensive examination twice may be shifted to an appropriate exit programme on the recommendation of the DPGC. (Earlier, such cases were recommended for termination).

CENTRE FOR EDUCATIONAL RESEARCH & TEACHING EXCELLENCE (CERTEX)

Since its establishment in January 2025, the Centre for Educational Research and Teaching Excellence (CERTEX) at IIT Kanpur has actively pursued a wide range of initiatives to enhance the quality of teaching and learning across the Institute. Working in close collaboration with academic departments and faculty members, CERTEX has organized several workshops addressing pedagogy and educational innovation, including a Teaching Assistants and Staff Workshop, a Workshop on Modernizing UG Core Courses Laboratories, and a communication-focused workshop titled "Talk, Teach and Transform," in addition to con-

ducting workshops at IIT Jammu in partnership with its Teaching and Learning Centre. To gain deeper insight into students' educational experiences, CERTEX administered a Graduating Students Survey, the findings of which were compiled into a report submitted to the Academic Senate, with the survey now being repeated and complemented by an alumni survey. CERTEX members have also been actively participating in the Institute's Academic Review of undergraduate programmes. To celebrate and disseminate effective teaching practices, CERTEX launched the *Chalk Talk* series featuring conversations with eminent IIT Kanpur teachers, which are published online. CERTEX also collaborates with the Office of the Dean of Academic Affairs to release *Your IITK Academic Compass*, an academic guide for undergraduate students. Further enriching campus life, CERTEX organized the video-making competition "Lights, Action, Teach!" for TAs and staff, with prizes presented on Teachers' Day, and partnered with the Students' Dramatics Club to stage the play *Photograph 51*, centered on the discovery of the structure of DNA.

RESEARCH & DEVELOPMENT

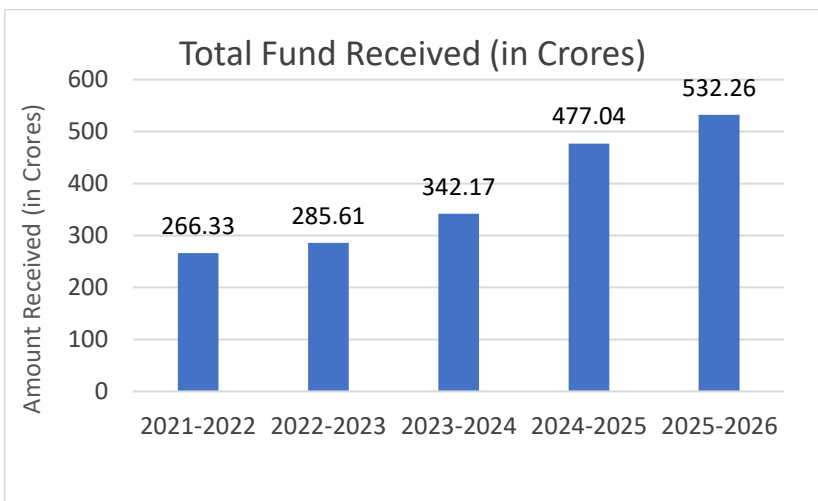
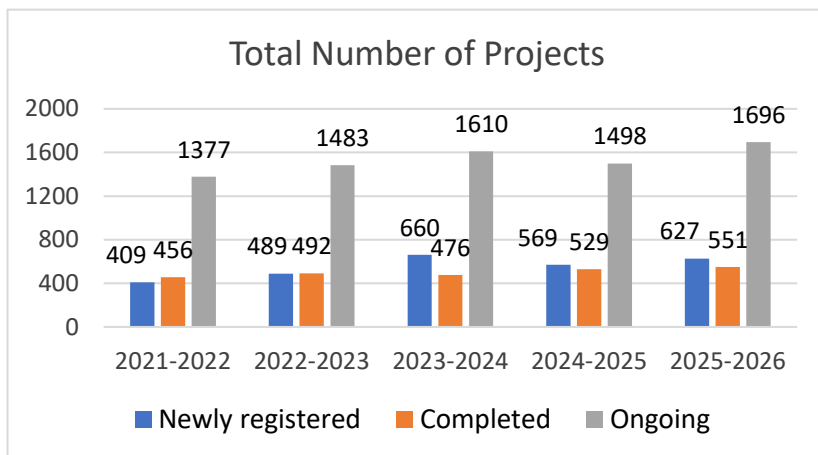
IIT Kanpur has registered steady growth in its research and development activities this year.

RESEARCH HIGHLIGHTS

- 1696 externally funded projects are ongoing with a total sanctioned amount of ₹ 2541.03 crores.
- 346 sponsored projects worth ₹ 518.86 crores sanctioned during 2025-26.
- 281 consultancy projects worth ₹113.45 crores sanctioned during 2025-26.
- During 2025-26, total funds received for sponsored projects are ₹422.69 crores and for consultancy projects ₹109.57 crores.

SPONSORED RESEARCH

A Summary of 5 years



LEADING FUNDING AGENCIES

Funding Agency	Amount Sanctioned (in crores)
Department of Science & Technology (DST)	₹150.06
Anusandhan National Research Founda- tion (ANRF)	₹ 110.14
Aeronautics Research and Development Board (ARDB)	₹60.32
Defence Research and Development Organization (DRDO)	₹35.96
Indian Council of Medical Research (ICMR)	₹15.48

Table capturing five major funding agencies with sanctioned amount

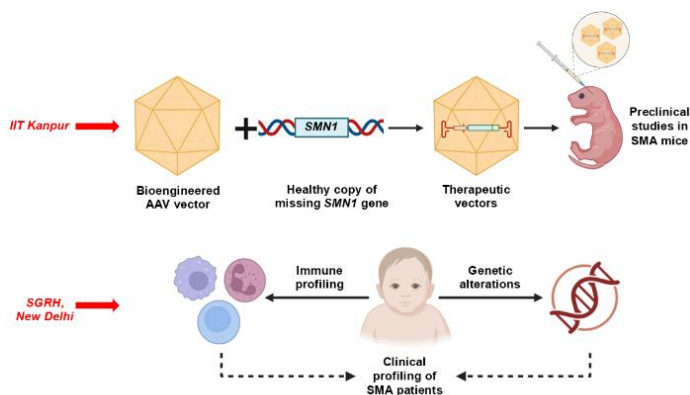
LEADING FUNDING INDUSTRY PARTNERS

Brihanmumbai Municipal Corporation (BMC), HBL Engineering Ltd., RajComp Info services Ltd., Kuppam Area development Authority, Ashoka Buildcon Ltd., Hindustan Zinc Ltd. and Unilever Ltd.

MAJOR PROJECTS SANCTIONED

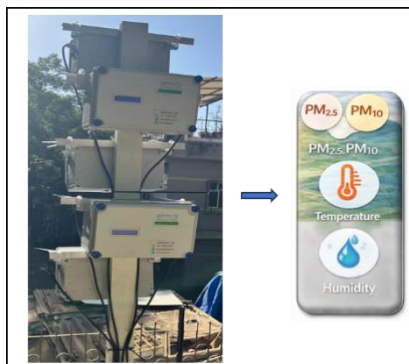
Development of Indigenous Platforms for Gene Therapy of Spinal Muscular Atrophy funded by Anusandhan National Research Foundation

The goal of this project is to design a delivery system using novel AAV vectors carrying a healthy copy of the missing gene (SMN1). Its safety and efficacy in a mouse model of SMA will be evaluated. The engineered AAV vectors are expected to have improved gene transfer and immune-evasive potential, which will facilitate achieving phenotypic improvement at lower dosages, thereby overcoming the current challenges to SMA gene therapy. Additionally, in collaboration with collaborators at Sir Gangaram Hospital, New Delhi, genetic alterations and the immune profile of a large cohort of SMA patients will be assessed providing valuable clinical insights into the role of recipient status in future gene therapy clinical trials.



Mumbai Air Network for Advanced Sciences (MANAS) funded by Brihan Mumbai Municipal Corporation

A recent Air Quality Index of Mumbai exceeding 300 AQI levels indicates severe AIR pollution, with significant spatial variability and strong temporal fluctuations. These factors underscore the need for hyper-local monitoring to enable effective interventions.



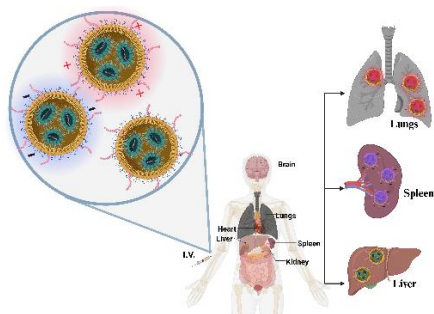
MANAS proposes to set up a strong Decision Support System (DSS) to enable real-time data analysis, visualization, and informed decision-making. The system aims to create a comprehensive, real-time air quality monitoring network capable of hyper-local pollution mapping, enabling timely actions to improve urban environmental management and public health.

Sectoral Research on Textile Policy, Startup Policy and Food Processing Policy for Uttar Pradesh funded by Invest UP

This project seeks to create a consolidated investment promotion roadmap for three priority sectors in Uttar Pradesh: agro-food processing, handloom and textile, and the startup ecosystem. The roadmap will set out strategies to enhance the state's investment attractiveness, strengthen key value chains, and position Uttar Pradesh as a leading destination for domestic and

global investors, offering opportunities for innovation, building industry leadership, high-value job creation, and technology-driven solutions to developmental challenges. The evidence-based study will combine data analysis, stakeholder consultations, and benchmarking with leading states to identify opportunities and challenges unique to each sector.

Spleen SORT RSV-LNPS as mRNA Vaccine Candidates Against Respiratory Syncytial Virus funded by the Department of Biotechnology



Lipid nanoparticles (LNPs) have emerged as a pivotal platform in gene therapy and vaccine development, exemplified by the clinical success of Comirnaty, SpikeVax, and RSV mRNA-1345 vaccines in

2021-2025. For effective activation of the adaptive immune system, LNPs must deliver antigen-encoding mRNA to the spleen.

The RSV vaccine candidates are being developed by implementing Selective Organ Targeting (SORT) LNPs that specifically target spleen-resident immune cells. This spleen SORT RSV-LNPs technology will be established by mapping the functional relevance of 'core-shell' structure of and 'protein-corona' on the LNPs.

Upgradation and Modification of Supersonic Wind Tunnel Facilities at IIT Kanpur funded by Aeronautics Research and Development Board

A Mach 2 supersonic wind tunnel at IIT Kanpur was developed back in 1970, one of the oldest facilities in the country to cater to the needs of DRDO and ISRO. The facility in the past has been used for several fundamental and applied research as well as for academic teaching. With the rising demand for the need for speed, the existing supersonic wind tunnel will be upgraded to push up to Mach 4 with the state-of-the-art diagnostic systems. This will enable the study and detailed understanding of the higher flight regime and will also help train manpower in the field of high-speed testing for the years to come.

6G Research & Standardization funded by Ministry of Electronics and Information Technology

The project is a joint effort by IIT Kanpur and partner institutes designed to drive India's objective of becoming a major player in the telecommunications space. Aligned with 3GPP (3rd Generation Partnership Project) Release 20 and IMT-2030 (International Mobile Telecommunications-2030) vision, the project focuses on advanced 6G technology research to generate essential intellectual property and simulation tools. A primary objective is to secure Standard Essential Patents (SEPs) across global and national forums, including 3GPP, ITU (International Telecommunication Union), and TSDSI (Telecommunications

Standards Development Society, India). Additionally, the initiative translates research into practical wireless solutions for India's telecom, railways and defence sectors. By enhancing the indigenous 5G testbed for algorithm validation and conducting extensive capacity-building programs, 6G-RS aims to foster self-reliance, build a robust expert workforce, and capture a 10% share of global 6G IPRs.

Application of Kirigami Based Metamaterials for Enhancing Interfacial Effects funded by Anusandhan National Research Foundation

Kirigami is a Japanese art that involves introducing strategic cuts into a thin two-dimensional sheet to transform it into stretchable, three-dimensional, auxetic structures upon mechanical loading. Such kirigami-inspired designs have enabled lightweight, strong structures, tunable optical materials, enhanced heat transfer systems, and robotic skins. However, their integration with surface and interfacial phenomena remains largely unexplored. Existing studies primarily exploit mechanical flexibility rather than modifying interfacial behavior itself. Integrating kirigami with soft-matter interfacial effects such as wetting, elastocapillarity, surface instabilities, and nucleation offers opportunities to dynamically control liquid motion, adhesion, heat and mass transfer. Addressing this gap motivates the proposed research.

Collaboration Agreement for the Cyber Security Capability Maturity Model funded by C3i Hub, IIT Kanpur

This project has been awarded to the Centre for Development Intelligent Systems (CDIS) by C3i Hub for developing a compliance-in-a-box system for cybersecurity audits based on companies' information security policies and downstream cybersecurity artifacts. The core technical backbone of our system is a knowledge graph extracted from company documents specifying relationships between entities in the company. Then, an LLM reasons over this knowledge graph to answer questions related to the degree of alignment of the company's policy with the cybersecurity maturity model pioneered by C3i Hub. The first version of this product has been favourably received during testing with multiple organizations. Rollout at scale is expected later in 2026.

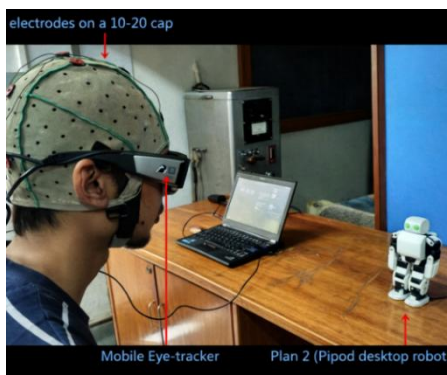
Upgradation of the National Wind Tunnel Facility (NWTF), IIT Kanpur funded by Aeronautics Research and Development Board

The project aims to enhance NWTF's capabilities to meet modern experimental requirements. Key upgrades include the integration of a state-of-the-art model support system, the installation of an advanced tunnel cooling system, an increase in wind speed, the incorporation of high-resolution high-speed cameras, and the high-speed double-pulsed laser system. These enhancements will significantly expand the facility's ability to support a wide range of stakeholders, including DRDO (ADA,

DRDL, ADE, NRB, NSTL), ISRO (VSSC), CSIR-NAL, automotive vehicle industries, public sector undertakings (HAL, NTPC, BHEL, MDL, GRSE), private industries, and academic researchers. The upgraded facility will enable more accurate data acquisition, reduce project turnaround time, and deliver advanced experimental outcomes that are currently beyond reach.

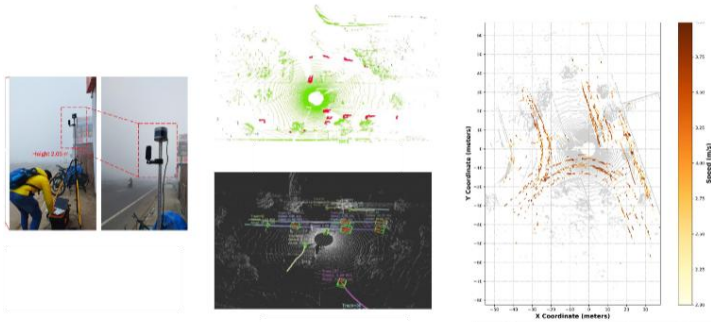
Design And Development of an Array of Electroencephalogram / Functional Near Infrared Spectroscopy Integrated with Multi-Modal Sensory System to Capture, Analyze and Classify the Emotions funded by Hindustan Unilever Ltd.

The project explores the use of EEG-based and other physiological measurements to understand how people naturally respond during product interactions. By observing responses across diverse participants, the work



aims to generate objective insights that complement traditional feedback-based methods. This approach coupled with new development in artificial intelligence is designed to strengthen the evaluation of new ideas and support consumer-centric innovations.

Proactive Safety and Mobility Assessment Using Lidar-Based Traffic Monitoring funded by AIRAWAT Research Foundation, IIT Kanpur



The project aims to develop a portable LiDAR-based road traffic monitoring system to analyze road user movements and interactions between them. The LiDAR sensors can be used to isolate the static road environment from dynamic road users given better depth resolution and localization ability under varying visibility conditions when compared to cameras. The point clouds of dynamic road users will be further processed to automate traffic counts, speeds of vehicle trajectories, heatmaps of road utilization as well as the presence of unsafe interactions among road users (e.g., near-crashes, violations). The portable data collection setup can aid the analysis of black spot audits and help conduct short-term evaluation of changes in design and operational characteristics. The proposed approach is designed to be adaptable to different road settings (e.g., intersections, roundabout, midblock segments).

Automated System for Cybersecurity Policies, Assessments, Audits, Ranking and IR funded by Ministry of Electronics and Information Technology

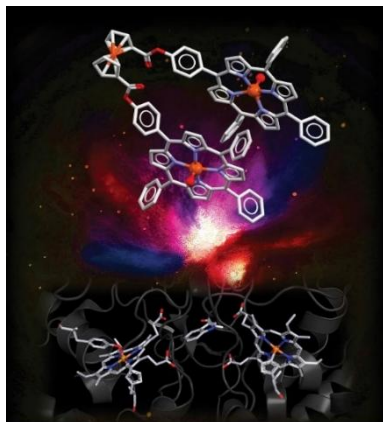
The Automated System for Cybersecurity Policies, Assessments, Audits, Ranking, and Incident Response (CcurePro) is a high-impact R&D initiative designed to strengthen cybersecurity governance for government and critical infrastructure organizations. It is architected as a connected suite of interoperable components, including CcurePolicyPro for AI-driven policy lifecycle management, CcureAssess for structured cybersecurity assessments, CcureAudit for automated audits and compliance, CcureRank for cybersecurity maturity ranking, and CcureIR for guided incident response. This is a joint project of IIT Kanpur, IIT Mandi, NIT Jalandhar, and C-DAC Bangalore, funded by Ministry of Electronics and Information Technology.

Flexible Encapsulation for Photovoltaic Devices Operating Under Harsh Environment funded by Defence Research and Development Organization

National Centre for Flexible Electronics at IIT Kanpur is working together with DRDO Industry Academia Centres of Excellence (DIA-CoE) to develop state-of-the-art flexible encapsulation technologies in close collaboration with DRDO labs. Technical specifications will be defined in such a way that developed encapsulation technology can be implemented in devices and applications envisaged by respective DRDO labs.

Diheme Enzymes: Understanding Nature's Design for Cooperative Catalysis and Sustainable Development funded by Anusandhan National Research Foundation

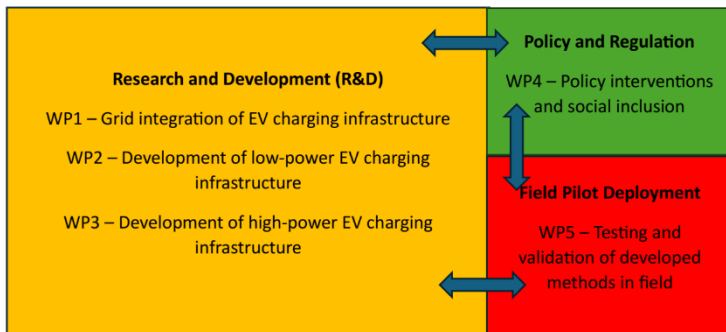
The research is aimed at biomimetic study of di-heme enzymes such as cytochrome c peroxidases, rubber oxygenases and MauG and has been designed to understand nature's sophisticated design at the molecular level and also to reproduce the enzymatic functions in the laboratory for sus-



tainable development and industrial applications. Di-heme enzymes are not simple heme assemblies but indeed sophisticated devices. Heme-heme interaction and cooperativity appear to be critical for high catalytic efficiency of di-heme enzymes. Each heme unit behaves like a domain in multi-domain proteins and has specific functions, including a regulatory one. Efficient catalysts will be designed to destroy the reactive oxygen species (ROS) efficiently as a sustainable solution for age-related diseases. The oxidative decomposition of the rubber/polymer will also be investigated using synthetic rubber oxygenase analog, a long-awaited natural and sustainable solution towards environmental pollution. Most importantly, the outcome of such investigation will also provide practical solutions for future sustainable development and industrial application.

Grid Readiness for EV: Enablers and Technological Developments (Greet) funded by Anusandhan National Research Foundation

A massive increase in the number of EVs is expected in India in the coming years. The project aims to develop innovative solutions to the challenges posed by large-scale integration of EV-charging infrastructure into the distribution systems. Led by IIT Kanpur with a national consortium of academic and industry partners, it focuses on the following key areas: impact of large-scale grid integration of EV charging stations, development of low- and high-power wired and wireless charging infrastructure, and the required policy and social interventions. Outcomes of the project will include benchmark models, hardware prototypes, real-world pilots, and policy recommendations for a sustainable EV ecosystem in India.



Antennas for SDR and Satcom Terminal funded by Defence Research and Development Organization

The aim of the proposal is to design, fabricate and test the antennas made on flexible substrate for application in software-defined radio (SDR), and antennas made on conventional substrate for integrated GPS (L-band) and S-band performance in handheld terminals used for satellite communications (SATCOM). Conventionally, the antenna size depends on the frequency range of its operation, and hence antennas used in SDR are much larger in size than those meant for SATCOM. In this project, both the types of antennas are to be miniaturized using newer techniques, without any adverse reduction in their performance metrics.



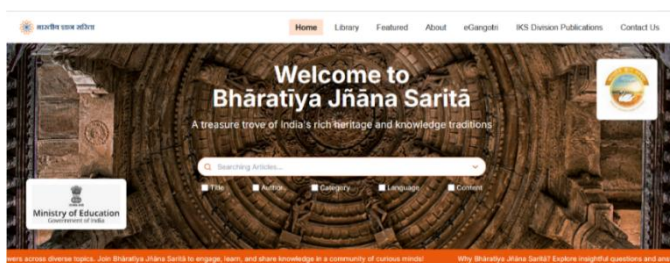
An experimental and simulation approach to understand shock attenuation in layered heterogeneous targets funded by Defence Research and Development Organization

A shock wave may be attenuated by (i) geometric scattering, (ii) scattering due to reflection and refractions at the heterogeneities, and (iii) deformation of the target. This project aims to understand the behavior of shock waves traveling through a heterogeneous and layered medium. In this project, 2D hydrocode simulations are being set up to understand material deformation

and behavior of shock waves (reflections, and positive and negative superposition) at material heterogeneities and layer boundaries. Experimental verification using high velocity (~1.8 km/s) plate impacts will be used to produce a parallel shock front, and the microstructural deformation, at the porosity and layer boundaries will be studied.

Bhāratiya Jñāna Saritā funded by Ministry of Education

The mission of the *Bhāratiya Jñāna Saritā* project is to create and disseminate information on the ancient and contemporary richness of Indian Knowledge Systems (IKS). Its scope spans a wide spectrum of topics, including philosophy, history, civilizational sciences, social and cultural sciences, mathematics, physical sciences and engineering, astronomy, linguistics, literature, political and economic sciences, medical and health sciences, culinary, nutritional, and pharmacological sciences, agriculture, arts and sculpture, fashion and edutainment sciences, and oral traditions and ancient texts of India. Alongside articles, it also provides curated resources in the form of books, audio, and video materials, uncovering knowledge preserved in Sanskrit, Prakrit, Pali, and other classical and Indian languages.



Modular and Configurable Off-board Charger (G2V, V2G, V2V) for 4-, 3-, 2- Wheelers funded by Anusandhan National Research Foundation

This project is a part of the e-node “Empowering Research in Indigenous Development of EV Sub-systems (E-Rides)” and aims to develop a TRL-7 DC charger prototype. The proposed charger is configurable to charge multiple 2 or 3 wheelers or a 4-wheeler, and station batteries. The bidirectional power flow feature enables vehicle-to-grid (V2G) and vehicle-to-vehicle (V2V) operations. The system architecture is modular, making the solution fault-tolerant offering significant cost benefits to the manufacturer during mass production.

JSW & IITK CCU Test Bed sponsored by Department of Science and Technology

IIT Kanpur and JSW Cement team has been awarded the DST project under the Academia-Industry consortia (Public-Private-Partnership mode) for the deployment of CO₂ Capture & Utilization technologies in the cement industry. Five CCU test beds have been approved under this unique first of its kind national initiative, combining premier research institutions and leading cement manufacturers.

COLLABORATIONS THROUGH MOU



IIT Kanpur and **NMDC Ltd.**, a **Navratna Public Sector Enterprise** under the Ministry of Steel, Govt. of India, signed an MoU to deepen collaboration in Cyber-security, Information Security, Artificial Intelligence (AI), Machine Learning (ML), Digital Transformation, and next-generation technological applications across NMDC's IT and OT ecosystems.



An MoU was signed between IIT Kanpur and eight state universities of Uttar Pradesh and **UEF - Ho Chi Minh City University of Economics and Finance, HUTECH - Ho Chi Minh City University of Technology**, to foster collaborative research in emerging domains such as drone technology, cybersecurity and flexible electronics.



IIT Kanpur signed an MoU with **Ecosense Sustainable Solutions Private Ltd.** This partnership marks a significant step in advancing sustainable technol-

ogy by creating a working prototype for waste heat recovery, which involves transferring heat from hot gases to cooler liquids.

An MoU signed with **Gati Shakti Vishwavidyalaya, Vadodara**, to collaborate on aerospace training and advanced laboratory exposure for GSV undergraduate



students at IIT Kanpur and joint research initiatives across rail, road, aerospace, marine, cross-cutting digital technologies.

IIT Kanpur and the **Power Foundation of India** have signed a MoU to establish the PFI Distinguished Chair Professorship on Power Sector Regulation and Policy. The initiative aims to promote excellence in teaching, research, and leadership while fostering deeper engagement between academia, policymakers, and industry stakeholders.



IIT Kanpur and **Prevest DenPro Ltd.** signed an MoU to collaborate on the development and manufacturing of Class B & Class C biomaterials and biomedical devices for dental and orthopedic care.





search, and innovation in telecom and ICT.

IIT Kanpur and **Telecommuni-
cation Engineering Centre
(TEC)**, Department of Telecom-
munications (DOT), Gol signed
an MoU to strengthen national
efforts in standardization, re-



design, development, testing, and deployment of a next
generation unmanned aerial platform tailored for extreme and
mountainous operational environments.

IIT Kanpur signed an MoU with
the **642 Electronics &
Mechanical Engineers
Battalion, 42 Artillery Division
of the Indian Army**. The
collaboration will focus on the



machinable interbody spacers/spinal cages and biodegradable/
non-degradable implants.

**DICUL AM Private Ltd. (LUCID
Implants)** and IIT Kanpur signed
an MoU for a collaborative part-
nership in advanced medical im-
plants. The partnership will work
in the areas of 3D printed/ma-

IIT Kanpur and **Power Foundation of India (PFI)** signed an MoU towards sustainable development and the decarbonization of the power sector.



Helium Smart Air Private Ltd.

and IIT Kanpur signed a Strategic Advisor Agreement to support Helium Smart Air on air-conditioning technology, HVAC innovation, research & development, academic-industry partnerships, and related areas.



IIT Kanpur signed an MoU with **Department of IT & e-Governance, Govt. of Jharkhand**, to integrate Artificial Intelligence into the State's legal systems marking India's first such initiative in the legal-justice sector. This forward-looking collaboration aims to strengthen institutional capacities, enhance efficiency, and accelerate digital transformation in governance.





New Age Education and Skills Foundation (**NAMTECH**) and IIT Kanpur signed an MoU to explore opportunities for joint initiatives, including internships, action research projects, faculty

capacity development, consultancy assignments, guest lectures, and outreach activities.



IIT Kanpur signed an MoU with **Axiro Semiconductor Private Ltd.** to collaborate in the areas of semiconductor design, development, and related technologies and foster advancements

in indigenous technology development and contribute to India's growing semiconductor mission.



Automotive Research Association of India (ARAI), an autonomous body under the Ministry of Heavy Industries, signed an MoU with IIT Kanpur to establish a collaborative framework lever-

aging the strengths of both institutions in mobility, software, related to flexible electronics, UAV and other emerging technologies.

IIT Kanpur and **the Indian Institute of Information Technology**

Una signed an MoU for collaboration for joint research projects, development of the start-up ecosystem, the

conduct of training programs and other academic activities, the establishment of laboratories and infrastructure, and the sharing of educational and research facilities.



IIT Kanpur and **Headquarters Western Command, Chandimandir**,

signed an MoU to foster collaboration in research and development (R&D), innovation, and indigenisation

across diverse domains of mutual interest. The MoU was formally signed by Prof. Manindra Agrawal, Director, IIT Kanpur, and Lieutenant General Manoj Kumar Katiyar, PVSM, AVSM, GOC-in-C, Western Command.



IIT Kanpur signed an MoU with **Border Security Force (BSF)**,

India to enhance capabilities in Drone Forensics, Counter-UAV Technology, R&D, and Training.





MoU with **Troop Comforts Ltd.** to collaborate in the design, development and manufacturing of niche technology products in areas such as unmanned aerial vehicles, MSCN systems, ballistic technologies, & other advanced defense-related domains.



IIT Kanpur and **New Mexico India Nexus Centre (NMexus)** signed an MoU to drive innovation in clean energy, AI, Aerospace, Cybersecurity, Quantum Computing, and other cutting-edge sectors. This MoU marks a significant step towards global collaboration between India and the United States, uniting top research talent with a thriving innovation ecosystem in New Mexico, USA.



India Optel Ltd. signed an MoU with IIT Kanpur to collaborate in the areas of lasers, electro-optic systems, IR optics, stabilized gimbals, and emerging technologies.



IIT Kanpur signed an MoU with **Graymatics Inc.** to work in the areas of Video, Audio, Generative AI-based technology & solutions.

INDUSTRY CONNECT SERIES

Industry-Connect series is a platform to invite industries to share problem statements and promote industry and academia collaborations and pave the way for indigenous technologies and innovative solutions.



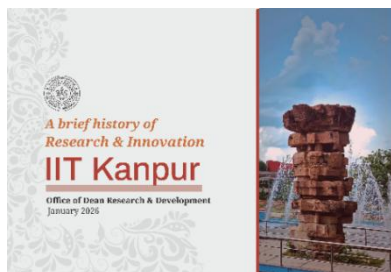
Reliance Life Sciences Pvt. Ltd. team represented by K. V. Subramaniam, President, Reliance Life Sciences Pvt. Ltd., along with Mr. Praveen Sharma, Head, Peptide Business engaged in insightful discussions

with our faculty members to explore potential avenues for research collaboration and enhanced student engagement.

The **JK Cement team**, led by Mr. Sameer Bharadwaj, Head of Manufacturing Excellence, and Mr. Prakhar Shrivastava Head of Corporate Quality, shared their problem statements on cement quality, optimization, and plant automation.

R&D EVENTS

Releasing Coffee table Book



Marking 60 Years of the Office of Dean Research and Development, a coffee table book chronicling six decades of achievements was released by Prof. Manindra Agrawal, Director, IIT Kanpur, on 26th January 2026, on the Republic Day celebration. The release of the book marks a proud milestone, celebrating six decades of sustained excellence in research, innovation, and institutional leadership

at IIT Kanpur. The position of Dean of Research and Development (DORD) was set up in January 1966 under the leadership of Prof. H. K. Kesavan as the first Dean of Research and Development.

National Science Day Celebration



To celebrate National Science Day 2026, the Office of the Dean of Research and Development introduced a new Popular Science section in its quarterly R&D Newsletter, aimed at making advanced research more

accessible, inspiring, and engaging for a wider audience. The February 2026 issue of the newsletter was released on National Science Day with contributions from the Academics and Career Council, IIT Kanpur.

Khagolvani, an astronomy outreach initiative supported by the International Astronomical Union–Office of Astronomy for Development (IAU-OAD)

Khagolvani is an outreach program of IIT Kanpur, led by the Department of Space, Planetary and Astronomical Sciences and Engineering (SPASE), dedicated to promoting astronomy education and scientific curiosity among school students and the wider community. The initia-



Kyagulanyi night-sky observation session for children of migrant brick-kiln workers near Choubepur Kalan, Kanpur, on May 21, 2026.

tive conducts hands-on astronomy activities, teacher capacity-building workshops, and public night sky observation sessions designed to reach learners with limited access to scientific resources. During the year, the program engaged more than 2,000 students and educators. Through innovative outreach and experiential learning, Khagolvani continues to advance inclusive and accessible science education.

Foundation Stone of Kotak School of Sustainability

IIT Kanpur marked a significant step in its sustainability journey with the foundation stone laying of the Kotak School of Sustainability (KSS) building. The ceremony was officiated by Prof. Manindra Agrawal, Director, IIT Kanpur, and attended by senior faculty, administrators, officials from Kotak Mahindra Bank, and members of the KSS Advisory Council.



Inauguration of Jeet Bindra Centre of Excellence in Speciality Chemicals (JBCoESC)



Through the generous contributions from Mr. Jagjeet Singh Bindra and the support from the Department of Chemicals & Petrochemicals, Govt. of India, the Jeet Bindra Centre of Ex-

cellence in Speciality Chemicals (JBCoESC) facility at IIT Kanpur was inaugurated. This marks a significant milestone in advancing research, innovation and sustainability in specialty chemicals.

MoE Springer tour



IIT Kanpur hosted Springer Nature as part of the India Research Tour 2025, organized nationally through the Ministry of Education, Govt. of India. The event featured engaging discussions on

publishing, open access, and e-books, while celebrating research excellence and women researchers at IIT Kanpur.

Engineers Conclave 2025 (EC-2025)



This annual flagship event of the Indian National Academy of Engineering (INAE), was organized in collaboration with the IIT Kanpur. The conclave brought together leading engineers, technologists, researchers,

and policymakers from academia, R&D organizations, and industry to deliberate on the themes of “Intelligent Systems” and “Interdisciplinary Cyber Physical Systems.” The inaugural session featured an address by Dr. S. Somanath, FNAE, Former Chairman, ISRO as Chief Guest.

VISITS



IIT Kanpur had the pleasure of hosting a distinguished delegation from the University of Bergamo, Italy, on October 12–13, 2025, to explore collaborative opportunities in cutting-edge re-

search and innovation.



Air Marshal Balakrishnan Manikantan, Air Officer Commanding-in-Chief, Central Air Command, visited Prof. Tarun Gupta, Dean of Research and

Development to discuss ongoing research activities at IIT Kanpur.



IIT Kanpur hosted Lieutenant General Anindya Sengupta, PVSM, UYSM, AVSM, YSM, General Officer Commanding-in-Chief, Central Command, for

a day of in-depth engagement with the institute's research community and engage with the ongoing innovative endeavors and research excellence on campus.



IIT Kanpur had the honour of hosting the Vice Chief of the Army Staff, Lieutenant General Pushpendra Singh, on campus. Lt. Gen. Singh appreciated IIT Kanpur's efforts in developing

niche technologies and expressed confidence that the growing synergy between the Indian Army and the institute will lead to the creation of cutting-edge defence technologies.

AWARDS

CII AWARD



IIT Kanpur won the PLATINUM award in the Academic-Public category for outstanding achievement in securing the highest number of Intellectual Property Grants and successful

commercialization through Industry-Academia Partnership at the CII Industry-Academia Partnership award 2025. Several technologies and products were listed, among those, Bhu-parikshak a homegrown innovation stood out for achieving notable commercial success.

Guinness World Records



IIT Kanpur has been co-featured in the Guinness World Records for the Largest Electric Bicycle Delivery through the E-Cycle program, in collaboration with EMotorad, Kuppam Area Development Authority, District Collectorate of Chittoor, Andhra Pradesh. The record-setting event highlights a major step toward sustainable, low-carbon mobility under the

Kuppam Net Zero Constituency Project, with IIT Kanpur serving as the technical partner. The official Guinness World Records Certificate was presented to Hon'ble Chief Minister Shri N. Chandrababu Naidu.

RESEARCH INFRASTRUCTURE

PARAM Sanganak-II: Advancing Supercomputing at IIT Kanpur

The PARAM Sanganak facility, a prestigious initiative under the National Supercomputing Mission (NSM), is entering a transformative new phase. Building upon the success of the first installation—a hybrid system capable of 1.66 Petaflops — the upcoming PARAM Sanganak-II is currently under development to significantly boost our research capabilities.

While the original facility served as the "workhorse" for complex simulations in climate modelling, flight modelling, biomolecular simulations, and machine learning, the new system is designed to be far more powerful. PARAM Sanganak-II is projected to reach a theoretical peak performance of 5 Petaflops, more than tripling the computational speed of its predecessor.

Funded by C-DAC, this upgraded infrastructure will empower students and faculty to solve global challenges faster than ever before. From drug development to understanding climate change, this facility ensures that IIT Kanpur remains at the forefront of global technological innovation.

NEW INITIATIVES

Wadhvani Innovation Network Centre of Excellence

The Wadhvani Innovation Network Centre of Excellence (WINCoE) is established at IIT Kanpur in collaboration with Wadhvani Foundation. The centre promotes interdisciplinary solutions bridging biology, medicine and engineering to address national and global challenges in healthcare. The prime objective is to commercialize academic research innovations and technologies aligning with national health missions in cutting-edge areas such as biotechnology, bioengineering, synthetic biology and health tech.

Skill Development Program under PMKVY 4.0



The PMKVY 4.0 skilling program on “Assistant Machinist – Iron and Steel” commenced on 2nd March, 2026 at Imagineering Laboratory with support from the 4i Lab, Central Workshop, and Tinkering Laboratory. Aligned with the vision of Viksit Bharat, the 420-hour program provides hands-on training in precision manufacturing, machining, and advanced metal cutting processes. The initiative aims to equip students with industry-ready skills and provide future training on state-of-the-art manufacturing, automation, and advanced engineering technologies.

Dhanavritti Ventures: an IIT Kanpur Alternative Investment Fund

Dhanavritti Ventures, the venture capital fund sponsored by IIT Kanpur and its alumni, has received formal registration as a Category I Alternative Investment Fund (AIF) from the Securities and Exchange Board of India (SEBI).

This significant milestone positions Dhanavritti Ventures among the first SEBI-registered VC funds in India directly sponsored by an IIT. It is also the first of its kind in Uttar Pradesh, marking a key advancement for institutional-backed venture capital in the region.

Benchmarking Open Data Platform in Health AI (BODH), IIT Kanpur

The Benchmarking Open Data Platform for Health AI (BODH), developed by IIT Kanpur in collaboration with the National Health Authority (NHA), is a pioneering national initiative launched by Union Health Minister Shri Jagat Prakash Nadda at the India AI Impact Summit 2026. It provides a secure, privacy-preserving platform for rigorously testing and validating AI solutions using diverse, anonymized real-world health datasets before large-scale deployment. Leveraging federated learning and a robust consent framework, BODH enables developers to benchmark model performance, assess clinical accuracy, and eliminate biases without direct access to sensitive data, thereby accelerating trustworthy and responsible AI adoption in India's healthcare ecosystem.

Digital Literacy, Computational Thinking, Coding & AI Science Teacher Training Program



In a major step towards future-ready education, IIT Kanpur has launched the Digital Literacy, Computational Thinking, Coding & AI (DLCCAI) Science Teacher Training Program, the first-of-its-kind initiative in the country aligned with the goals of the National Education Policy (NEP) 2020. In collaboration with Department of Basic Education Uttar Pradesh, the program is training 750 selected Science teachers from PM SHRI Schools, Upper Primary Schools, and Composite Schools across all 75 districts of Uttar Pradesh.

Future Secure AI Innovation (FSAI) Program



IIT Kanpur has launched the Future Secure AI Innovation (FSAI) Program to support students interested in building deep-tech startups. The initiative offers guidance, access to research facilities, and initial funding opportunities in areas like secure AI, machine learning, and related technologies. The program aims to help student teams develop their ideas in a structured environment, with support from mentors and experts. It seeks to encourage responsible innovation and practical applications of AI that can address real-world needs.

INNOVATION AND INCUBATION

IIT Kanpur has filed 155 IPRs in the financial year 2025-26. This achievement reinforces the institute's dedication to innovative research and signifies the fifth consecutive year that IIT Kanpur has recorded 100+ Intellectual Property Rights (IPRs) filings in a year.

Among the 155 IPRs filed, the different prospects included 131 Indian patents, 18 design registrations and 1 copyright along with 5 US patents. A total of 106 IPRs have been granted in the financial year 2025-26, and 4 technologies have been licensed.

Demonstrating a vibrant and progressive research and development ecosystem of the Institute in producing significant innovations at the grassroots level, the Institute has consistently strengthened its Intellectual Property Portfolio, reaching a cumulative total of 1,390 Intellectual Property Rights (IPRs) over the years. An overall licensing rate of approximately 11.37% to date, with 981 patents granted and 158 technologies licensed, reflects the institute's robust and evolving research and innovation ecosystem.

TECHNOLOGIES LICENSED (2025-26)

A Technical Know-How Transfer to Synergy Systems & Solutions.

A technology titled “Advanced Distribution Management System (ADMS) Solution”, a technical Know-how, developed by Prof. Ankush Sharma, Prof. Abheejeet Mohapatra and



their team from the Department of Electrical Engineering at IIT Kanpur, has been licensed to Synergy Systems & Solutions.

The developed ADMS collects real-time data from remote terminal units and other smart electronic devices installed in different locations. Featuring interfaces with SCADA for bidirectional data exchange via polling and publish-subscribe mechanisms, it also enables flexible modelling of Electrical Distribution Networks (EDNs) in urban, semi-urban, and rural pilot projects in Kanpur, ensuring seamless SCADA/ADMS integration.

Considering the market need and demand of technology, the ADMS Global Market is expected to register a CAGR of 19.7% during the period of 2025 to 2030.

Technology Transfer to Synergy Systems & Solutions

The IITK-developed technology titled, “An Apparatus for Micro-Resolution phasor Management”, having Indian Patent No. 410521, has been licensed to Synergy Systems & Solutions. This novel apparatus is developed by Prof. Ankush Sharma and Mr. Prateek Sharma from the Department of Electrical Engineering at IIT Kanpur.



It includes both IRNSS and GPS clock to make measurement system more resilient against time synchronisation failure, with a low latency communication of 100 phasor measurements per second. Major threats to power system that may lead to total or partial blackouts can be addressed by timely check of stability condition, topology, fault location, operational loading of power system equipment and islanding condition.

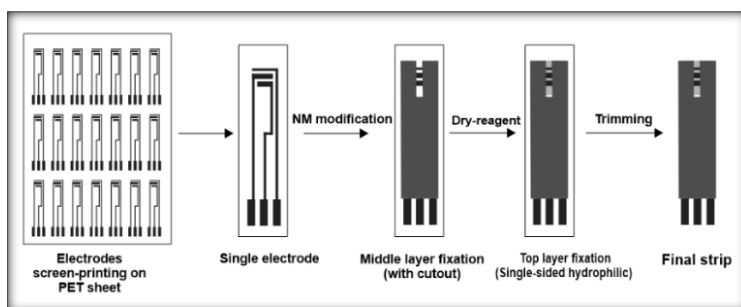
The invention offers significant potential to enhance both societal and economic development. Real-time monitoring capabilities promise fewer disruptions in power supply, empowering communities to manage energy resources effectively. Moreover, its affordability and efficiency can drive widespread adoption, lower electricity prices, and attract investment, ultimately spurring economic growth.

Technology Transfer to Sensa Core Medical Instrumentation Pvt. Ltd.

IIT Kanpur has licensed its innovative point-of-care technology for detection of uric acid in human blood/serum, to Sensa Core Medical Instrumentation Pvt. Ltd. for mass manufacturing and sales. The technology titled, “A Non-Enzymatic Electrochemical Sensor Strip for Detecting Uric Acid and a Method for Fabrication Thereof” having Indian Patent No. 580805, is developed by Prof. Siddhartha Panda from the Department of Chemical Engineering, SCDT and National Centre for Flexible Electronics & Dr. Nishant Verma from SCDT and National Centre for Flexible Electronics at IIT Kanpur.

The novel technology is a user-friendly, portable sensor for measuring uric acid concentration directly from blood or serum samples. The sensor requires only a drop of blood/serum, introduced into a sample-inlet zone, and provides a quantitative reading of uric acid levels within 60 seconds. This compact, strip-based electrochemical device enables rapid and reagent-free analysis, making it ideal for use in hospitals, diagnostic centers, home monitoring, and remote healthcare settings where quick and reliable results are critical.

Regular monitoring of uric acid is essential for early diagnosis and prevention of severe complications. Based on the market research findings, the global uric acid test market was valued at approximately USD 1.2 billion in 2024 and is expected to reach USD 2.5 billion by 2033 at a CAGR of around 8.5% from 2026 to 2033. With the growing prevalence of conditions linked to uric acid and the rising demand for rapid, portable diagnostics, this novel strip-based uric acid sensor technology is well-positioned to address these evolving needs effectively.



PM1 Sampler Technology Re-licensed to Envirotech Instruments Pvt. Ltd.

IIT Kanpur has re-licensed the technology titled, “**10 LPM Impaction-based Submicron (PM1) Sampler**”, a technical know-how, to Envirotech Instruments Pvt. Ltd. The novel sampler is developed by Prof. Tarun Gupta (CE).

This pioneering technology is a novel omnidirectional air inlet device that captures aerosol submicrons (particles smaller than 1 μm). The device features a 24-hours programmable timer that provides automatic start and shut off the sampler as per the requirement. Additionally, the device also maintains the constant sampling rate of 10 liter per minute, unaffected by voltage fluctuations, through a critical orifice system. Based on the market research findings, the Global Particulate Matter Monitoring Market Size was estimated at USD 1.848 billion in 2024 and is expected to reach USD 6.0 billion by 2035, exhibiting a compound annual growth rate (CAGR) of 11.3% from 2025 to 2035. The developed technology aims to advance air quality monitoring and support efforts to mitigate pollution and safeguard public health.



STARTUP INCUBATION & INNOVATION CENTRE, IIT KANPUR

During FY 2025–26, SIIC IIT Kanpur continued to strengthen its position as a national deep-tech incubation ecosystem through structured programs, strategic engagements, and global collaborations that advanced the startup ecosystem from innovation to deployment readiness.

SIIC IIT Kanpur played key role in Shaping the Uttar Pradesh Startup Policy 2026

The approval of the Uttar Pradesh Startup Policy 2026 by the Hon'ble Chief Minister Shri Yogi Adityanath-led Cabinet marks a significant milestone in strengthening the state's innovation ecosystem. With a strong focus on deep-tech entrepreneurship, the policy introduces a State-level Deep-Tech U-Hub and a dedicated funding support of up to ₹100 crore Patience Capital mechanism-making it the first of its kind in the country. Furthermore, it establishes twenty Centers of Excellence and offers enhanced support for incubators and research-driven innovation, with a special emphasis on securing IP and scaling startups.

IIT Kanpur, through the Startup Incubation and Innovation Centre (SIIC), is proud to have contributed to this landmark policy. Under the leadership of Prof. Deepu Philip, SIIC played a key role in conceptualizing the U-Hub framework and the Patience Capital initiative, while providing strategic inputs during the policy formulation process

EVENTS & PROGRAMMES

Ecosystem Building and Strategic Engagements

- Engaged with policymakers, industry leaders, and global institutions through platforms including Startup Mahakumbh 2025, India Mobile Congress 2025, and UP International Trade Show, enabling 20+ startups to interact with investors, corporates, and government stakeholders.
- Strengthened global collaborations through the ASEAN–India ScaleHub Program (Bali) and partnership with NMexus (USA), facilitating international market access and commercialisation opportunities for startups.
- Hosted strategic leadership engagements, including visits by Hon’ble RBI Governor Shri Sanjay Malhotra, Chief of Defence Staff Gen. Anil Chauhan PVSM, and Chief of the Naval Staff Admiral Dinesh K. Tripathi, Startup Acceleration and Thematic Programs
- Startup Gateway for Garbage-Free Cities 3.0 – Advancing urban sustainability solutions through funding, incubation, and deployment support.
- SBI Foundation LEAP Innovators for Bharat – Supporting startups in agritech, healthcare, and cleantech through long-term structured engagement.
- FutureSecure AI Innovation (FSAI) – Catalysing student-led deep-tech innovation in AI and cybersecurity.

- AMRITVA and MedTech Capacity-Building Programs – Strengthening commercialisation pathways for healthcare innovation.

Industry Integration and Market Access

- Strengthened industry engagement through collaborations with organisations including HPCL, Gliders India Ltd., Ericsson, and Tech Mahindra, enabling startups to access pilot deployment opportunities and align with industry-driven problem statements.
- FUEL 2025 Demo Day facilitated direct interaction between startups, investors, and industry stakeholders, supporting early-stage fundraising and market access.
- Abhivyakti 2026 served as a flagship innovation and investor engagement platform, enabling strategic partnerships, investment discussions, and ecosystem collaboration.
- Social Innovation Lab Startup Showcase & Demo Day, a CSR initiative by Citi India in collaboration with IIT Kanpur, showcased socially impactful startups and enabled engagement with investors, mentors, and ecosystem stakeholders.
- Skill development programs for MSMEs
- Capacity-building initiatives for Panchayati Raj institutions
- Engagement with national-level innovation platforms such as Bharat Innovates 2026

Flagship Platform

- Abhivyakti 2026 emerged as SIIC’s flagship innovation convergence platform, bringing startups, investors, policymakers, and academia in a highly curated, outcome-driven environment.

KEY METRICS AND INSTITUTIONAL OVERVIEW (FY 2025-26)

Category	Metric	Number / Value
Startup Portfolio Overview	No. of Startups Incubated	211
	Presence across India	27
	Women-led Startups	297
	No. of Startups Graduated	336
	Jobs Created	7,026 (Direct) 5,484 (Indirect)
Programmatic Outreach & Initiatives	No. of Programs Conducted	41
	Startups under CSR-Funded Programs	36
Innovation & Technology Depth	Research-to-Startup Transitions	84

	Technology Domains Covered	8
Intellectual Property & Tech Transfer	Technology Transfers	4
	Patents Filed	136
Ecosystem & Investment Engagement	Investor–Startup Meetings	62
	Investors Engaged	183
Economic & Market Impact	Total Revenue Generated	₹ 0.75 Crore
	Total Valuation	₹ 1347.58 Crore
Collaborations	Industry Partnerships	151
	Onboarded Mentors	13

INCUBATION HIGHLIGHTS

- SIIC crossed 500+ startups supported, strengthening its position among India's leading deep-tech incubation ecosystems.
- Startup participation, recognitions, funding, and strategic engagements expanded across AI/ML, Defence & Aerospace, MedTech, CleanTech, and Cybersecurity sectors.

- SIIC-supported startups participated in national and international platforms including the World Economic Forum (Davos), India AI Impact Summit 2026, Medical Fair India 2026, and TiECon UP 2026.
- Strengthened domain-focused innovation initiatives through AIIDE, FSAI, 5G/6G, and AMRITVA and MedTech programs.
- Industry collaborations with ONGC, HPCL, Ericsson, Toyota Tsusho India Pvt. Ltd., and Gliders India Ltd. enabled technology validation, pilot deployments, and commercialisation opportunities.
- Expanded international engagement through NMexus (USA), ASEAN–India ScaleHub Program, and collaboration with India Exim Bank.
- Contributed to national innovation initiatives through designation as Knowledge Partner under the PM-RKVY RAFTAAR Scheme and engagements with sectoral and regulatory institutions including PFRDA.

STARTUP SUCCESS STORIES

- Offgrid Energy Labs raised USD 15 million in Series A funding to advance its ZincGel battery technology and establish a 10 MWh demonstration manufacturing facility in the United Kingdom.
- Dream Aerospace secured ₹2 crore funding from GAIL and an additional ₹1 crore from IN-SPACE for autonomous

docking technologies focused on on-orbit maintenance and refuelling.

- Maraal Aerospace entered into a strategic partnership with HPCL, receiving a ₹2 crore investment commitment for the development of solar-powered long-endurance UAV platforms.
- RenewCred secured ₹4.25 crore in seed funding to develop India's first digital, science-led carbon credit registry.
- Royal Bengal Greentech secured ₹2 crore seed funding from GAIL and later received a 3x funding commitment from Rayzon Solar for its sustainable materials innovation.
- CLUIX raised ₹80 lakh through angel investment and the MeitY-backed SAMRIDH accelerator program.
- Manodayam received strategic funding from IvyCap Ventures to advance its AI-powered voice-acoustic platform for early mental health detection.
- Gusteau Foods received ₹35 lakhs grant at IIT Bombay's Ten Minute Million event.
- Phytomark reported ₹1.36 crore revenue in FY 2024–25, supported through SIIC's technical and business mentorship.

NATIONAL RECOGNITION AND AWARDS

- CodeMate® AI won the Startup Maharathi Award in the AI and DeepTech category at Startup Mahakumbh and launched Version 3.0 for beta users.
- SecureDApp won the Fintech Fusion Award 2025 in the Blockchain Maverick category.
- Aethrone Aerospace received the Champions of Manufacturing Award at the Economic Times Festival of Manufacturing.
- TerrAqua UAV Solutions, along with NTT Data, won the Indian CSR Award 2025 for Best Flood Management Initiative of the Year.
- Fruvetech won the 13th Tata Social Enterprise Challenge, and also secured winner and runner-up positions at the World Food India Startup Grand Challenge 3.0.
- Chimertech founder Dr. Ragul Paramasivam received the Bharat Entrepreneurs Award 2025 for innovations in veterinary diagnostics.
- Solvinn Medtech secured the BIRAC BIG 24 grant for its healthcare innovation.
- Pradivya Software was named among the Top 9 Indian startups at the Startup World Cup.
- 3R ZeroWaste won the top honour at the CII Waste to Worth Conference.
- Royal Bengal Greentech's founder received the Young Achiever's Entrepreneurship Award at CHEMEast 2026.

GLOBAL VISIBILITY AND INTERNATIONAL MARKET ACCESS

- HAB Biomass represented India at the World Economic Forum 2026, Davos, showcasing mobile waste-to-value technologies.
- iPanelKlean Solar was named among the Global Top 50 at STPI and TiE Silicon Valley's Leap Ahead Program and interacted with Microsoft CEO Satya Nadella.
- Plantables® represented India at WAM Morocco 2025 as part of the Startup India delegation.
- Pradivya Software showcased its predictive maintenance solutions at the European Robotics Forum 2025.
- CLUIX participated in the GO AUSTRIA Spring 2025 Program.
- Flameback Tech partnered with Canada-based Dots & Hawks Inc. to expand advanced propulsion systems into the North American market.
- Life and Limb and AgrowSure were selected for the Commonwealth Startup Fellowship 2025.

TECHNOLOGY VALIDATION, LICENSING AND REGULATORY MILESTONES

- Primary Healthtech received support from the Technology Development Board, DST, GoI, to scale Mobilab, its IoT-enabled, AI-powered point-of-care blood testing device.

- Lenek Technologies received CDSCO approval for LIRA, its AI-driven chest X-ray interpretation software.
- Nadipulse Prognostics began a one-year clinical validation of its nPulse device at the All-India Institute of Ayurveda, New Delhi.
- HAB Biomass secured another Indian patent, strengthening its clean energy IP portfolio.
- Four SIIC startups—ScaNxt, TerrAqua UAV Solutions, Ekarigiri, and Stillsweb - were selected under Operation Dronagiri, receiving funding and acceleration support for geospatial innovation.

SECTORAL CONTRIBUTIONS

- Dream Aerospace joined the prestigious IN-SPACe PIE Program and inaugurated its new office at Technopark, IIT Kanpur.
- Aethrone Aerospace continued to strengthen indigenous aerospace manufacturing through national recognition.
- Maraal Aerospace advanced solar-powered UAV development through HPCL support.
- VU Dynamics partnered with Prakash Asphaltting and Toll Highways India Ltd. to contribute to India's indigenous defence manufacturing capabilities.
- TerrAqua UAV Solutions deployed drone and satellite remote sensing-based flood response systems.

- Uneako's biodegradable CLEAR paper folders, made from recycled cardboard and agri-waste, gained national visibility after being seen on the desk of Hon'ble Prime Minister Shri Narendra Modi.
- 3R ZeroWaste contributed to circular economy solutions through waste-to-worth technologies.
- Medantrik® Medtech conducted a large-scale lung screening camp at GSVM Medical College, screening around 500 individuals using its AI-powered respiratory device.
- Manodayam progressed AI-based mental health detection using voice-acoustic technology.
- Life and Limb showcased myoelectric prosthetics at the Commonwealth Startup Fellowship platform.
- Solvinn Medtech gained BIRAC support for healthcare innovation.
- Royal Bengal Greentech advanced sustainable materials through BhavisyaPlast and GREEZE.
- LCB Fertilizers was featured in the Netflix series Inspiring Innovators – Naye Bharat ki Nayi Pehchaan for its indigenous organic bio-fertiliser technologies.
- Fruvetech developed patented refrigeration-free shelf-life extension technology for fruits and vegetables.
- Gusteau Foods advanced natural, vegetable-derived food colours for sustainable food systems.

THE INTERFACE OFFICE OF TECHNOLOGY APPLICATIONS (IOTA)

The Interface Office of Technology Applications (IOTA) at IIT Kanpur serves as a dynamic bridge between the Institute's world-class research and the needs of industry, defense, and government organizations. IOTA facilitates formal agreements with public and private sector organizations, hosts high-level delegations from government ministries and defence establishments, and actively represents IIT Kanpur at national forums to explore emerging opportunities in deep-tech and innovation.

During the period of July 2025 to May 2026, the Interface Office of Technology Applications (IOTA), IIT Kanpur, actively strengthened its industry-academia and defense partnerships through multiple MoUs and high-level official visits.

MOUS EXECUTED

IOTA executed four important MoUs, including with the Immersive Technology & Entrepreneurship Labs (ITEL) Foundation (July 2025) for deep-tech innovation, Border Security Force (August 2025) for drone forensics training and capacity building, and Forte India Enterprises Pvt. Ltd. (February 2026) for joint research and indigenization of equipment.

A key partnership was signed with Rolls Royce India Pvt. Ltd. in January 2026. This MoU aims to promote sustained interaction between IIT Kanpur and Rolls Royce India in mutually beneficial

areas. It provides a formal framework for student internship programs, higher education opportunities, knowledge exchange, technical upskilling, and industry-academia collaboration to foster innovation in advanced engineering domains.

VISITS OF OFFICIALS

IOTA hosted several senior dignitaries and delegations from premier organizations such as NTRO, Indian Air Force, Border Security Force, Rolls Royce India, Tata Consultancy Services, Anusandhan National Research Foundation (ANRF), SAMTEL Avionics, and the Ministry of Defense. Notable visitors included Air Marshal Pankaj Mohan Sinha, Group Captains from IAF, Executive Vice President from Rolls Royce, and Joint Secretary from Ministry of Defense.

Additionally, IOTA teams participated in important events including the CII Global Summit 2026 in Bangalore and the North Tech Symposium in Prayagraj, exploring exhibitor and partnership opportunities with the Indian Army and industry leaders.

C3I HUB

C3i Hub (Cybersecurity and Cybersecurity for Cyber-Physical Systems Innovation Hub) is a Technology Innovation Hub established at IIT Kanpur in 2020, funded by the Department of Science and Technology, Govt. of India, under the National Mission of Interdisciplinary Cyber-Physical Systems. As the name implies, C3iHub addresses cybersecurity issues of cyber-physical systems in its entirety. From analyzing security vulnerabilities and developing tools to address them at various levels of critical cyber-physical system architectures, nucleating start-ups developing such tools at scale, partnering with industries for co-development and technology transfer, to training the next generation of cybersecurity researchers, C3iHub works on every level that facilitates country's adoption and advancement of cyber-physical systems.

C3iHub has been upgraded to Technology Translation Research Park (TTRP) by the Department of Science & Technology, GoI in 2025. As TTRP, C3iHub focuses on the advancement of cybersecurity technologies in emerging risk areas and promoting deep-tech start-ups, while facilitating strong industry-academia partnerships.

In the past year, C3iHub has successfully deployed Security Operations Center (SOC) at Bhilai Steel Plant IT-OT environment making a major leap in enhancing cybersecurity resilience of India's Critical Industrial Infrastructures. C3iHub also developed a tamper-proof seed licensing platform for Govt. of Rajasthan via Hyperledger Besu Blockchain. C3iHub has developed a blockchain-based indigenous crypto-forensics tool for 24x7 surveillance and cryptocrimes investigation.



Commissioning Ceremony of C3iHub's IT-OT SOC at Bhilai Steel Plant

C3iHub launched indigenously developed secure-by-design hackathon platform-C3iHub Arena. The platform is meticulously designed for hosting coding competitions and CTF (Capture the Flag) Challenges. C3iHub also launched an indigenously developed Learning Management System (LMS). The LMS is designed to empower students, educators, and institutions through a smarter, more integrated approach to learning.

C3iHub is carrying out cybersecurity audit services to Sud Life Insurance, Solar industries, IPA (phase II commenced), BIT

Mesra Institute, Bhilai Steel Plant, Headquarters Central Command Lucknow, and Maha Metro. C3iHub also signed MoUs with Automotive Research Association of India (ARAI), Bundelkhand University, National Forensic Sciences University (NFSU), Delhi Metro Rail Corporation (DMRC), National Mineral Development Corporation (NMDC), and Realme India.

C3iHub conducted extensive tailor-made hands-on training programs for officials from MoP, NIC, HQCC Indian Army, Bhilai Steel Plant, IPA, UP Police, and security agencies – over 700 officials from various govt. & PSU organizations trained. C3iHub also trained MHA cyber commandos through 6 months residential hands-on training. Over two lakh students are trained under Cybersecurity Vocational Course jointly offered with CSJM University, Kanpur.

C3iHub successfully organized a one-day brainstorming workshop on “Critical Infrastructure Attack Surfaces & Mitigation Approaches” on 19th March 2026. The workshop focused on mapping ICS attack surfaces across critical sectors, understanding minimum baseline compliance and security practices, exploring technologies for monitoring ICS security, and addressing emerging AI-driven cyber threats to critical infrastructure. C3iHub organized a cybersecurity hackathon, HACK IITK 2026 from November 2025 to April 2026 for awareness among youth. There were two tracks: Solution Track and Capture the Flag (CTF) Track. All the Hackathon rounds starting from registration to Qualifying MCQ rounds to Challenge rounds of coding and

CTF were hosted on C3iHub indigenously developed platform C3iHub Arena. The Hackathon focused on several domains of Critical Infrastructure Security, including Network Security, Cryptography, Hardware Security, IoT Security, Digital Forensics, Automotive Security, and Cyber Crime. Over 9000 registrations were received from which 162 finalists combining Solution Track and CTF Track finally competed for the winner prizes. The grand finale of the Cybersecurity Hackathon was organized by C3iHub from April 9th -10th, 2026, at IIT Kanpur. HACK IITK 2026 was partnered by eminent organizations, and Institutes. The HACK IIT Kanpur 2026 Cyber Security Hackathon, organized by C3iHub, inspired students to tackle cybersecurity risks and invent solutions mitigating those.



Glimpses from HACK IITK 2026

IIT KANPUR RESEARCH AND TECHNOLOGY PARK FOUNDATION (TECHNOPARK@IITK)

Technopark@iitk serves as a strategic hub for fostering industry-academia collaboration, since 2019, the research park has been promoting translational research by connecting industries with IIT Kanpur's research ecosystem. The state-of-the-art facility is spread over 2.5 lakh sq.ft. space and hosts 18 residential members with dedicated R&D offices, 3 Centers of Excellence and 2 Defence Testing Labs.

The year 2025–26 witnessed remarkable achievements, highlighted by portfolio growth and the success stories of our member companies and impactful outreach events.

HIGHLIGHTS 2025-26

Resident Portfolio Growth

- **Jeevatva Biosciences** has joined as our member company, a focus to develop products composed of well-characterized microbial strains derived from the healthy human microbiome, along with prebiotics, with the goal of restoring normal and functional microflora.
- **EHM**, a sustainability company has joined as our member company developing services and solutions aligned with the Sustainable Development Goals (SDGs). The company assists industries, government organizations and HEIs in

enhancing their ESG practices, meeting regulatory requirements, managing climate risks and implementing sustainability strategies.

Member Company Milestones

- **AVPL International** has developed a fully integrated and field-validated UAV system. The system features over 5 km long-range communication, real-time telemetry and video streaming, automated antenna tracking, and advanced mission planning capabilities through GeoPoly Mapper.
- Merai Newage Pvt. Ltd. has developed the following three products
 - **RadiolQ**: an AI-powered medical imaging platform designed to assist radiologists with accurate chest X-ray diagnosis and reporting;
 - **TaviVision**: enables cardiologists to automate aortic valve analysis and streamline TAVR planning workflows;
 - **DicomPixel**: a robust web-based platform that simplifies the management and operational workflows of 2D and 3D medical imaging data.



Maraal Aerospace has devel-

oped **Tejasvaan**, a solar-powered fixed-wing UAV platform, lightweight composite airframe structures, an intelligent power management system for opti-

mized energy utilization, autonomous flight and navigation systems, an aerodynamic optimization framework using CFD and wind tunnel insights, and a modular payload integration system. Flight trials of Tejasvaan have been successfully completed.



Invariance Automation has

developed indigenous solutions, including a pick-and-place SMT machine, fly-by vision system, auto feeder integration system, and a machine control software stack.



EHM has developed 'STARC', an in-house ESG dashboard designed for Higher Education Institutions (HEIs) to track and manage their GHG sustainability journey. The company also participated in the *AI-Driven Governance for Legislators* workshop at the Vidhan Sabha.

MTX Labs has launched the world's most compact, affordable, and high-performance electrochemical analyzer, "MedPstat 2.0 Advance." Designed as a handheld Potentiostat/Galvanostat, it combines precision, portability, and power for advanced electrochemical research and applications.



Lenek Technologies has secured funding from Small Industries Development Bank of India and support from Indian Council of Medical Research. The company has actively conducted TB screening programs in Bihar in collaboration with government and institutional partners.

SkyAI Technologies has developed an advanced **drone detection system** that enables robust surveillance and real-time threat identification for sensitive and high-security zones. The company has also developed an advanced **AI-powered ERP and business automation solution** that integrates machine learning, automation, and real-time analytics.

Treacle Technologies has developed and officially released Endpoint Honeytokens, IoT Decoy and Active Directory Attack Detection Model.

Dream Aerospace has developed

its flagship propulsion module, CubeHood, a plug-and-play system powered by its ATOM Thruster and fueled by the proprietary RH-521 propellant. The company has also



developed a bipropellant thruster, Molecule, the PRISM (Propellant Refuelling and In-Space Manipulation) system, and a kamikaze drone, KALKI. They have been awarded ₹75 Lakhs at the Startup Shark Soiree 5.0, TIECon UP Chandigarh.

Geo Climate Risk Solutions has

developed the **Geosust** platform, a sustainability and risk analysis tool, enabling industries to assess environmental risks. Additionally, GCRS



has strengthened its presence through strategic collaborations with France-based BWI.

Axiot Informatics has played a key role in developing the IoT backbone for the AXIS Weather Station, that enables real-time monitoring of meteorological parameters, particulate matter, and environmental noise, along with AQI computation.



CENTERS OF EXCELLENCE (COE)

- **Airawat Research Foundation (ARF)** has sponsored the IITK PRIME Conclave on Leadership in Research, Translation & National Service and the Winter Workshop on Machine Learning & Artificial Intelligence at IIT Kanpur.
- **NMTronics Center of Excellence for Electronics Manufacturing and Skills Development** will house a state-of-the-art Surface Mount Technology (SMT) process line. It will offer specialized training programs to support the rapidly growing electronics manufacturing industry in India.

DEFENCE TESTING LABORATORIES

- **UAS (Defence) Testing Foundation (UASTF):** This state-of-the-art facility at Technopark@iitk is now equipped with comprehensive UAS testing capabilities, including environmental test chambers, EMI/EMC setups, and power supply variation systems, mobile ground control stations, aerial flight testing thereby serving as a one-stop, affordable solution for MSMEs and startups.
- **Communication (Defence) Testing Foundation (CDTF):** The CDTF at Technopark@iitk houses advanced RF, 5G, and protocol-level capabilities like Vector Signal Analyzer (VSA), Vector Signal Generator (VSG), Spectrum

Analyzer, Rohde & Schwarz CMX500, 5G NR / LTE Protocol Tester, Vector Network Analyzer (VNA), Digital Storage Oscilloscope (DSO), RF Test Software Suites.

TALENT & STRATEGIC COLLABORATIONS OPPORTUNITIES CREATED (2025-26):

- Member companies offered 27 internships and 27 full-time roles to the students of IIT Kanpur strengthening industry-ready talent pipelines. There was 1 industry-sponsored postdoctoral position supported by a member company.
- An MoU was facilitated between SIIC and Startup Stairs, promoted by AVPL, our member company reflecting the strength of intra-ecosystem collaboration within Technopark@iitk.

OUTREACH ACTIVITIES (2025-26)

- Technopark@iitk sponsored the GCC Innovation Summit 2025, organized by the IIT Kanpur Alumni Association.
- Under the India-Japan Talent Bridge Program, commissioned by the Ministry of Economy, Trade and Industry (organized by IITK SPO), a Japanese delegation, including industry representatives and government officials, was hosted.

- Technopark@iitk was an exhibition partner at the CII Global Summit on Industry-Academia Partnerships 2025 held at the India Habitat Centre, New Delhi.
- Invitation to contribute to Niti Aayog's national consultation on "Institutional Structures to Support Research Translation and Productization in India," engaging with leaders from research parks and S&T clusters to deliberate on institutional models.
- Invitation by ASSOCHAM to speak as part of a panel on Digital Transformation, Finance & Investment Ecosystem: Manufacturing Smarter & Industry 4.0, at the Uttar Pradesh Manufacturing Conclave 2026 in Lucknow.

KOTAK SCHOOL OF SUSTAINABILITY

The Kotak School of Sustainability (KSS) at IIT Kanpur established with the support of Kotak Mahindra Bank's CSR initiative serves as the Institute's central hub for sustainability research, innovation, and policy action. The school's vision is to provide thought leadership and practical solutions that advance India's transition towards a sustainable and resilient future. Its mission spans five core pillars: Climate and Energy Science & Technology, Water and Environmental Sustainability, Sustainable Technology and Innovation, AI for Sustainability, and Capacity Development for a Sustainable Future. The school anchors over

15 active projects spanning climate, flood management, environmental health, and recycled and sustainable energy technologies, advancing both fundamental research and applied solutions for sustainability transitions.

A key strength of KSS lies in its network of Centres of Excellence that address environmental and sustainability challenges across scales. The Advanced Technologies for Monitoring Air-quality and Nature (ATMAN) Centre leads one of India's largest rural air-quality monitoring initiatives, deploying 1,380 sensors across Uttar Pradesh and Bihar to generate real-time, high-resolution environmental data. This initiative fills a critical knowledge gap by capturing air-quality trends in rural regions and supporting cleaner, healthier community development. In December 2025, ATMAN also launched the AMRIT open-access data portal and the MANAS (Mumbai Air Network for Advanced Sciences) urban sensor network in partnership with the Brihanmumbai Municipal Corporation, extending its impact to city-scale air-quality management.

Complementing this, the Centre for Ganga River Basin Management and Studies (cGanga) serves as the scientific and technical arm of the Namami Gange Programme, providing knowledge leadership for sustainable management and rejuvenation of the Ganga River Basin through integrated approaches to water security, ecological restoration, and pollution abatement.

The AIRAWAT Research Foundation (ARF), established at IIT Kanpur with support from the Ministry of Education, Government of India, extends the sustainability mission of the Kotak School of Sustainability through AI-driven research and innovation for sustainable cities. As the AI Centre of Excellence for Sustainable Cities, ARF focuses on urban resilience, clean air, energy efficiency, and climate adaptation by developing data-driven solutions for urban flood forecasting, air quality monitoring, and energy demand management. Through collaborations with organizations such as IBM, Tata Consultancy Services, Delhi Transport Corporation, and the Adani Group, ARF is building intelligent platforms and real-time decision-support systems that integrate environmental and mobility data to help cities become smarter, cleaner, and more sustainable.

Other major Centres under KSS include the Centre for Environmental Science and Engineering (CESE) and the Chandrakanta Kesavan Centre for Energy Policy and Climate Solutions (CKC), which advance interdisciplinary research in air and water quality, clean energy systems, and climate policy integration.

KSS fosters the next generation of sustainability leaders through PhD, MTech., and eMasters programmes in areas such as Renewable Energy, AI for Sustainability, and Sustainable Energy Engineering. The first batch of the MTech in AI for Sustainability, launched in 2025, integrates data science with environmental applications. The academic activities of KSS are sup-

ported by multiple units across IIT Kanpur—with the Department of Sustainable Energy Engineering (SEE) being one of the key constituents engaged in running these programmes. The Department of Sustainable Energy Engineering (SEE) at IIT Kanpur advances research, education, and innovation in clean and renewable energy. Its interdisciplinary work spans solar and wind technologies, energy storage, and alternative fuels, integrating science, engineering, and policy.

Supported by the Government of India, Bloomberg Philanthropies, the Clean Air Fund, and Open Philanthropy, KSS also collaborates globally with faculty from Cambridge, Princeton, MIT, Max Planck, and the University of Maryland.

ONGOING RESEARCH INITIATIVES

Current projects include the utilization of sugarcane bagasse in clay brick production for sustainable waste management, appliance-level electricity monitoring systems to promote residential energy efficiency, sustainable energy storage using earth-abundant organic materials, low-cost drinking water solutions from surface water, and flood resilience studies in the Lower Ghaghra–Rapti river basin. Research is also being conducted on flash iron-making reactors using H_2 -CO mixtures, the health and economic impacts of air pollution, Kans grass-based green structural materials involving local communities, AI-enabled weather and climate forecasting, solar thermal-based ammonia

cracking for hydrogen regeneration, smart materials for dynamic radiative cooling, India–ASEAN trade integration technology and environmental impact analysis, electrochemical synthesis of ammonia and hydrogen regeneration technologies, hand-held micronutrient soil sensing tools, technology-integrated solid waste management planning for Kanpur city, and interdisciplinary studies on the business, technology, and social dimensions of waste management, alongside the broader vision of developing “IIT Kanpur: A Sustainable Campus.”

OUTREACH

Under the Net Zero IITK initiative, the Kotak School of Sustainability is leading a range of outreach and knowledge-sharing activities, including a comprehensive biodiversity and ecological survey of IIT Kanpur’s 1055-acre campus to create a living ecological inventory and support long-term conservation planning. The school regularly organizes the Swastibhavatu Lecture Series, supported by the Rawat Family Trust, alongside KSS seminars to promote academic dialogue, featuring distinguished speakers. Major events hosted recently include the Indo–Max Planck Workshop SYS 2026 on sustainability in climate, water, and urban systems, workshops on watershed development under PMKSY 2.0, waste management, and digital-cyber sustainability in collaboration with institutions such as the Indian Na-

tional Science Academy and NITI Aayog, fostering interdisciplinary engagement between academia, government, and policy stakeholders.

UPCOMING CAMPUS

The upcoming Kotak School of Sustainability (KSS) building is planned as a LEED Platinum-certified and Net Zero Energy facility that integrates sustainable design, energy-efficient systems, and eco-sensitive construction practices with a total built-up area of approximately 5,340 sqm. The building will house around 25 research laboratories, supported by a well-structured office area of about 3,050 sqm, which includes faculty offices, staff offices, PhD scholar workspaces, postdoctoral areas, and administrative offices. In addition, approximately 935 sqm is dedicated to interactive spaces such as seminar halls, conference rooms, and lounges to encourage collaboration, while around 397 sqm is allocated for service areas.

Designed with a strong focus on sustainability, the project integrates eco-sensitive site planning, low-carbon materials such as bamboo and hempcrete, and energy-efficient systems. The architecture harmonizes with the natural habitat by preserving existing silver oak trees and incorporating landscaped open spaces, ensuring a balance between built infrastructure and the surrounding environment.

DRDO-INDUSTRY-ACADEMIA CENTRE OF EXCELLENCE AT IIT KANPUR (DIA COE IITK)

IIT Kanpur and Defence Research & Development Organization (DRDO) have collaborated to establish a DRDO-Industry-Academia Centre of Excellence at IITK (DIA CoE IITK) for interdisciplinary research in next generation defence technologies. The aim of the DIA CoE IITK is to build an ecosystem that facilitate technology development in the academic environment through experienced faculty and bright scholars through harnessing and synergizing the strengths of academia, student community, research scholars, niche technology industries, and DRDO scientists.

DIA CoE IITK is mandated to spearhead focused research in identified research and development verticals, including Flexible Electronics and Substrates (FES) to build devices and systems based on thin films for strategic applications; Sensing, Stealth and Surface Protection Using Nano Materials and Meta Materials (SSSP) to provide fundamental contribution to material selection and design; Accelerated Material Design and Development (AMDD) to reduce the number of actual trial experiments while reaching optimal solution via high throughput experiments; High Energy Systems (HES) to focus on the modelling of high-performance explosives and performance prediction of metalized explosives; Bio- Engineering and CBRNE Applications (CBRNE) to develop technologies for applications ranging

from sensing hazardous agents to wound healing and Software Defined Radio and Military Communication Technologies (SDRMC) to develop flexible, reprogrammable radios and secure, resilient, interoperable communication system.

Since the establishment, several steps have been taken such as, interactions with DRDO scientists in the form of meetings, visits, and workshops to understand DRDO's needs and to identify potential areas of collaboration; recruitment of manpower; and allocation of space. As a result of these efforts, total One hundred Seventeen project proposals, worth ₹ 536.73 Crore, have been submitted on a diverse range of topics for the consideration of DRDO. The relevant details, as on April 21, 2026, are as under:

RV	Pro- posals Submit- ted	Cost (lakh)	Pro- jects Sanc- tioned	Cost (lakh)	Pro- jects Ap- proved	Cost (lakh)
1	18	5709.22	3	1694.24	0	0.00
2	25	9485.00	4	1625.04	0	0.00
3	17	14817.95	1	332.14	1	4119.26
4	11	4319.64	5	1130.25	0	0.00
5	25	9379.57	3	516.12	0	0.00

6	10	5635.54	2	389.51	0	0.00
Other	11	4326.31	0	0.00	0	0.00
Total	117	53673.23	18	5687.30	8	4119.26

Research Vertical (RV) wise compilation of project proposals received.

Besides the above, DIA CoE has also received project proposals which were beyond the identified research verticals, e.g., Dynamic suspension-based space robotics platform for experimental validation of spacecraft close-proximity operations, and High Entropy Ultra High Temperature Materials. These proposals have been forwarded to concerned DIA CoEs for their consideration.

DIA CoE IIT Kanpur drives cutting-edge research across six key verticals, and a concise overview of each vertical, their thrust areas, and key projects are detailed below:

RV 1: Flexible Electronics and Substrates (FES)

Thrust Areas: Multi-element sensors, ultra-thin flexible electronics, conductive transparent coatings, packaging, and applications like stealth, flexible antennas, and energy harvesting.

Projects Sanctioned: Flexible Solid-Electrolyte Batteries (Flex SEA Bat), Antennas for SDR and SATCOM Terminal, Flexible Encapsulation for Photovoltaic Devices Operating under Harsh Environment, Flexible encapsulation for photovoltaics.

RV 2: Sensing, Stealth and Surface Protection Using Nano Materials and Meta Materials (SSSP)

Thrust Areas: Nano-material-based sensors, multi-spectral stealth, marine coatings, high-entropy materials, and scalable production of nano/meta-materials.

Projects Sanctioned: Multispectral stealth solutions covering visible, NIR, thermal and microwave ranges coatings and patterned surfaces, Third-Generation Super omni phobic Foul-release Marine Coatings for Water-borne Vehicles, Antenna using Metamaterials for X- and Ku-band Applications, Active Tuneable Electromagnetic Structures.

RV 3: Accelerated Material Design and Development (AMDD)

Thrust areas: Integrated Computational Materials Engineering (ICME) for advanced metals, super-alloys, naval steel, and AI/ML-driven material design.

Projects Sanctioned: ICME for near alpha Ti-Alloy blisks with dual microstructure

RV 4: High Energy Systems (HES)

Thrust areas: Scalable additives, life prediction of energetic materials, modelling warhead chemical structures, green synthesis, and internal ballistics.

Projects Sanctioned: An experimental and simulation approach to understand shock attenuation in layered heterogeneous targets, Force Field Development for HEMs, Green catalytic protocol for TATB synthesis and beyond, Enzymatic degradation of Nitrocellulose (NC) and single base propellant (SBP), A Tool for Predicting Mechanical Properties of Compacted Granular Materials Using Particle morphology.

RV 5: Bioengineering and CBRNE Applications (CBRNE)

Thrust Areas: Tissue regeneration, assistive devices, wearable sensors, CBRNE threat detection, decontamination, and AI-based prosthetics.

Projects Sanctioned: Artificial Intelligence and Structure-based Approach to discover Broad Spectrum Antivirals against Emerging Viruses (Pan-alphaviruses & Pan-flaviviruses), Development of Sustainable and Indigenous Porcine Collagen Extraction Technology for Corneal and Bone Regeneration in Battlefield Injuries, Development of AI-based personalized above-knee powered prostheses for soldiers.

RV 6: Software Defined Radio and Military Communication Technologies (SDRMC):

Thrust Areas: Waveform design, wireless systems, spread spectrum analysis, cognitive radio waveforms, and efficient SDR hardware.

Projects Sanctioned: Metamaterial based Ultra-Wideband antenna array and Artificial Magnetic Conductor for RF Applications, Design of Metamaterial-inspired compact UWB Antenna at UHF and VF Bands.

GANGWAL SCHOOL OF MEDICAL SCIENCES AND TECHNOLOGY (GSMST)

The Gangwal School of Medical Sciences and Technology (GSMST) at IIT Kanpur made significant progress in 2026 across infrastructure development, research innovation, academic collaborations, and community engagement.

Prof. Anil Lalwani from Columbia University, USA, was appointed as the Dean of GSMST, bringing extensive global expertise and leadership to the institution.

Construction of the Yadupati Singhania Super Speciality Hospital and associated academic facilities progressed steadily with the completion of the residential studio apartments for faculty and resident doctors. The school's eleven Centers of Excellence continues to drive cutting-edge research in healthcare technologies, with notable advancements in the Hridayantra (LVAD) project.

The school organized and participated in several high-impact symposia, expert lectures, workshops, and outreach programs,

further bridging the domains of medicine, engineering, and technology.

R&D AND ACADEMIC COLLABORATIONS

IIT Kanpur signed an MoU with AIIMS Gorakhpur to strengthen collaboration in research, development, consultancy, and academic programs in biomedical engineering and related fields.

As part of its ongoing collaboration with the University of California San Diego (UCSD), GSMST is actively contributing to the development of academic and training partnerships aimed at expanding educational programs and research initiatives in medicine and health sciences.

OUTREACH

- GSMST was prominently featured at **IITK Samanvay 2025**, where Hon'ble Chief Minister of Uttar Pradesh, Yogi Adityanath ji, engaged in a detailed discussion with the GSMST team and appreciated the progress achieved.
- As part of the online symposium series "*Maternal Health & Innovation: Advances in Research and Technology*",



GSMST shared 12 curated expert video lectures in collaboration with the Women's Collective Forum (WCF).

- GSMST organized a community outreach session on "Strengthening Women and Maternal Health in Rural Communities" at Ranjit Singh Rozi Shiksha Kendra, IIT Kanpur, with support from the Women's Collective Forum.
- GSMST participated in the Federated Intelligence Hackathon for Healthcare, organized by the National Health Authority (NHA) and ICMR–NIRDHDS at IIT Kanpur.

GLOBAL ENGAGEMENTS

- GSMST participated in the Global Summit 2025 as part of the Global Consortium of Innovation & Engineering in Medicine, hosted by Carle Illinois College of Medicine and the University of Illinois at Urbana-Champaign.
- GSMST, IIT Kanpur, was featured in a special session on "Engineering the Future of Health" at the 7th International Prostate Cancer Symposium and World Urologic Oncology Congress, hosted by the Mount Sinai Health System, New York, from December 3–5, 2025.
- GSMST, IIT Kanpur, participated in Faculty Alumni Collaborative Endeavour (FACE) Symposium at Stanford University on 3rd October 2025. Theme track was "Innovations in Medical Devices, Diagnostics & Therapeutics."

SIGNIFICANT MEETINGS / INTERACTIONS



The Director of IIT Kanpur, Prof. Manindra Agrawal, along with Mr. Rakesh Gangwal, co-founder of IndiGo Airlines, major donor and advisory board member of GSMST, met Hon'ble Chief Minister of Uttar Pradesh, Yogi Adityanath ji on June 9th, 2025 at UP Sadan, Delhi. They presented a 3D model of Hridayantra, India's indigeneous advanced heart-assist device - marking a significant milestone in healthcare innovation.

RESEARCH & DEVELOPMENT

- The Hridayantra (LVAD) project advanced to the next stage. Following successful in-vitro trials with human blood, ex-vivo testing using an explanted sheep heart is currently underway at the Animal Trial Facility, Hyderabad.
- GSMST-affiliated faculty published 35 research papers and a book in reputed national and international journals during the period April 2025 – March 2026.
- Two patents were granted to Prof. Ashok Kumar and his team for their work on “Biodegradable metal-based bone implants” and “Surface-functionalised, hepatocyte-specific

exosomes.” The team also successfully completed two technology transfers — Cryo-Haemoclot and OsteoCarrier.

- Springer published the latest volume of the IIT Kanpur Directions book series titled *“Technology and Innovation in Medicine Sciences”* on GSMST (Hardcover ISBN: 978-981-96-8605-6). The volume contains 12 chapters highlighting key innovations in cardiac digital twins, point-of-care devices, indigenous LVAD/PVAD development, cancer technologies, and robotics in healthcare.



DISTINGUISHED VISITING PROFESSORS/PROFESSOR OF PRACTICE

The following eminent academicians were appointed as Distinguished Visiting Professors / Professor of Practice:

- Dr. Ashutosh Tewari, Surgeon-in-Chief, Tisch Cancer Hospital, Mount Sinai, New York
- Prof. Richard Strugnell, Department of Microbiology and Immunology, The University of Melbourne
- Prof. Jennifer R. Grandis, Professor of Otolaryngology-Head and Neck Surgery, University of California San Francisco
- Dr. Alok Bajpai, Visiting Professor of Practice

INFRASTRUCTURE DEVELOPMENT

Construction of Yadupati Singhania Super Specialty Hospital and the IBM academic block is progressing as per schedule. Under the aegis of GSMST, Campus Diagnostic Center was inaugurated on the IIT Kanpur campus to enhance healthcare facilities for residents. Established with generous support from ICICI Bank, the facility is equipped with advanced molecular, microbiology, pathology, and biochemical laboratories.

Bhoomi Pujan for Package 5 of the GSMST construction was held on 19th October, 2025. The IITK and GSMST leadership were present for the occasion.

FUNDING SUPPORT

- PEHEL Foundation (a wholly owned subsidiary of PNB Housing Finance Ltd.) is supporting the establishment of the Operation Theatre complex at the Super Speciality Hospital.
- Mr. Manoj Gupta and Mr. Neeraj Gupta, Co-founders of Opalescent IT Solutions Inc., are supporting the establishment of a dedicated Economically Weaker Section (EWS) Ward at the Super Speciality Hospital.

THE MEHTA FAMILY CENTER FOR ENGINEERING IN MEDICINE

In the 2025-2026 academic year, IIT Kanpur's Mehta Family Centre for Engineering in Medicine (MFCEM) achieved significant recognition, with its faculty being elected to prestigious academies for groundbreaking research and numerous patents being filed/awarded.

HIGHLIGHTS

Awards/Honours/Recognitions/Academic service	30
Grants and Patents	Grants: 4; Patents:22 (11 Awarded; 11 Filed)
Invited talks	36
Conference organized	3
Publications	62
Students Awards/Recognition	26

INNOVATION

- Prof. Santosh Kumar Misra and his team have developed a technology titled "Portable Readout Unit for Chemiresistive Sensor" (PRuCSor). PRuCSor is a compact, lightweight, and affordable chemiresistive sensing device designed for easy portability and use in various environments.

GRANTS

- Prof. Jayandharan G Rao was awarded the Collaborative Academic Research Efforts (CARE) with Sivaprakash Ramalingam as Co-PI. The title of the grant is: Establishment of clean room facility for pilot-scale manufacturing of therapeutics.
- Prof. Jayandharan G Rao with Dr SK Misra and Dr Ratnapuri Dua as Co-PIs were awarded by the Anusandhan National Research Foundation, Government of India. The title of the grant is: Development of Indigenous Platform for Gene Therapy of Spinal Muscular Atrophy.
- Prof. Sandeep Verma was awarded by the ANRF-ARG grant, titled: Wireless Neurostimulation and Neuromodulation Platforms for Light-Driven H₂S Release in NLRP3 Inflammasome-Mediated Stroke Recovery.

WORKSHOP / CONFERENCE ORGANIZED

- Prof. Ashok Kumar (Convener) & Prof. Rakesh Kumar Majhi (Co. Convener) organized the "MIDNAMSCON 2025 & CME Workshop," from August 16th-17th, 2026, to promote "Advances in MedTech for Shaping the Future of Healthcare" in collaboration with GSVM Medical College, Kanpur, Gangwal School of Medical Sciences and Technology at IIT Kanpur, and National Academy of Medical Sciences (India).

- Prof. Bushra Ateeq and Prof. Rakesh Majhi organized the ANRF-PAIR Conference on Cancer Genomics, Diagnostics, and therapeutics, 28th - 30th January, 2026.
- Prof. Saravanan Maheswaran was the Convener for the International Conference on Superbug Summit: Mechanisms, Evolution, and Control of Drug-Resistant Pathogens at the Chanakya University, March 26–28, 2026

SAMTEL CENTRE FOR DISPLAY TECHNOLOGIES & NATIONAL CENTRE FOR FLEXIBLE ELECTRONICS

VISION AND OBJECTIVES

Samtel Centre for Display Technologies: The Samtel Centre for Display Technologies, known more popularly as Samtel Centre or SCDT, is a multi-disciplinary research and development centre which caters to prototype building and eventual productization of technology related to Flexible Electronics. The areas of focus broadly include large area electronics which are typically printable and are likely to be built on an organic electronics base. The ideas explored at the centre are necessarily linked to a real-world application with some practical value. Prototype building and productization are carried out primarily at its industry outreach arm - which is the National Centre for Flexible Electronics (FlexE Centre) - typically with active involvement

and participation of industry partners right from the early stages of development and product conception.

National Centre for Flexible Electronics: The National Centre for Flexible Electronics (NCFlexE, also known as the FlexE Centre) was set up as a Centre of Excellence at the Indian Institute of Technology (IIT) Kanpur in 2014 with financial support from the Ministry of Electronics and Information Technology (MeitY), Government of India, and IIT Kanpur. The vision of this Centre is to catalyse the development of domestic industry in the field of large area flexible electronics, and this vision is being executed with the Centre serving as a bridge between the academic ecosystem and the industrial ecosystem. The second phase of NCFlexE has been sanctioned for the tenure of five years starting from November 2023.

HIGHLIGHTS

SI No.	Particular	No.
1.	Patents filed	06
2.	Publications	15
3.	NDA and MoU with Industries	10
4.	Ongoing Projects	08

TECHNOLOGY TRANSFER

The sensor developed for uric acid detection, using a flexible screen-printed electrode platform, incorporates a three-electrode configuration integrated with a microfluidic sample chamber and a strategically designed dried reagent chemistry. The working electrode has been successfully modified with bimetallic nanoparticles, resulting in enhanced electrocatalytic activity, improved sensitivity, and lower oxidation potential. A key advancement in the system is the spatial isolation of dried reagent chemistry. Furthermore, a patent (Patent No.: 580805) has been granted for the developed sensor. This technology has been licensed to Sensa Core Medical Instrumentation Pvt. Ltd.

OUTREACH ACTIVITIES

Participation and exhibition on the following events

- *Semiconductor Manufacturing Skills Workshop*, at IIT Guwahati organized by SEMI, ESSCI and IESA from 10th - 11th April 2025
- *Semiconductor Manufacturing Skills Workshop*, at IIT Gandhinagar organized by SEMI, ESSCI and IESA from 16th -17th April 2025
- *Design led Manufacturing and Promoting Indian Champions* organized by CII, New Delhi on 21st May 2025

- *Automotive Display & Electronics Workshop* organized by SID along with IECA and NCFlexE, IIT Kanpur at India Habitat Centre, New Delhi on 20th June 2025
- Invited Industry Plenary talk on *Advancing Manufacturing in Flexible Hybrid Electronics through Innovation and Design* at IEEE FLEPS organized by National University of Singapore, Singapore on 22nd June 2025
- *3M India Tech Connect Meet 2025* held in Pune on 21st August 2025. This annual technical event brought together experts to engage and explore cutting-edge innovations powered by 3M science
- *SEMICON India 2025*, organised by India Semiconductor Mission in partnership with SEMI and industry associations at the Yashobhoomi (IIC), New Delhi, India from 2nd - 4th September, 2025
- IEC GM 2025 meetings held at Bharat Mandapam and BIS Headquarters from 15th – 19th September 2025
- International Conference on Micro Nano Fluidics (ICOM 2025) held at IIT Guwahati from 31st October 2025 to 2nd November 2025
- 8th CII Electronics Summit 2025 at India Habitat Centre, New Delhi on November 17th, 2025
- 7th International Conference on Emerging Electronics held at Bangalore from 13th -16th December 2025
- International Workshop on Physics of Semiconductor Devices (IWPSD) 2025, held at Roorkee from 15th - 18th December 2025

- A National Seminar on “Latest Trends in the Field of Printing Machinery” was organized by BIS, collaboration with the NCFlexE, IIT Kanpur at IIT Kanpur on 8th January, 2026
- 52nd Dairy Industry Conference and Exhibition (DIC 2026), held at New Delhi from 12th-14th February 2026
- “Shaping the Next Era of Displays organized by Society for Information Display (SID) collaboration with the NCFlexE, IIT Kanpur at IIT Kanpur on 17th February, 2026
- Half-Yearly Members' Meeting of the Association of Diagnostics Manufacturers of India (ADMI) held in Mumbai on 21st February 2026
- IEEE Applied Sensing Conference (APSCON) at New Delhi, from 23rd - 25th February 2026

ANNUAL SHORT COURSE, INDUSTRY MEET ORGANISED BY NCFLEXE

- **Short Course Flexible and Printed Electronics:** NCFlexE, IIT Kanpur organized a short course on Flexible and Printed Electronics from 24th -26th July 2025. It was held online, and presentations were made consisting of an overview of key Flexible Electronics technologies such as OLEDs, TFTs, PV, sensors etc., Fundamentals of semiconductors for Flexible Electronic Devices, and Application Case studies.
- **Industry Meet-2025:** NCFlexE, IIT Kanpur organized an “Industry Meet-2025” on Enabling Eco- System: Printable

Electronics Manufacturing in India” on 12th December 2025. It was held online, and presentations/special addresses were delivered by MeitY, Gol, industry and NCFlexE team.

NATIONAL AEROSOL FACILITY

The National Aerosol Facility (NAF) at IIT Kanpur in collaboration with Bhabha Atomic Research Centre (BARC) under Department of Atomic Energy (DAE) is a state-of-the-art, multi-purpose research center dedicated to study aerosol behaviour under conditions simulating severe nuclear reactor accidents. During such accidents, fission products are typically released from the reactor core as aerosol particles and gases.

Given the hazardous nature of these aerosols, NAF plays a vital role in understanding the behaviour of aerosols and improving safety measures and mitigation strategies. The major objectives of NAF include generating an extensive database on aerosol retention factors in representative PHT (Primary Heat Transport) piping systems for various thermal-hydraulic conditions during typical post-severe accident scenarios, both dry and wet conditions. This database is used for the validation and development of nuclear accident codes. There are some projects in collaboration with Reactor Safety Division (RSD) of BARC, titled “Experimental Study on Aerosol Retention Characteristics in BSMR components at National Aerosol Facility in Context of Severe Accidents” and Radiological Physics and Advisory Division (RP&AD), BARC titled “Assessment of Physical

Properties of Aerosol Generated During Postulated Reactor Accidents for Improving Inputs to Source Term Codes” are in advanced stage for upcoming research in the facility. The NAF is supporting numerous initiatives, ensuring the facility's self-sufficiency and underscores the robust economic sustainability of the facility.

Following are the wide array of projects and initiatives registered under NAF.

- **Open Philanthropy (2022-2028):** To Support the Rural Air Quality Monitoring Project.
- **Ministry of Earth Sciences (MoES), GoI (2023-2027):** Ice Nucleating Particle and Cloud Condensation Nuclei Properties in the North-Western Himalayas (Ice-Crunch).
- **Clean Air Fund (2023-2026):** Dynamic Hyper-Local Source Apportionment for Real-Time Policy Action
- **Clean Air Fund (2023-2026):** Atman-Centre of Excellence: Core Support Grant
- **Clean Air Fund (2024-2026):** Supporting Indigenous Development of Low-Cost Sensors
- **Klenviron Technologies Pvt Ltd, Mumbai (2024-2027):** Testing the Efficacy of Air Purifier Modules Under Outdoor and Room Conditions: To test the performance of their air purifier
- **GE India Industrial Private Ltd. (2024-2026):** Collecting Airborne Dust Samples from Various Airports Across India

- **Swati Energy & Projects (P) Ltd** (2024-2027): Joint Collaboration with Swati Energy for Knowledge Sharing
- **Mumbai Municipal Corporation** (2025-2030): Mumbai Air Network for Advanced Sciences (MANAS).
- **BP India Private Ltd.** (2025-2027): CSR Project – AI Enabled Methane Emission Monitoring

Dynamic Hyper-Local Source Apportionment for RealTime Policy Action

The project has established a novel technique called Dynamic Hyper-local Source Apportionment (DHSA) for real-time and low-cost Source Apportionment (SA). Mo-

Mobile Laboratory For Onsite
Air Quality Monitoring

Aerosol Instrumentation



bile AQM laboratory housing sophisticated instruments (like Aerosol Mass Spectrometer (AMS), Xact, Scanning Mobility Particle Analyzer (SMPS), Aethalometers, E-Bam, Optical Particle Sizer (OPS), along with the portable sensor units) was developed for testing the technique across Lucknow and Kanpur. The mobile laboratory has completed cycles of sampling across different category sites in Lucknow and Kanpur. As a part of Airawat Research Foundation, incubated a section-8 company at IIT Kanpur where PI of National Aerosol Facility acting as Project Director, the mobile van for DHSA was deployed at Delhi

to monitor air quality in various locations in collaboration with Delhi Pollution Control Committee (DPCC). Currently it is deployed at Ahmedabad for the source apportionment study of the city.

CENTRE OF EXCELLENCE IN ADVANCED TECHNOLOGIES FOR MONITORING AIR-QUALITY INDICATORS (COE ATMAN)

Centre of Excellence in Advanced Technologies for Monitoring Air-quality indicators (CoE ATMAN), approved by PSA office, Government of India, is currently executing 5 projects. CoE ATMAN's activities focus on development of indigenous PM Sensor development, Real-Time Source Attribution with portable sensors, use of AI/ML capabilities for establishing nationwide AQ monitoring networks, airshed delineation, AQ forecasting, Dynamic Hyper-Local Source Apportionment (DHSA) and network optimization.

Following projects are endorsed under the CoE ATMAN

- Open Philanthropy. Rural air quality monitoring in UP and Bihar.
- Clean Air Fund (CAF). Indigenous Development of Low-Cost Sensors.
- Clean Air Fund (CAF). Atman-Centre of Excellence: Core Support Grant.

- Clean Air Fund (CAF). Dynamic Hyper-Local Source Apportionment for Real-Time Policy Action.
- Rail India Technical & Economic Services Ltd. (RITES) DHSA at Kanpur.

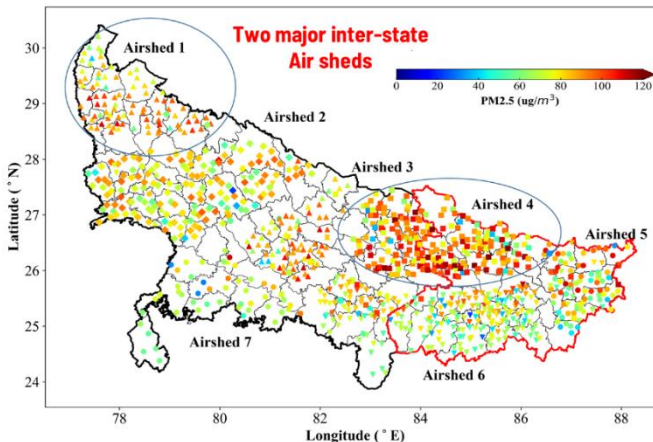
AMBIENT AIR QUALITY MONITORING OF RURAL AREAS USING INDIGENOUS TECHNOLOGY (AMRIT) PROJECT

A dense network with 1400 nodes of Sensor Ambient Air Quality Monitor (SAAQM) covering 539 and 826 block development offices respectively across the states of Bihar and Uttar Pradesh, was established. Partnership has been established with the state government departments in Bihar (BSPCB and rural development department) and Uttar Pradesh (Department of Ministry of Environment, Forest and Climate Change, UP Pollution Control Board and Department of Rural Development) for monitoring and mitigation. Unprecedented hyper-local air quality data has been collected starting April 2023 across the 2 states. Towards this endeavor, IIT Kanpur has also established first-of-its kind 3 colocation-calibration facilities to simultaneously evaluate 280-300 SAAQM.

Air quality disparities in Rural-Urban areas: The SAAQM network effectively captured fine-scale pollution patterns across various settlement types, revealing distinct pollution profiles in

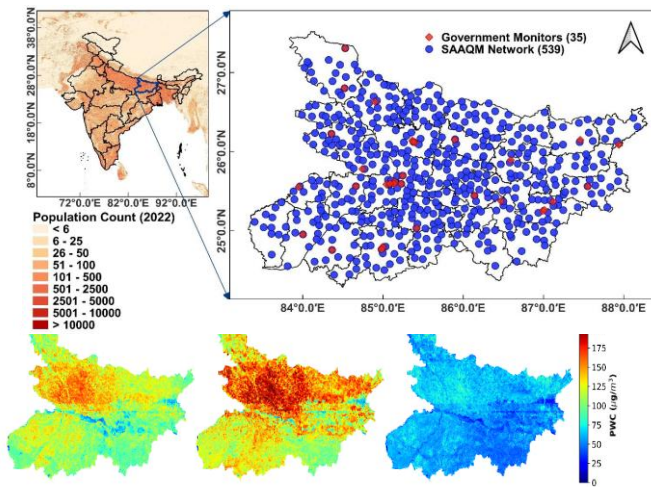
urban, suburban, small-town, and rural areas of both Uttar Pradesh and Bihar.

Air-Shed detection: We present a first data-driven framework for spatio-temporal clustering of $PM_{2.5}$ patterns across Uttar Pradesh and Bihar, leveraging the rapidly expanding low-cost sensor network in the region. The framework incorporates $PM_{2.5}$ and ventilation coefficient time series to delineate airsheds across the two states. Some of the results are published in the Environmental Science & Technology Journal.



Exposure and Health Risks: A clear north-south divide in $PM_{2.5}$ exposure over Bihar was observed, with northern districts having mean exposure levels 1.4 times higher. This study develops a high-resolution $PM_{2.5}$ exposure assessment framework for Bihar, India, using a dense low-cost sensor network integrated with satellite, meteorological, land-use, and demographic data through a two-stage machine learning approach.

Network Optimization: The optimization of the sensor is done by gridding the desired area and using a heuristic approach and greedy algorithm by using population density per sq. km data and PM_{2.5} emission data per sq. km. The optimal methodology is published in Atmospheric Measurement Techniques and Journal of Infrastructure Systems.



Hotspot detection: Utilizing advanced machine-learning algorithms such as XGBoost, and RT-RF model, we can discern patterns and relationships within the intricate spatial data, uncovering key factors influencing the distribution of PM_{2.5}. The article was published in Atmospheric Environment.

Forecasting of PM_{2.5}: A novel Spatio-Temporal Graph Neural Network architecture, that specifically captures these dependencies to forecast the PM_{2.5} concentration. The model is based

on an encoder-decoder architecture where the encoder and decoder parts leverage gated recurrent units (GRU) augmented with a graph neural network (TransformerConv) to account for spatial diffusion.

Development of Intelligent Decision Support System

(iDSS): Engagement in the development of a real-time intelligent decision support system for air quality governance in Urban Local Bodies. The platform is built on a strategically integrated multi-source observational framework, combining heterogeneous monitoring infrastructure deployed across urban geographies to achieve continuous spatial and temporal coverage beyond what any single monitoring modality can provide.

NATIONAL CENTRE FOR GEODESY

The National Centre for Geodesy (NCG) at IIT Kanpur was set up on July 1, 2019, with the support of the Department of Science and Technology (DST), Govt. of India. NCG is the first of its kind centre in India to support educational and research activities in the field of Geodesy. The Centre is established as a solution to the limited national-level education opportunities in the country on Geodesy and other allied areas. The primary objective of the NCG is to nucleate and strengthen the activities in geodesy education, capacity building, and academic research

and development. Aiming to act as a hub of excellence in teaching and research at the national and international levels, NCG conducts various activities to promote Geodesy by supporting PG programs, organizing short-term training courses, conferences, workshops, and schools, developing resource material and conducting R&D projects by setting up high-precision geodetic infrastructure, processing and analysis of geodetic data, and collaborating with various national and international organizations.

SIGNIFICANT ACHIEVEMENTS OF THE CENTRE (2025-2026):

- GeodCon-26, the First National Conference on Geodesy in India, was organized by NCG, IIT Kanpur in collaboration with the Regional Centres for Geodesy (RCGs) at INSA, New Delhi during March 11–13, 2026. The conference showcased recent advancements in geodetic science. It was inaugurated by Dr. Jitendra Singh, Honorable Minister for Science & Technology, Government of India. The inaugural session was graced by Prof. Abhay Karandikar, Secretary, DST, Padma Shri Dr. V. P. Dimri, Shri Hitesh Kumar S. Makwana, IAS, Surveyor General of India, Survey of India, and Dr. Manoranjan Mohanty, Head, NGP and Nano & Advanced Materials Division, DST.

- Installation of the first-ever IDS (International DORIS Service) station in India was successfully carried out at IIT Kanpur. A three-day surveying campaign was conducted in collaboration with IGN France experts to install the DORIS station, making IIT Kanpur one of the few global co-location sites for IGS and IDS infrastructure.
- At the IAG Scientific Assembly 2025 held in Italy, India contributed 11 research presentations, out of which 8 contributions were from NCG researchers and students.
- An NCG–RCG lecture series has been initiated to enhance collaborative learning and knowledge sharing among students, research scholars, and staff members of NCG and Regional Centres for Geodesy. More than 20 lectures have been conducted under this initiative.
- A national brainstorming workshop on “Next Generation GNSS Systems and the Ionosphere: Challenges and Opportunities” was organized at NCG, IIT Kanpur on July 21, 2025, with participation from ISRO, Survey of India, IITs, NITs, academia, and industry.
- Two specialized training programmes were organized for officials of the Survey of India on modern geodetic techniques, positioning infrastructure, and geodetic methods as part of NCG’s capacity-building initiatives.
- Prof. B. Nagarajan delivered keynote lectures at the National Conference on Geospatial Technologies for Viksit Bharat 2047 at Goa and at GeoSmart India 2025 held at Bharat Mandapam, New Delhi.

- Prof. Onkar Dikshit and Prof. B. Nagarajan delivered several invited lectures and technical sessions in programmes organized by various Regional Centres for Geodesy (RCGs).
- A bi-monthly review mechanism has been initiated among NCG and the Regional Centres for Geodesy to monitor progress, strengthen coordination, and align activities with the overall objectives of the national geodesy programme.
- NCG supported 12 students and research staff for national and international training, collaborative research, and participation in scientific conferences at institutions including TU Munich, CNES France, the IAG Scientific Assembly 2025 in Italy.

AIRAWAT RESEARCH FOUNDATION (ARF)

Airawat Research Foundation (ARF) is a Section 8 not-for-profit organization established at IIT Kanpur under the Government of India's initiative to create Centres of Excellence in Artificial Intelligence. ARF anchors the AI CoE for Sustainable Cities, in alignment with the Ministry of Housing and Urban Affairs (MoHUA), with a mandate to enable AI-led urban transformation in India.

INSTITUTIONAL ROLE

ARF serves as a national platform for translating advanced AI research into practical governance solutions, working at the intersection of technology, policy, and implementation. It brings together leading academic institutions and partners to support governments in addressing complex urban challenges through data-driven approaches.

FOCUS AREAS

ARF's work is centred on strengthening urban systems through AI-enabled solutions across key domains:

- Urban Governance: Decision-support systems, grievance analytics, and performance monitoring
- Mobility & Transport: Traffic management, congestion reduction, and safety analytics
- Environment & Air Quality: Monitoring, forecasting, and targeted interventions
- Intelligent Waste Management: AI-assisted Sorting & Recycling GVP Mitigation & waste collection
- Smart Infrastructure Inspection: Service optimization and operational efficiency
- Climate Resilience: Flood risk assessment and early warning support
- Energy Systems: Demand forecasting and infrastructure optimisation

These interventions are designed to enhance efficiency, transparency, and service delivery outcomes in cities.

ALIGNMENT WITH NATIONAL PRIORITIES

ARF's initiatives are aligned with key Government of India programmes such as Smart Cities Mission, AMRUT, Swachh Bharat Mission (Urban), National Clean Air Programme (NCAP), and Digital Public Infrastructure initiatives, supporting integrated and outcome-oriented urban development.

KEY ACHIEVEMENTS

Airawat has made notable progress in its mission to drive AI-led urban transformation. To date, ARF has signed over 10 MOUs, including partnerships with two state governments, a Jal Board, a Transport Corporation, a Smart City, and a State Authority, along with securing a paid engagement from the Municipal Corporation of Gurugram. ARF envisages that its AI-driven solutions will potentially impact over 20 million citizens by optimizing energy, mobility, air quality, and governance. These efforts are expected to enhance efficiency, reduce environmental impact, and improve quality of life, with a clear pathway toward multi-city and pan-India impact aligned with key Sustainable Development Goals.

OFFICE OF INTERNATIONAL RELATIONS (OIR)

NEW PARTNERSHIPS

During the academic year 2025-26, IIT Kanpur signed 13 new partnership agreements with leading universities across Asia, Europe, and North America. The new partnerships include:

Asia - (i) L. N. Gumilev Eurasian National University, Kazakhstan for cooperation in the areas of faculty and student exchange, joint research activities and exchange of academic materials and publications; (ii) Chiang Mai University, Thailand, for academic, research and scientific cooperation; (iii) VNU University of Engineering and Technology, Vietnam for cooperation in the areas of joint research activities and student internship; (iv) Ho Chi Minh City University of Economics and Finance, Vietnam for shared research and industry engagement in the areas of economics and finance; (v) Ho Chi Minh City University of Technology, Vietnam for cooperation in the areas of faculty and student exchange, and joint research activities; and (vi) Nazarbayev University, Kazakhstan for cooperation in exchange of research and teaching materials, Joint research activities.

Europe - (i) TU Wien (Vienna University of Technology), Austria for joint research and educational activities, faculty member exchange for research, lectures, symposiums; (ii) University of Galway, Ireland for cooperation to explore potential for Erasmus

funding for bilateral staff and student exchange, and co-operative teaching initiatives; (iii) University of Groningen, Netherlands for academic and research programs; (iv) Avignon University, France for cooperation in the areas of faculty and student exchange; and (v) Centrale Supélec, France for faculty and student exchange programs.

North America - (i) University of California San Diego, USA for faculty, scholar, researcher, personnel and student mobility; and joint research projects, collaborations and publications; (ii) University of Manitoba, Canada for research and educational activities such as exchange of faculty and researchers, exchange of students, short-term academic programs and joint research activities; and (iii) University of Guelph, Canada for academic and research programs.

VISITS OF FOREIGN DELEGATIONS TO IIT KANPUR

Several foreign university delegations visited IIT Kanpur in 2025-26 to discuss possibilities for academic and research collaborations. Many of these visits have led to fruitful relationships between IIT Kanpur and the partner university abroad, and some visits are part of ongoing collaborations.

From Asia: (i) Delegations from KOBE University, Japan and Japan Science and Technology Agency (JST) visited IIT Kanpur in 2025-26. (ii) In July 2025, a delegation from the University of Malaya, Malaysia visited IIT Kanpur to explore areas of possible

collaboration. (iii) In September and October 2025 respectively, delegations from Vietnam National University (VNU) and Ho Chi Minh City University of Technology visited IIT Kanpur to foster academic and research cooperation in multiple cutting-edge fields. Both visits resulted in MoUs being signed between IIT Kanpur and the visiting Vietnamese university. (iv) In December 2025, a delegation from Kathmandu University, Nepal visited IIT Kanpur to explore avenues for faculty exchange, and joint research collaborations.

From Canada: Delegations from the University of Manitoba and the University of Guelph visited IIT Kanpur, leading to the signing of formal partnership agreements.



MoU Signing between IITK and the University of Guelph

From the USA: A delegation from the FAMU–FSU College of Engineering, Florida visited IIT Kanpur with the aim of strengthening academic and scientific collaboration between the two institutions. The meeting and the ensuing discussions led to selection of four faculty members (Prof. Debopam Das, Prof. Tufan Guha, Prof. Mohammad Ibrahim Sugarno and Prof. Rajesh

Ranjan) from Department of Aerospace Engineering, IIT Kanpur for the inaugural Visiting Scholars Partnership Program (VSPP).

OVERSEAS VISITS OF IIT KANPUR DELEGATIONS

USA

The IIT Kanpur Karvaan delegation visited the United States in October 2025 as part of its ongoing efforts to strengthen international academic collaborations. The delegation led by Prof. Manindra Agrawal, Director, IIT Kanpur; including Prof. Sandeep Verma, Professor-in-Charge, Gangwal School of Medical Sciences and Technology; and Prof. Bushra Ateeq, Dean of International Relations, visited the University of California San Diego (UCSD). The meeting at UCSD was facilitated by Prof. Rajesh Kumar Gupta, Dean of the School of Computing,



IITK Delegates during the Visit to UCSD

Information and Data Science. Discussions focused on enhancing strategic collaboration in the areas of artificial intelligence, medicine and health, and sustainability.

During this visit, Prof. Ateeq also held interactions with representatives from Texas A&M University (TAMU) and Rice University to explore potential avenues for academic and research collaborations. The discussions focused on identifying shared areas of interest, strengthening institutional ties, and examining possibilities for faculty exchange, joint research initiatives, and broader academic engagement between the institutions.

Prof. Bushra Ateeq, along with Prof. Niraj Sinha from the Department of Mechanical Engineering, IIT Kanpur also visited New York University (NYU) on 4 December 2025. During the visit, they engaged in insightful discussions with Prof. Katsuo Kurabayashi, Chair of Mechanical and Aerospace Engineering, along with Prof. Nikhil Gupta and Prof. Ramesh Karri, Chair of the Electrical and Computer Engineering Department at NYU. The dialogue focused on broadening the scope of the dual degree program between IIT Kanpur and NYU's Tandon School of Engineering.

Thailand & Vietnam

IIT Kanpur and Chiang Mai University (CMU), Thailand signed an MoU on 2 June 2025 during a visit to Thailand by Prof. Ashish Garg, Head, Department of Sustainable Engineering, IIT Kanpur.

Prof. Garg also visited Vietnam in June 2025, to engage with over 20 leading universities. Discussions during the visit centered on collaborative research in emerging fields like Artificial Intelligence, semiconductors, and sustainability, as well as student and faculty mobility programs.

ALL IIT INTERNATIONAL RELATIONS CONCLAVE 2025

The All IIT International Relations Conclave 2025 was hosted by IIT Jodhpur on 3-4 October 2025. The program included discussions on internationalization policies, student and faculty mobility and global partnerships. The Conclave also invited distinguished speakers and experts from Study in Greece, German Academic Exchange Service, and EURAXESS India. IIT Kanpur was represented at the Conclave by Mr. Lokesh, Junior Assistant, Office of International Relations.

HERITAGE NETWORK GENERAL ASSEMBLY MEETING

The 9th Heritage Network General Assembly meeting took place at IIT (ISM) Dhanbad on 2-3 March 2026, bringing together representatives from member universities across Europe and India. At this meeting, IIT Kanpur was represented by Prof. Mohammad Ibrahim Sugarno, Department of Aerospace Engineering.

The meeting facilitated both academic dialogue through presentations by the Network's member universities, as well as strategic planning for the Network's future direction.

NEW HOSTEL FOR INTERNATIONAL STUDENTS

A new hostel accommodation on the IIT Kanpur campus, with a comfortable living space for our global student community, was inaugurated in 2025. The facility features 32 fully-furnished, air-conditioned rooms equipped with modern amenities and a shared kitchen space.

GRADUATION OF INTERNATIONAL STUDENTS

On 23rd June 2025, 9 international master's students proudly graduated at the 58th Convocation of IIT Kanpur, marking a day of pride, joy, and cherished memories. Out of the 9 graduating students, 8 were enrolled in MTech programs and 1 in the MBA program across departments such as Aerospace Engineering, Biological Sciences and Bioengineering, Computer Science and Engineering, Sustainable Energy Engineering, and Management Sciences. Additionally, 3 PhD students from Jordan also graduated in the AY 2025-26.

LOTUS PROGRAMME BY JAPAN SCIENCE & TECHNOLOGY AGENCY

The LOTUS Programme supports talented young researchers from India to participate in research exchanges in Japan. The programme aims to strengthen Japan-India joint research efforts by fostering collaborations between research institutions in India and Japan.

Eight students from IIT Kanpur have been selected for the LOTUS Fellowship in the FY 2025 call. The awarded research projects span diverse domains including AI-driven materials design, advanced manufacturing, energy storage, computational chemistry, fluid mechanics, and biomedical sciences. These collaborations involve premier Japanese institutions such as RIKEN, Kyoto University, Osaka University, Okayama University, Institute of Science Tokyo, National Institute for Materials Science, and Tokyo University of Agriculture and Technology.

FOREIGN STUDENTS AT IIT KANPUR

IIT Kanpur is currently hosting 62 foreign students from countries such as Bangladesh, Indonesia, Syria, Ethiopia, Iran, Nepal and Myanmar. Out of the 62, 28 are pursuing a PhD degree and 34 are enrolled in Master's program at IIT Kanpur.

Additionally, 12 students from the UK, Sri Lanka, Zimbabwe and Nepal visited IIT Kanpur in AY 2025-26 for internship. Six students from Newcastle University, UK spent three weeks at IIT

Kanpur, interning with faculty in the Department of Mathematics & Statistics.

RISE @ IIT KANPUR INTERNSHIP PROGRAM

In September 2025, the Office of International Relations launched a new internship program for foreign students, titled “Research Internships in Science & Engineering (RISE) @ IITK”. The Program includes a 4-week virtual winter internship in December 2025 and a 6-8 week in-person summer internship between May to July 2026. The Program has been initiated to give foreign students, especially those from the ASEAN and Southeast Asian countries, an opportunity and a pathway to experience the research environment at IIT Kanpur. IIT Kanpur would support 12 students with a stipend along with boarding for the duration of the summer internship.

OIR released a call for applications for the winter internship in September 2025, where projects under 22 faculty at IIT Kanpur were shared. Applications from eligible students were received from countries such as Vietnam, Indonesia, Sri Lanka, Japan, Bhutan, Syria, Nepal, Bangladesh, Chad, Somalia and Madagascar. After screening, 32 students were selected for the virtual internship.

Similarly, 12 students are shortlisted and supported by the Institute for the summer internship. These students, from Nepal, USA, Madagascar, Myanmar, South Korea, Sri Lanka and

Syria, will be working with faculty mentors at IIT Kanpur on research projects for 6-8 weeks between May and July 2026.

INTERNATIONAL STUDENTS' ORIENTATION

During Semester 1 of AY 2025-26, 21 new foreign students joined IIT Kanpur for full-time degree programs. To welcome them, an orientation program was held on 12 August 2025, featuring informative sessions aimed at helping the students integrate smoothly into campus life.



OTHER ACTIVITIES

OIR organized several fun activities for international students, like Happy Hour sessions to bring students together for an hour full of fun and games and Holi, Diwali, Christmas, and Eid celebrations organized, with traditional delicacies and festive activities.

OIR also launched its third batch of Hindi classes for foreign students on 6 November 2025. These classes are thoughtfully designed to enhance students' communication skills both on campus and in everyday life.

ITEC COURSES

In 2025-26, IIT Kanpur organized following two courses under the Indian Technical and Economic Cooperation Programme (ITEC), the leading capacity building platform by the Ministry of External Affairs, Government of India.

- Space Mission Design, Analysis and Operations (July 2025) – by Prof. Dipak Giri
- Robotics (March 2026) – by Prof. Ashish Dutta

These short-term courses were aimed specifically at working professionals from ITEC partner countries such as Ecuador, Ethiopia, Ghana, Malawi, Mauritius, Nigeria, Rwanda, Sri Lanka, Tanzania and Zimbabwe. Over 30 students participated in these courses held offline at IIT Kanpur.

DEAN OF RESOURCES & ALUMNI

Out of the total amount of ₹ 576 Crores pledged by the donors in FY 2025-26, an approximate sum of ₹187 Crores has been realised, as compared to an approximate ₹ 161 Crores received in the FY 2024- 25, and the balance is expected to be received based on the milestones achieved as set by the donors in the next 2-3 years.

MAJOR INITIATIVES IN FY 2025-26

Purpose	Donor Name	Amount Received in ₹ (Crores)
Kotak School of Sustainability	Kotak Mahindra Bank Ltd.	26.29
Gangwal School of Medical Sciences and Technology	- Mr. Anil Bansal - JK Cement Ltd. - Pehel Foundation	24.73
AI CoE for Sustainable Cities	Google.org	17.89
ICICI Foundation Digital Health Stack	ICICI Foundation for Inclusive Growth	11.96
Construction of New Hall Residence for Students	AIA Engineering Ltd. (Mr. Bhadresh Kantilal Shah BT/MME/1974)	9.75
Translational and Transformative Training and Investigations Lab at CSE	Citadel Securities India Markets Pvt. Ltd.	6.61

To provide support for Academic Exchanges: Energy Modelling and Decarbonization	Schmidt Sciences, LLC	4.86
Wadhwani School of AI & Intelligent Systems	Wadhwani Charitable Foundation	4.48
Strengthening Disaster Management, Public Safety and Food Quality Monitoring	Uttar Pradesh Power Transmission Corporation Ltd.	4.21
Enhancing Worker Safety, Disaster Preparedness and Secure Communication in Critical Infrastructure	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	4.00
Lab setup in Uttarakhand Colleges	Government of Uttarakhand	4.00
PFI Distinguished Chair Professorship on Power Sector Regulation and Policy	Power Foundation of India	3.00
MER and sEEG electrode development	Mr. Senapathy Gopala-krishnan	2.46
Social Innovation Lab 3.0	Citibank	2.25
SBIF LEAP Innovators for Bharat: Innovation for Social Good	SBI Foundation	2.25
Future Secure AI Innovation Program (FSAI)	Shibodhi Foundation (Dr. B. V. R. Mohan Reddy - MT/ME/1974)	2.05
NMTronics Center of Excellence for Electronics Manufacturing and Skills Development	Nmtronics India Pvt. Ltd.	1.91

Jeet Bindra AI in Engineering Science Lab	Mr. Jagjeet S. Bindra (BT/CHE/1969)	1.94
Wadhvani Innovation Network Centre	Wadhvani Charitable Foundation	1.35
LKL (Lalita and Krishan Lal Bhatia) Chair	Mr. Ashish Bhatia (BT-MT/ EE 2010)	1.32
Novel sensor-based platform for diagnostics	Gates Foundation	1.32
Professor M. S. Ananth NPTEL Faculty Chair	NPTEL	1.25
Professor V. Rajaraman NPTEL Faculty Chair	NPTEL	1.25
Establishing Two dedicated 8-bed EWS Bay	Aptiv Components India Pvt. Ltd.	1.05
GROWW Scholar Program	Billionbrains Garage Ventures Ltd.	1.04
Hitkarini Tiwari Technology X Challenge (HT2X Challenge)	Prof. Sandip Tiwari (BT/EE/1976)	1.01

ALL TIME DONORS

Chairman's Circle ₹ (10 Crores+)	
Name	Purpose
 Dr. Romesh Wadhvani Wadhvani Foundation (Non-Alumni)	Wadhvani School for AI & Intelligent Systems
 Mr. Rakesh Gangwal Alumni (BT/ME/1975)	- Champa Devi Gangwal Chair - Gangwal School of Medical Sciences and Technology
 Mr. Lokvir Kapoor Alumni (BT/ME/1987)	- Director's Scholarship (Endowment Scholarship) - Diamond Jubilee IIT Kanpur - Bright Minds Scholarship Programme - Student Activity Centre 2 and Central Dining Facility

 Mr. Bhadresh Shah Alumni (BT/MME/1974)	▪ Construction of New Hall of Residence for Students ▪ Scientific Research
 Mr. Narayana Murthy Alumni (MT/EE/1969)	▪ N Rama Rao Chair ▪ K. A. Padmanabhan Fund ▪ CSE Funds ▪ Dr. Padmanabhan Foreign Travel ▪ Students Activities ▪ Infosys Fellowship ▪ Prof. N. C. Nigam Chair ▪ Alumni Convention at Bangalore ▪ Prof. R. N. Biswas Faculty Chair ▪ Prof. T. R. Viswanathan Chair
 Dr. Dev Joneja Alumni (BT/ME/1984)	▪ 1984 Class Fund ▪ Arjun Dev Joneja Faculty Chair in Civil Engineering ▪ Enable Online Education ▪ Campus Worker Fund ▪ Pavitar Joneja Chair ▪ Gangwal School of Medical Sciences and Technology ▪ Annual Gift Programme

 Mr. Muktesh Pant Alumni (BT/CHE/1976)	▪ 1976 Class Fund ▪ Annual Gift Programme ▪ Gangwal School of Medical Sciences and Technology ▪ Shivani Centre for Nurture and Reintegration of Hindi and Other Indian Languages
 Mr. Anil Bansal Alumni (BT/MME/1977)	▪ CORPUS Fund ▪ Mess Workers' Pension Fund ▪ Annual Gift Programme ▪ Sevathan ▪ Gangwal School of Medical Sciences and Technology ▪ Lalit Beniwal Memorial Fund
 Mr. Sudhakar Kesavan Alumni (BT/CHE/1976)	▪ Centre for Energy Policy and Climate Solutions ▪ Contribution 1976 Class

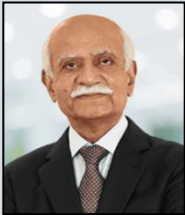
 Mr. Hemant Jalan Alumni (BT/CHE/1977)	▪ Prayas Fund ▪ 1977 Class Fund ▪ Enable Online Education ▪ Gangwal School of Medical Sciences and Technology
 Mr. Rahul Mehta (The Mehta Family Foundation) Non-Alumni	▪ The Mehta Family Centre for Engineering in Medicine
 Late Dr. Ranjit Singh Alumni (BT/MME/1965)	▪ Sachchidanand Memorial Fund ▪ Ranjit Singh Foundation ▪ Dr. Ranjit Singh Rozi Shiksha Kendra

 Prof. Chandralekha Singh & Prof. Jeremy Levy Non-Alumni	▪ Opportunity School Building
 Mr. Jagjeet S. Bindra Alumni (BT/CHE/1969)	▪ IIT Kanpur Alumni Association Activity Fund ▪ CHE Department Fund ▪ Mr. & Mrs. Gian Singh Bindra Chair ▪ CHE Modernization of the Unit Operations Laboratory (UOL) and the Workshop Facility ▪ Enable Online Education ▪ 1969 Class Fund ▪ Chevron for Travel Support ▪ Chevron Corporation Chair ▪ Annual Gift Programme ▪ Mr. and Mrs. Gian Singh Bindra Faculty Research Fellowship ▪ Prof. C. V. Seshadri Memorial Distinguished Lectures Series ▪ Modernizing Undergraduate Chemical Lab Facilities ▪ Centre for Development skill Student Conference in CHE ▪ Foundation for CHE ▪ Magazine NERD ▪ Jeet Singh Bindra Scholarship for Female Students

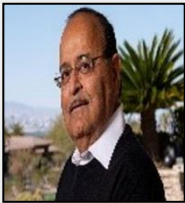
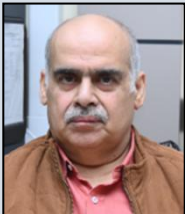
	▪ Jeet Singh Bindra Distinguished Lecture Series ▪ Post Graduate Research Lab in CHE ▪ Jeet Singh Bindra Graduate Students Lounge ▪ Jeet Bindra AI in Engineering Science Lab ▪ Jeet Singh Bindra Centre of Excellence in Speciality Chemicals
 Mr. Vikram Tannan Non-Alumni	▪ Gangwal School of Medical Sciences and Technology

Director's Circle ₹ (5-10 Crores)	
Name	Purpose
 Ms. Asha Jadeja Non-Alumni	▪ Rajeev Motwani CSE Building

 Dr. Prabhakar Goel Alumni (BT/EE/1970)	▪ IIT Kanpur TRUST (for Dr. Prabhu Goel Chair) ▪ Computer Security ▪ Prof. N. C. Nigam Chair ▪ Prof. R. N. Biswas Faculty Chair ▪ Prof. T. R. Viswanathan Chair
 Mr. Pawan Tewari Alumni (BT/EE/1988)	▪ The Pawan Tewari Goldman Sachs Sustainability Faculty Chair ▪ The Pawan Tewari Goldman Sachs Scholarships ▪ Pawan Tewari Goldman Sachs Endowment Towards AI For Social Good
 Mr. Ranodeb Roy Alumni (BT/CSE/1990)	▪ 1990 Class Fund ▪ V. Srinivasan Memorial Fund ▪ Annual Gift Programme ▪ Sajani Kumar Roy Memorial Chair ▪ Protima Ghosh Memorial Scholarship ▪ IIT Kanpur 90 Initiative ▪ Dr. Mahua Menon and Mr. Ranodeb Roy Young Faculty Research Fellowship ▪ Student with Disability Project ▪ Enable Online Education ▪ IIT Kanpur Development Foundation ▪ Manish Bhatnagar Memorial Fund ▪ Covid-19 Relief Fund

 Ms. Nirmala Govindan Non-Alumni	▪ Late Jay Pullur Memorial Fund
 Dr. B. V. R. Mohan Reddy (Shibodhi Foundation) Alumni (MT/ME/1974)	▪ Dr. B. V. R. Reddy Family Foundation ▪ Future Secure AI Innovation Program (FSAI)
 Dr. Deepak Mohan Narula Alumni (BT/EE/1985)	▪ Gangwal School of Medical Sciences and Technology

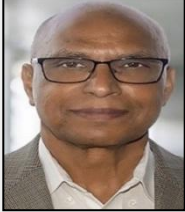
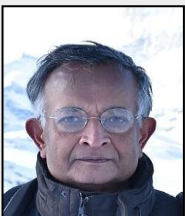
Dean's Circle ₹ (1-5 Crores)

Name	Purpose
 Dr. Rajiv Batra Alumni (BT/EE/1982)	▪ Annual Gift Programme ▪ EE Department Fund ▪ Campus Worker Fund ▪ IIT Kanpur Development Foundation ▪ Prof. R. N. Biswas Faculty Chair ▪ Contribution 1982 Class ▪ Rajiv and Ritu Batra Endowed Chair for Cybersecurity
 Mr. Ajay Dubey Alumni (BT/CHE/1980)	▪ 1980 Class Fund ▪ Mrs. Madhuri Dubey Scholarship and Mrs. Vidyawati Dubey Scholarship ▪ Rooma & Ajay Dubey Healthcare Innovation and Ideation Program ▪ Lalit Beniwal Memorial Fund
 Dr. Devendra Shukla Alumni (BT/CE/1967)	▪ 1967 Class Fund ▪ Devendra Shukla 1967 Lecture Series ▪ Shri D. P. Shukla Scholarship ▪ Devendra Shukla Young Faculty Research Fellowship ▪ Shiv Kumari Shukla Scholarship ▪ Annual Gift Programme ▪ International Conference on Environment and Technology ▪ Enable Online Education ▪ Batch of 1967 Scholarship

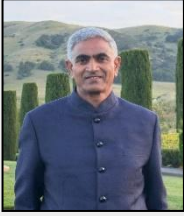
 Mr. Ashish Karandikar Alumni (BT/EE/1995)	▪ Smt. Lata and Shri K. G. Karandikar Faculty Chair ▪ Karandikar Best PhD Thesis Award ▪ Karandikar Student Scholarship ▪ Enable Online Education ▪ Annual Gift Programme
 Dr. Kal Shastri Alumni (MSC2/PHY/1976)	▪ Prof. T. R. Viswanathan Chair
 Late Mr. Kushal Sacheti Alumni (MT/CHE/1972)	▪ P. K. Kelkar Chair ▪ Faculty Recruitment Fund ▪ English Proficiency Programme ▪ Interim Innovation Centre ▪ SIDBI ▪ Juggaad ▪ Opportunity School Fund

 Mr. Sudhir Mohan Mittal Alumni (BT/CHE/1970)	▪ SUKRITI Research Grant ▪ Opportunity School Fund ▪ Corporate Research Fund ▪ Dr. Jag Mohan Garg Chair ▪ Shiksha Sopan ▪ Enable Online Education ▪ Smt. Savitri Devi Memorial Scholarship ▪ Batch of 1965 Scholarship ▪ Donate to Gym Expansion and Upgrade ▪ Shri Trilok Chandra Memorial Scholarship
 Mr. Alok Agarwal Alumni (BT/EE/1979)	▪ Shri Ram Sahai Agarwal Scholarship, Smt. Vidyawati Agarwal Scholarship and Smt. Tara Ghate's Scholarship ▪ Class of 1979 (Infrastructure Fund) ▪ Neela Namjoshi Scholarship ▪ Pramodini Agarwal Scholarship ▪ Class of 1979 Young Faculty Fellowship ▪ Covid-19 Relief Fund
 Prof. Jainendra Navlakha Alumni (MT/EE/1974)	▪ Jainendra Navlakha (1974) Chair

 Mr. Senapathy Gopalakrishnan Non-Alumni	▪ MER and sEEG electrode development
 Dr. Manas Mandal Alumni (BT/CSE/1985)	▪ Soma and Manas Mandal Chair ▪ Manas Mandal Student Scholarship ▪ Manas Mandal Best PhD Thesis Awards
 Dr. Rajeev Gautam Alumni (BT/CHE/1974)	▪ Campus Worker Fund ▪ Covid-19 Relief Fund ▪ Rajeev and Joyce Gautam Student Travel Grant in CHE ▪ Om Prakash Gautam Faculty Chair in CHE

 Mr. Rao Remala Alumni (MT/CSE/1975)	▪ CSE Department Travel Grant ▪ Annual Gift Programme ▪ Satya and Rao Remala Foundation chair
 Mr. Srinath Anantharaman Alumni (BT/EE/1980)	▪ The Humanities-Technology Bridge: A Tribute to Prof. Mahajan & Prof. Dhanagare ▪ Annual Gift Programme ▪ 1980 Class Fund ▪ Enable Online Education ▪ Student Welfare Activities
 Prof. Sandip Tiwari Alumni (BT/EE/1976)	▪ Hitkarini Tiwari Technology X Challenge (HT2X Challenge) ▪ Prof. R. N. Biswas Faculty Chair ▪ Prof. U. B. Tewari Memorial Fund
 Dr. Pawan Kumar Goenka Alumni (BT/ME/1975)	▪ Pawan Kumar Goenka Chair

 Mr. Manoj Singh Alumni (BT/EE/1974)	▪ Dr. T. B. Singh Scholarship ▪ Smt. Kusum Singh Scholarship
 Dr. Shishpal Singh Rawat Alumni (BT/EE/1979)	▪ IIT Kanpur Swastibhavatu Lecture Series supported by Rawat Family Trust ▪ Kedar Singh Rawat Memorial Scholarship, Bachi Devi Rawat Memorial Scholarship ▪ Class of 1979 (Infrastructure Fund) ▪ Annual Gift Programme
Karmakar Foundation Philanthropic Foundation	▪ Kaira Karmakar Memorial Scholarship Program
 Mr. Ashish Bhatia Alumni (BT-MT/EE/2010)	▪ LKL (Lalita and Krishan Lal Bhatia) Chair

 Late. Dr. Rathin Datta Alumni (BT/CHE//1970)	▪ Biochar Project
 Mr. Murthy Ayyagari Alumni (BT/EE/1973)	▪ Annual Gift Programme ▪ 1973 Class Fund ▪ Ayyagari Satyanarayana Rao Memorial Student Travel Grant ▪ Ayyagari Satyanarayana Rao Memorial Young Faculty Fellowship ▪ Prof. R. N. Biswas Faculty Chair
 Mr. Suresh Bazaj Alumni (MSC2/PHY/1971)	▪ Toastmasters Club
 Mr. Madhu Kiran Alur Alumni (BT/MME/1991)	▪ Annual Gift Programme ▪ V. Srinivasan Memorial Fund ▪ 1990 Class Fund

CORPORATE PARTNERS IN FY 2025-26

Contributions above ₹ 10 Crores		
1	Kotak Mahindra Bank Ltd.	Kotak School of Sustainability
2	ICICI Foundation for Inclusive Growth	ICICI Foundation Digital Health Stack
Contributions ₹ 5-10 Crores		
1	JK Cement Ltd.	Gangwal School of Medical Sciences and Technology
2	AIA Engineering Ltd.	Construction of New Hall Residence for Students
3	Pehel Foundation	Gangwal School of Medical Sciences and Technology
4	Citadel Securities India Markets Pvt. Ltd.	Translational and Transformative Training and Investigations Lab at CSE
Contributions ₹ 1-5 Crore		
1	Uttar Pradesh Power Transmission Corporation Ltd.	Strengthening Disaster Management, Public Safety and Food Quality Monitoring
2	Uttar Pradesh Rajya Vidyut Utpadan Nigam Ltd.	Enhancing Worker Safety, Disaster Preparedness and Secure Communication in Critical Infrastructure
3	Nmtronics India Pvt. Ltd.	NMTronics Center of Excellence for Electronics Manufacturing and Skill Development
4	Citibank	Social Innovation Lab 3.0

5	SBI Foundation	SBIF LEAP Innovators for Bharat: Innovation for Social Good
6	Aptiv Components India Pvt. Ltd.	Establishing Two dedicated 8-bed EWS Bay
7	Billionbrains Garage Ventures Ltd.	GROWW Scholar Program
Contributions ₹ 10 Lakhs – 1 Crore		
1	Portescap India Pvt. Ltd.	Hemo-compatible surfaces for Left Ventricular Assisted Devices (LVADs), Extension of rotary actuation system to high frequency manipulation of Robotic Systems, Transforming Cardiovascular Care: The Case for Indigenous P-MCSD Development
2	Tower Research Capital Markets India Pvt. Ltd.	Developing AI/ML for India and for the social good
3	Kewal Engineering Pvt. Ltd.	Skilling Leather Stitchers: A program for rural youth
4	Philip Morris India Trading Pvt. Ltd.	Design & Development Centre at Rozi Shiksha Kendra
5	M/s. Realme Mobile Telecommunications (India) Pvt. Ltd.	Realme Cyber Suraksha
6	Castrol India Ltd.	Advancing Cleaner Engine Technology through LSPI Research for Global Sustainability, Research on Performance Enhancers for Sustainable Engine Solutions

7	Crubn Foundation	Digital Forensics Laboratory
8	Microsoft Philanthropy	India-specific digital skills training and assessments: K-12 teachers and bureaucrats
9	TCS Foundation	TCS Research Scholar Program
10	BP India Pvt. Ltd.	Developing and Demonstrating an Irrigated Satellite
11	Arista Networks India Pvt. Ltd.	MTech Fellowship Program for Female Students
12	RIICO Ltd.	Centre of Excellence for Innovation in Basic Education (STEM labs)
13	Hindustan Copper Ltd.	HCL SATHEE (Self-Assessment, Test, and Help for Entrance Exams) Scheme
14	Balrampur Chini Mills Ltd.	Mechanical Recycling Calculator (MRC)
15	Brisk Electronics Pvt Ltd.	Scientific Research
16	Shree Foundation Trust	Combined Scholarship for UG Students
17	Higher Education Financing Agency	Scientific Research
18	ANSYS Software Pvt. Ltd.	Promote education among Master's students
19	CSI Engineering Software Pvt. Ltd.	NICEE
20	Hindon Filters Pvt. Ltd.	Hall 1 Renovation
21	Sahasra Electronics Pvt. Ltd.	1972 Golden Jubilee Legacy Project
22	J. K. Fenner (India) Ltd.	Scientific Research
23	AlphaGrep Securities Pvt. Ltd.	AlphaGrep Scholarship Program
24	Kapilansh Vyapaar Pvt. Ltd.	Combined Scholarship for UG Students

25	Miraj Business Development Pvt. Ltd.	Combined Scholarship for UG Students
26	SK Finance Ltd.	Combined Scholarship for UG Students
27	STCI Primary Dealer Ltd.	Procurement of Digital Podium for the ESB-3 classroom and a Polarized Light Microscope
28	Frontier Alloy Steel Ltd.	Scientific Research
29	Manglam Build Developers Ltd.	Team Motorsports Fund
30	Endress+Hauser (India) Pvt. Ltd.	To support the Industrial Design R&D and Prototyping Studio in the DES
Contributions below ₹ 10 Lakhs		
1	Faiveley Transport Rail Technologies India Pvt. Ltd.	Material Safety in Railways and Tankers
2	Qualtech Consultants Pvt. Ltd.	Solar-driven manufacturing with geomaterials – Solar concentrator
3	Rahman Industries Ltd.	Udghosh
4	Khanna and Khanna Ltd.	Scientific Research
5	SRC Chemicals Pvt. Ltd.	Design and Optimization of Mould Flux Chemistries for Continuous Casting of Challenging and Innovative Steel Grades
6	Logic Fruit Technologies Pvt. Ltd.	Gangwal School of Medical Sciences and Technology
7	The National Academy of Sciences, India (NASI)	Shiksha Sopan
8	PNC Infratech Ltd.	Scientific Research
9	TVM Signalling and Transportation Systems Pvt. Ltd.	Inclusive growth and community welfare initiative

10	Prachi Leathers Pvt. Ltd.	Class 1978 legacy project
11	Apollo Heat Exchangers Pvt. Ltd.	Class of 1974-Chemical Engineering Development Fund
12	Integra Datatech Pvt. Ltd.	Scientific Research
13	Pradeep Metals Ltd.	Antaragni 2025
14	Raramuri Technology Pvt. Ltd.	Scientific Research
15	AAP Global Capability Center LLP	Towards Manufacturing IIT Kanpur Inaugural Formula Electric Vehicle
16	Team Computers Pvt. Ltd.	Dr. Ranjit Singh Rozi Shiksha Kendra
17	Raj Corporation Ltd.	Antaragni 2025
18	Stores Supply (India) Agency Pvt. Ltd.	Procurement of a High-Performance Computer System for Finite Element Analysis Based Training in Semiconductor Packaging Reliability

ALUMNI IMPACT

Major Awards & Honours received by our Alumni (June 2025–May 2026)

Name	Award/ Honour	Award Endowed by
Prof. Viney Aneja (BT/CHE/1971)	GESA, 2025 Senior Scientist Award & Gold medal	Global Environment and Social Association (GESA)
Prof. Prakash Panangaden (MSC5/PHY/1975)	Fellow of the Royal Society (Elected in 2025)	The Royal Society Council, UK

Prof. Ashoke Sen (MSC2/PHY/1978)	International Honorary Member of AAA&S	The American Academy of Arts & Sciences, Board of Directors
Prof. H. C Verma (MSC2/PhD/PHY/1978/1981)	Fellow of the National Academy of Sciences, India	National Academy of Sciences, India
Prof. Jitendra Malik (BT/EE/1980)	Fellow of the Royal Society (Elected in 2026)	The Royal Society Council, UK
Prof. Rajiv K. Varma (BT/PhD/EE/1980/1988)	Fellow of the Engineering Institute of Canada 2026	Engineering Institute of Canada
Prof. Sanjiva Lele (BT/ME/1980)	Fellow of the American Institute of Aeronautics & Astronautics	American Institute of Aeronautics & Astronautics
Dr. K. Balasubramanian (BT/MME/1982)	Padma Shri Award	Government of India
Prof. Nitash P. Balsara (BT/CHE/1982)	Elected to the National Academy of Engineering	National Academy of Engineering, USA
Mr. Sanjiv Puri (BT/ME/1985)	Featured in MIT Sloan Management Review list of India's Top 100 Influential People in Technology and Innovation	MIT Sloan Management Review India
Prof. Manindra Agrawal (BT/PhD/CSE/1986/1991)	Fellow of the Royal Society (Elected in 2026)	The Royal Society Council, UK

Prof. Sanjay Mittal (BT/AE/1988)	Elected as Vice-President (Publications) of INAE	Indian National Academy of Engineering (INAE)
	Fellow of IndACM	Indian Association for Computational Mechanics (IndACM)
Dr. Rajat Mittal (BT/AE/1989)	Fellow of the American Association for the Advancement of Science	American Association for the Advancement of Science
Dr. Inder Monga (BT/EE/1990)	Featured on the cover of EdgeDiscovery 2025	Edge
Prof. Anantharam Raghuram (BT/CSE/1992)	Simons Fellowship	Simons Foundation
Prof. Mahan Mj (MSC-5 / MTH & STAT /1992)	Vigyan Shri Award, 2025	Government of India
Ms. Apra Sekhon (MSC-2/STAT/1994)	Top Tech Leader of the Year 2025 (Small Cap) at the Canada-India Tech Council 2025	Canada-India Tech Council

Mr. Ashwini Vaishnaw (MT/IME/1994)	Featured in MIT Sloan Management Review list of India's Top 100 Influential People in Technology and Innovation	MIT Sloan Management Review India
Prof. Jayant K. Singh (BT/CHE/1997)	Fellow of the Indian National Science Academy (INSA)	Indian National Science Academy (INSA)
	Joined as an Associate Editor of the Journal of Chemical & Engineering Data (ACS Publications)	Journal of Chemical & Engineering Data (ACS Publications)
Prof. Animangsu Ghatak (MT/CHE/1998)	J C Bose Grant	Anusandhan National Research Foundation (ANRF).
Mr. Atul Agarwal (BT/ME/1998)	Top Tech Leader of the Year for Innovation in Technology at the Canada-India Tech Council 2025	Canada-India Tech Council
Mr. Neeraj Mathur (MSC-5 / MTH & STAT /1999)	Member of the Year 2025 for his impactful work in Finance and Innovation	Canada-India Tech Council
Dr. Puneet Agarwal (BT/CE/2000)	Fellow of the American Society of Civil Engineers (ASCE)	American Society of Civil Engineers

Mr. Saurabh Tiwari (BT/MME/2000)	Featured in MIT Sloan Management Review list of India's Top 100 Influential People in Technology and Innovation	MIT Sloan Management Review India
Prof. Yogesh Singh Chauhan (MT/EE/2003)	Fellow of the Indian Academy of Sciences	Indian Academy of Sciences
Prof. Ashoke De (MT/AE/2005)	Fellow of the Indian National Academy of Engineering	Indian National Academy of Engineering (INAE)
	Fellow of the Institution of Engineers (India) in the Aerospace Engineering Division	Institution of Engineers (India)
Prof. Janardhan Rao (Jana) Doppa (MT/CSE/2006)	Distinguished Member by the Association for Computing Machinery (ACM)	Association for Computing Machinery
Prof. Arkaprava Basu (BT/CSE/2007)	Vigyan Yuva-Shanti Swarup Bhatnagar (VY-SSB) award 2025	Government of India
Dr. Mohit Bansal (BT/CSE/2008)	Fellow of the Association for Computational Linguistics (ACL)	Executive Committee of Association for Computational Linguistics
Dr. Karthik Nayani (BT/CHE/2009)	NSF Career Award	US National Science Foundation
Prof. Eshan Chattopadhyay (BT/CSE/2011)	Co-awarded the prestigious Gödel	European Association for Theoretical Computer Science

	Prize for the year 2025	(EATCS) & Association for Computing Machinery Special Interest Group on Algorithms and Computation Theory (ACM SIGACT)
Prof. Subhradeep Roy (MT/ME/2012)	NSF CAREER Award	US National Science Foundation
Prof. Anupam Bera (MSC2/CHM/2013)	Young Associate Fellow of the Indian Academy of Sciences (IAS), Bengaluru	Indian Academy of Sciences (IAS), Bengaluru
Dr. Mrityunjay Kothari (BT/ME/2013)	NSF Career Award	US National Science Foundation
Prof. Deepak Pathak (BT/CSE/2014)	2026 Young Investigator Award	Office of Naval Research, USA
Mr. Ankur Garg (MT/CSE/2015)	Vigyan Yuva Shanti Swarup Bhatnagar Award 2025	Government of India
Dr. Bahadur Singh (PhD/PHY/2015)	Dr. APJ Abdul Kalam HPC & AI Award, 2026	Hewlett Packard Enterprise (HPE) Indian in association with Kalam Foundation
Prof. Varun Harbola (BS/PHY/2015)	Oxide Electronics Prize for Excellence in Research (iWOE Prize)	International Workshop on Oxide Electronics (iWOE)

Notable Professional Achievements of our Alumni (June 2025–May 2026)

Name	Position
Prof. Rajesh K. Gupta (BT/EE/1984)	Named Founding Dean of the School of Computing, Information and Data Sciences (SCIDS) at UC San Diego
Prof. Ajit Kumar Chaturvedi (BT/MT/PhD/EE/1986/1988/1995)	Appointed the Vice-Chancellor of Banaras Hindu University (BHU)
Mr. Manoj Kumar Agarwal (BT/ME/1987)	Chief Secretary of West Bengal
Prof. Abhay Karandikar (MT/PhD/EE/1988/1995)	Full-Time member of NITI Aayog
Mr. Sunil Bajpai (BT/CE/1988)	Principal Chief Commissioner of Income Tax, Tamil Nadu & Puducherry
Dr. Neeraj Mittal (BT/EE/1989)	Secretary, Ministry of Petroleum and Natural Gas, Government of India
Mr. Chanchal Kumar (BT/MT/CSE/1990/1993)	Secretary in the Ministry of Information and Broadcasting
Mr. Amit Agrawal (BT/EE/1991)	Secretary, Department of Telecommunications (DoT), Government of India
Mr. Abhishek Singh (BT/ME/1992)	Director General of the National Testing Agency
Prof. Ashish Goel (BT/CSE/1994)	New Chair of Management Science & Engineering at Stanford University

Mr. Ashwini Kumar (BT/CHE/1996)	Director on the Board of Gujarat State Fertilizers & Chemicals Ltd.
Ms. Bhawna Garg (BT/CHE/1998)	Principal Secretary, Jails, Government of Punjab
Mr. Animesh Srivastava (BT/EE/2001)	Chief Technology Officer (CTO) at Moglix
Mr. Amit Kumar (BT/ME/2001)	Managing Director and Chief Business Officer at Moglix
Mr. Abhinav Rastogi (BT/CE/2007)	Global Marketing Director at YouTube Shopping
Mr. Sarfaraz Ahmad (BT/AE/2007)	Managing Director of Hyderabad Metro Rail Ltd. (HMRL)
Mr. Vivek Yadav (MT/CSE/2019)	Director (IT & Cyber Security) at the Ministry of Defence, Government of India.
Mr. Tanmaya Shekhar (MSC/ECO/2011)	Released his Hindi film Nukkad Naatak
Mr. Shubham Singh (BT/EE/2015)	Selected in UPSC 2025
Mr. Rahul Shekhar (BT/ME/2019)	Selected in UPSC 2025
Mr. Shubham Saurabh (BT/MT/EE/2019)	Selected in UPSC 2025
Mr. Utkarsh Mishra (BT/ME/2019)	Selected in UPSC 2025
Ms. Samiksha Dwivedi (MBA/IME/2020)	Selected in UPSC 2025
Mr. Bhoopendra Singh Dhakad (BT/CE/2021)	Selected in UPSC 2025
Mr. Narendra Mathuriya (BT/EE/2021)	Selected in UPSC 2025
Mr. Mohit Gupta (BT/EE/2022)	Selected in UPSC 2025

Ms. Darshana Singh Baghel (BT/CE/2023)	Selected in UPSC 2025
Mr. Pakshal Secretry (BS/ECO/2023)	Selected in UPSC 2025
Mr. Akash Trivedi (BT/CSE/2024)	Selected in UPSC 2025
Mr. Varun Tokas (BT/CSE/2025)	Selected in UPSC 2025
Mr. Yogendra Singh (MT/2019)	Selected in UPSC 2025

Notable Entrepreneurial Endeavours by IIT Kanpur Alumni in FY 2025–26

Name of Startup	Name of Alumni	Description of Startup
Healthquant Innovations Pvt. Ltd.	Mr. Ghulam Farooqui (BS-MS/CHM/2025) Mr. Vrahant Nagori (BT/CHE/Ongoing)	HealthQuant Innovations is a medtech startup focused on developing non-invasive, wearable diagnostic solutions for continuous health monitoring.
Dream Ahead Tech Pvt. Ltd.	Mr. Ashish Srivastava (BT/CE/1996)	Dream Ahead is focused on creating a deep data system in the career, education and jobs space. The data system will be used along with machine learning algorithms to provide valuable career counselling insights.
Ekvayu Tech Pvt. Ltd.	Mr. Pravin Kumar (MSC-5 / MTH / 1990)	EkVayu Tech is a startup focused on Defense innovation, Make in India, state of art solutions in cybersecurity/AI/ML/Digital/Embedded System etc.
Menteve Health Pvt. Ltd.	Mr. Harsh Arora (PHD/BSBE/2025)	Menteve is a pioneering Neurotechnology Startup committed to transforming the understanding of the brain and advancing medical care through

		neuroscience and technology.
Solvinn Medtech Pvt. Ltd.	Mr. Mohit Pandey (BT/PHD/CHE/DES/2017/Ongoing)	Solvinn Medtech is a cutting-edge medical technology company founded by a multidisciplinary team of clinicians and engineers from premier institutions, including IIT Kanpur and leading medical colleges. The startup specialises in developing innovative, portable medical devices that address critical gaps in post-surgical care and chronic condition management.
Glimpsetech Pvt. Ltd.	Ms. Saumya Kumari (BT/CHE/Ongoing) Mr. Abhishek Bhadraraj (BT/EE/Ongoing)	Glimpse Tech is a forward-thinking technology company dedicated to building immersive and inclusive digital experiences through cutting-edge AR/VR solutions. With a strong foundation in user experience design and rapid prototyping, Glimpse Tech is committed to solving real-world problems using extended reality (XR), artificial intelligence, and intuitive design.

Brahmion Spacetechn Pvt. Ltd.	Mr. Mayank Bhardwaj (PHD/CHE/Ongoing) Mr. Ayush Sahu (MT/AE/Ongoing)	Brahmion SpaceTech is pioneering sustainable space travel by developing green propulsion systems and exploring innovative aerospace technologies. The company is focused on providing cleaner and safer alternatives to traditional rocket propellants like hydrazine, which is toxic and harmful to the environment.
Scinomat Solutions Pvt. Ltd.	Mr. Sunil Pankaj (BT/EE/2004) Mr. Prem Prakash (BT-MT/MME/2004/2006)	Scinomat Solutions is an OEM Manufacturer of an equipment i.e. High Energy Planetary Ball Mill with a Brand Name: Synthano. The indigenous and proprietary high-energy planetary ball mill is designed to process a wide range of materials, including metals, metal alloys, biomaterials, ceramics, composite materials, and geological samples.
Hybionics Pvt. Ltd.	Dr. Abhishek Sarkar (PHD/ME/2016)	Hybionics is an early-stage startup focused on developing cutting-edge wearable technology solutions for prosthetic and orthotic devices.

Curadev Therapeutics Up Pvt. Ltd.	Mr. Arjun Surya (MSC-5 / PHY / 1987)	Curadev Therapeutics is a dynamic, science-driven biopharmaceutical company at the forefront of drug discovery and development, founded with the vision to address unmet medical needs.
Biosprint Medtech Pvt. Ltd.	Mr. Saksham Gupta (BT-MT / EE / 2021 / Ongoing)	The startup has developed a non-invasive glucose monitoring device - 'GlucoseEase' that delivers accurate and painless blood glucose measurements using near-infrared spectroscopy.
Saarswaraaj Pvt. Ltd.	Dr. Manavaalan Gunasekaran (PHD/EE/2015)	The Company deals in the business of manufacture of industrial equipment related to control systems and robotics.
Semi Modelix Solutions Pvt. Ltd.	Prof. Yogesh Singh Chauhan (MT/EE/2003)	The Company deals in the business of electricals, electronics, semiconductors etc.
Surgvis AR Healthcare Pvt. Ltd.	Mr. Varun Kohli (BT/MME/2005)	SurgVis AR Healthcare is a deep-tech medical device startup developing India's first affordable Augmented Reality-based surgical navigation platform.

Probentix Ai Labs Pvt. Ltd.	Prof. Amarendra E (MT/EE/2012)	Probentix AI EV eliminate charger downtime with enterprise-grade predictive maintenance, enabling operators to maximize uptime, reduce operational cost, and deliver consistent customer experiences at scale.
Veids Ventures Pvt. Ltd.	Mr. Shreyansh Tatiya (PHD/DES/2024)	The startup carries the business of developing, manufacturing, commercializing, investing in products, and solutions including wearable devices, diagnostic tools, smart monitoring systems, critical care equipment, infusion systems, drug delivery devices, hospital-grade medical equipment, etc.
Amvertex Pvt. Ltd.	Mr. Mukesh Maurya (PHD/EE/Ongoing)	AMvertex provides indigenous, scalable, SiC/GaN-based solar inverter technology designed for easy board-level servicing, reduced downtime, and long product life, aligned with the Make in India vision.

Kansat Pvt. Ltd.	Prof. Raghvendra Kumar Chaudhary (PHD/EE/2014) Ms. Shreya Pourush (PHD/EE/Ongoing)	The company has strong technical expertise in RF and microwave technologies, including design, simulation, hardware prototyping, cables, and other RF systems. It focuses on developing efficient microwave devices used in important fields like telecommunications, defence, aerospace, and space research.
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OUTREACH ACTIVITIES

Director's Advisory Council (DAC) - A New Landmark Initiative

The Director's Advisory Council (DAC) met on 20–21 September 2025 at ITC Grand Bharat, Gurugram, under the leadership of the Director, Prof. Manindra Agrawal. The meeting brought together distinguished leaders from academia, industry, government, alumni, and the IIT Kanpur community to deliberate on the Institute's long-term strategic priorities and future growth trajectory. Extensive discussions were conducted across six thematic subgroups covering Governance, Internal Efficiency, Translational Research & Innovation, Academic Advancement & Faculty Excellence, External Relations, and Fundraising & Media.

A key outcome of the meeting was the formulation of the Strategic Roadmap 2026–2030, which outlines a transformative vision for IIT Kanpur as a globally connected hub for translational research, innovation, academic excellence, and sustainable institutional growth. The Council recommended several strategic initiatives including strengthening industry partnerships, promoting interdisciplinary and translational research, enhancing global collaborations, leveraging AI-driven digital governance systems, improving student and faculty support ecosystems, and expanding alumni and philanthropic engagement. The DAC meeting laid a strong foundation for IIT Kanpur’s next phase of growth and reaffirmed the Institute’s commitment to contributing meaningfully to India’s knowledge economy and global higher education landscape.



DAC Meeting

Distinguished Alumni Meet (DAM)

The Distinguished Alumni Meet (DAM) continues to be a significant platform for fostering collaboration, through knowledge exchange and mentorship among IIT Kanpur's alumni and faculty. In FY 2025–



DAM 2025: Distinguished Alumni Meet

26, the DAM was held on 4th October, 2025 in the Bay Area, bringing together 18 distinguished alumni including Mr. Abhay Bhushan, Ms. Anjali Joshi, Mr. Rakesh Sharma, and Dr. B. V. R. Mohan Reddy. Their presence enriched discussions around innovation, leadership, and the evolving role of IIT Kanpur in shaping global excellence in education and research.

The meet further strengthened the institute's global alumni network, inspiring continued engagement and collaboration to support IIT Kanpur's long-term vision.

Faculty Alumni Collaborative Endeavour (FACE)

The inaugural Faculty Alumni Collaborative Endeavour (FACE) 2025 was held on 3rd October, 2025 at the Alumni Centre, Stanford University. The conference aimed to strengthen global faculty–alumni collaboration for IIT Kanpur and promote research partnerships, innovation, and academic networking in three key areas, namely:

- Artificial Intelligence & Cybersecurity
- Innovations in Medical Devices, Diagnostics & Therapeutics (MedTech)
- Sustainability

The event witnessed participation from institute leadership including Prof. Manindra Agrawal, Director; Prof. Braj Bhushan, Deputy Director; Prof. Amey Karkare, Dean of Resources & Alumni (DoRA); and Mr. Kapil Kaul, CEO, IIT Kanpur Development Foundation.



FACE 2025: Alumni Centre Stanford University

The conference was co-chaired by Prof. Ratnesh Kumar (Iowa State University) and Prof. Ashish Goel (Stanford University). Highlight of the event was the keynote address by Mr. Dheeraj Pandey, CEO DevRev. 85+ alumni, faculty, researchers and industry leaders participated in FACE 2025.

Reunions

Reunions continue to be among the most cherished alumni engagement initiatives at IIT Kanpur. During the year 2025-26, the institute hosted 9 reunion gatherings — including the inaugural

PARWA, engaging over 760 alumni across diverse graduating cohorts.



Reunions 2025 | IIT Kanpur Campus | December 2025 – March 2026

The youngest batch to return to campus was the Class of 2015, celebrating their 10th reunion. Milestone celebrations included the Class of 2000 marking their Silver Jubilee (25th reunion), the Class of 1976 commemorating their Golden Jubilee (50th reunion), and the Class of 1966 celebrating their Diamond Jubilee (60th reunion), reflecting the institute's enduring legacy of life-long connections.

These visits also inspired an incredible spirit of giving. During the celebrations, the Class of 2000 announced a landmark pledge of ₹100 crore. This was followed by generous commitments from the Class of 1976 with ₹13.5 crore, the Class of 1990 with ₹13.2 crore, the Class of 1986 with ₹11.3 crore, the Class of 1966 with ₹2.1 crore, and the Class of 2011 with ₹1.08 crore.

PARWA: First-ever Postgraduate Reunion

PARWA - Postgraduate Alumni Reconnecting with Alma Mater - was a landmark new initiative launched in FY 2025–26, designed specifically to reunite and celebrate postgraduate alumni from the first fifty years of IIT Kanpur's history (1965–2015). This three-day reunion brought together 90+ PG alumni in a rich blend of nostalgia, networking, and intellectual engagement.

Held from 5th-6th September 2025 on the IIT Kanpur campus, PARWA featured guided tours, keynote talks, panel discussions, cultural evenings, and gala dinners - offering alumni a deeply meaningful homecoming experience. The event reinforced the institute's commitment of honouring postgraduate contributions and inspiring continued alumni engagement.



PARWA 2025 | IIT Kanpur Campus | Postgraduate Alumni Reconnecting with Alma Mater

IITKarvaan – India Tour 2025

The IITKarvaan India Tour 2025 was successfully conducted in November 2025, spanning two key cities — Hyderabad and

Bengaluru. These vibrant alumni engagements brought together over 400 alumni, fostering meaningful interactions and strengthening the institute's growing global community.

The Hyderabad chapter, held on 22nd November 2025, saw participation from 160 alumni, while the Bengaluru gathering on



IIT Kanpur Caravan at Hyderabad



IIT Kanpur Caravan at Bengaluru

23rd November 2025 witnessed an enthusiastic turnout of 254 alumni. The events served as platforms to reconnect with fellow alumni, celebrate shared experiences, and explore avenues for future collaboration.

IITKarvaan – USA Tour 2025

The IITKarvaan USA Tour 2025 was successfully conducted in October 2025, spanning four major cities — Bay Area, Dallas, Boston, and New York. The tour further strengthened IIT Kanpur's global alumni network, fostering deeper engagement and exploring avenues for collaboration across regions.

The journey commenced in the Bay Area on 4th October 2025, drawing an impressive participation of 276 alumni. This was followed by Dallas on 8th October (77 alumni), Boston on 10th October (89 alumni), and concluded in New York on 12th October 2025 with 124 alumni in attendance.



IITKarvaan USA | Bay Area

Overall, the tour engaged over 560 alumni, serving as a dynamic platform to reconnect with the IIT Kanpur community, celebrate shared achievements, and build meaningful partnerships.



IITKarvaan USA | Dallas



IITKarvaan USA | Boston



IITKarvaan USA | New York

IITKarvaan – Canada

IITKarvaan – Canada 2025 was successfully held on 3rd May 2025 in Toronto at the Kingbridge Centre, bringing together 75 members of the IIT Kanpur alumni community in the region. The gathering fostered meaningful interactions and strengthened connections within the global IIT Kanpur network.

The event provided a platform for alumni to reconnect, share experiences, and engage in discussions around collaboration and the institute's continued growth. It further reinforced IIT Kanpur's commitment to nurturing its international alumni base and building lasting relationships across geographies.



IITKarvaan| Canada (Toronto)

IITKarvaan – Hong Kong 2025

IITKarvaan – Hong Kong 2025 was held on 16th May 2025 at Tagline Restaurant, bringing together 19 members of the IIT Kanpur alumni community in the region. The gathering saw meaningful interactions in an intimate and engaging setting. The event provided a platform for alumni to reconnect, exchange ideas, and strengthen their bond with the institute.

IIT Kanpur Foundation Silver Jubilee Summit

The IIT Kanpur Foundation Silver Jubilee Summit, held on 6th April 2025 at the Computer History Museum in Mountain View, California, marked a significant milestone in the Foundation's journey. Celebrating 25 years of sustained engagement, the event brought together members of the global IIT Kanpur community, reflecting the strength, vision, and collective spirit of its alumni and supporters.

The occasion provided an opportunity to honour Prof. K. A. Padmanabhan, former Director of IIT Kanpur, whose vision and leadership were instrumental in laying the foundation for this journey. It was under his stewardship that the concept of a global, alumni-led foundation first took shape, establishing a strong and enduring connection between the Institute and its worldwide community of changemakers.

The gathering served as a tribute not only to Prof. Padmanabhan's contributions but also to the broader spirit of institution-building that he exemplified.



IITK Foundation Silver Jubilee Summit

IIT Kanpur Samanvay

IIT Kanpur Samanvay 2025 emerged as a dynamic platform bringing together leaders from industry, academia, and government under the theme "Igniting Ideas, Accelerating Innovation". The event fostered meaningful dialogue where cutting-edge research intersected with real-world applications, driving collaborative solutions to pressing challenges.

The occasion was marked by the presence of Honourable Chief Minister of Uttar Pradesh Shri Yogi Adityanath Ji, whose vision for a self-reliant and technologically advanced India inspired participants. The keynote address by Dr. Harrick Vin, CTO Tata Consultancy Services (TCS), further enriched the discourse. A key highlight was the landmark MoU signing between TCS and Airawat Research Foundation, underscoring IIT Kanpur's growing industry partnerships.

150	1100+	20+	3	8
Corpo- rates	Students	Panellists	Focus themes: Ar- tificial Intel- ligence, Sus- tainability, and Cyber- security	Corporate Partners Felicitated

Through keynote sessions, panel discussions, and collaborative engagements, Samanvay 2025 emphasised translating ideas into action — showcasing scalable innovations, fostering MSME–academia partnerships, and reimagining CSR as a catalyst for impactful change. The event reinforced IIT Kanpur's position as a hub of innovation and a catalyst for building a technology-driven, inclusive future.



IITK Samanvay 2025

For more information, readers are requested to visit the DoRA website <https://www.iitk.ac.in/dora/>

Faculty Connect

The Office of Resources and Alumni, organised a Faculty Connect Session on February 18, 2026, aimed at fostering stronger internal engagement, outreach, and collaboration within the Insti-



tute's faculty members. During the session, Prof. Amey Karkare, presented an overview of the Office's role in enabling faculty engagement through structured department–alumni networking, proposal development support, corporate partnerships, and CSR compliance management, while also enhancing the Institute's credibility through the dissemination of impactful success stories.

The session witnessed an enthusiastic response, with participation from over 120 faculty members, contributing to the event's overall success.

INSTITUTE FACULTY

RECRUITMENT

In the past one year, the Institute has offered 38 faculty positions against a rigorous selection from 1,721 applicants. Out of these, 24 new faculty members have joined the Institute. The department-wise joining for the said duration is tabulated below.

During this period, we have also offered 112 Postdoctoral, 28 Visiting Professor, 09 Adjunct Faculty, and 10 Visiting Professor of Practice positions.

Department/ School	Number of New Faculty
Aerospace Engineering	01
Biological Sciences and Bioengineering	00
Chemical Engineering	01
Chemistry	00
Civil Engineering	00
Cognitive Science	00
Computer Science and Engineering	02
Design	06
Earth Sciences	01

Economic Sciences	01
Electrical Engineering	02
Humanities and Social Sciences	00
Kotak School of Sustainability	03
Department of Management Sciences	00
Materials Science and Engineering	00
Mathematics & Statistics	02
Mechanical Engineering	01
Physics	01
Space, Planetary & Astronomical Sciences & Engineering	02
Sustainable Energy Engineering	00
Wadhvani School of AI & Intelligent Systems	01

CENTER FOR MENTAL HEALTH AND WELLBEING

The Center for Mental Health and Wellbeing (CMHW) at IIT Kanpur continued its commitment towards supporting the mental, academic, and emotional wellbeing of the institute. Following its transition from the Institute Counselling Service (ICS), CMHW expanded its scope to serve not only students but also

to faculty, staff, employees, and registered dependents, fostering a more inclusive and supportive campus environment. The CMHW team consists of 2 Heads (Head-Admin and Head-Clinical), 10 professional counsellors and 4 consultant psychiatrists, along with a strong network of student volunteers. The undergraduate wing includes 5 coordinators, 22 core team members, 225 student guides, and 179 academic mentors, while the post-graduate wing consists of 19 core members, 225 student guides, and 21 orientation team members. Individuals may seek counselling independently or through referrals from peers, faculty members, or the campus Health Centre. In emergencies, CMHW coordinates with external clinicians, and a Psychiatry & De-addiction Clinic is conducted every two weeks at the campus Health Centre.

During the academic year 2025–26, CMHW witnessed a significant increase in engagement with mental health services. CMHW strengthened its support systems through extended working hours from 10:00 AM to 9:00 PM, onboarding of additional professionals, and the introduction of accessible digital platforms such as YourDOST in addition to existing TeleMANAS platform provided by the Government.

The academic year began with a 10-day orientation program for Y25 UG and PG students. More than 1,500 PG and 1,200 UG students joined the campus in July and were welcomed by the Director,



Deans, Head of CMHW, and student members. A separate orientation session was organized for over 2,000 parents of UG students, where institute officials and psychiatrist Dr. Alok Bajpai addressed academics, student life, and mental health support systems.

CMHW organized several awareness and outreach initiatives throughout the year. Activities during World Mental Health Week included T-shirt painting, a campus-wide family photo,



and a decluttering contest to encourage community participation and emotional wellbeing. During Diwali, CMHW organized Hakuna Matata, featuring game nights, diya lighting, and sky lanterns, while sweets were distributed to security staff as a gesture of appreciation. Major initiatives such as World Suicide Prevention Day (Ikigai) and Mental Health Sensitization Training

further encouraged open conversations around mental health and community wellbeing.

Several new initiatives were introduced during the year, including Department-level sensitization programs for faculty and staff conducted by CMHW heads and counsellors to improve awareness regarding student mental health concerns. CMHW counsellors also delivered four lectures in the compulsory first-year course ETH111: Practical Ethics, focusing on emotional wellbeing and stress management. Another new initiative, “Dialogue” was launched to provide students with a safe and open platform to discuss academic, emotional, and personal concerns. Mental health screening during placement and PG orientation have been conducted.

In December 2025, Ms. Arpita Roy from TISS conducted a Trauma-Informed Sensitization Training for students. Regular hall visits by counsellors, structured mentoring, wellness activities, and the Wellness Mandali support group further strengthened the campus support system.

In March 2026, CMHW organized a panel discussion on Women’s Mental Health featuring Dr. Priyanka Singh, Dr. Mamta Vyas, and Prof. Priyanka Bagade. A special Yoga Therapy Session for Mental Wellbeing under the Wellness Mandali initiative was also conducted by Ms. Madhu Nagarajan (IAYT, USA). In April 2026, CMHW organized a panel discussion on “Exam Stress: From Fear to Focus” featuring Prof. H. C. Verma, Prof. Goutam Deo and Ms. Akanksha Awasthy.

Through counselling services, awareness campaigns, academic support, sensitization programs, and preventive mental health initiatives, CMHW continued its efforts toward building a compassionate, resilient, and mentally healthy campus community.

STUDENT ACTIVITIES

PRESIDENT, STUDENTS' GYMKHANA OFFICE

The President's Office of the Students' Gymkhana undertook a diverse range of initiatives in the academic year 2025–26, focusing on student welfare, infrastructure, mentorship, industry exposure, community engagement, and the cultural vibrancy of the campus. A few highlights are listed below.

- A Passport Drive was organized to help student's complete passport applications especially benefitting those students planning abroad for higher studies, internships, exchange programs, and placements.
- A Cycle Auction was conducted to promote affordable and sustainable transportation on campus.
- Arranged Bus Services to examination centres for students appearing for competitive examinations such as GATE and CAT

- Enhanced campus dining by opening affordable, accessible hygienic eateries for students on campus. like Burger Singh, Naughty Blenders, Amrit Mattha.
- Farewell Fantasia was organized to provide a memorable celebration for graduating students.
- A Suit Drive at affordable prices was conducted in collaboration with L&N and Maviinci to help students access professional attire for placements, internships, and interviews.
- Published a Yearbook initiative capturing the campus memories and achievements of graduating undergraduate and postgraduate students featuring student profiles, photographs, departmental highlights.
- Scholarship booklets were prepared to spread awareness about financial aid opportunities available to first-year students.
- The Delhivery Campus Express in collaboration with Delhivery, was organized to help graduating students transport their belongings conveniently to their hometowns.
- The successful revision of the Merit-cum-Means (MCM) scholarship income eligibility limit from ₹6 lakhs to ₹8 lakhs annual family income was a major achievement.
- An institutional license for Overleaf was procured to support students and researchers in academic and technical writing.

Vivekananda Samiti

Vivekananda Samiti (VS) conducted diverse and impactful set of activities in 2025-26, aimed at holistic development and social service. A few activities by the Samiti are listed below.

- Regular weekly offline meditation sessions provided members with a consistent space for mental well-being.
- In winter, the Samiti organized a cloth donation drive extending support to underprivileged members of society.
- A week-long celebration of National Youth Day (Swami Vivekananda's Birth Anniversary) featured a mono-act depicting Swami Vivekananda's life, a classical music concert, and inspiring talks by eminent speakers.
- Throughout the year, VS hosted a total of seven talks, delivered by distinguished personalities including revered Swamiji's, eminent professors and IAS officers, covering themes such as leadership, public service, ethical decision-making, spirituality, character building, and the practical application of Vedantic ideas in everyday living.

Public Policy & Opinion Cell

The Cell successfully conducted 8th edition of Policy Conclave with six major competitions namely Policy Hackathon, Brahmastra Inter IIT Case study competition, ecocraft, model united nations, rajneeti and videshneeti. Overall, there were more than 1500 registrations with a footfall of more than 50 teams for the final offline round.

Gender Cell

The Gender Cell organized a range of awareness and sensitization initiatives throughout the year. Cultural events including movie screenings, the poetry competition Goonj, Paint the Tote Bag, Open Mic, and a reel contest on positive masculinity - provided creative platforms for dialogue. Digital campaigns were run for Pride Month, Women's Day, and women's empowerment, complemented by a blog series Towards a Safer Space and a weekly Myth & Fact series.

Community Welfare Cell

The Community Welfare Cell organized various activities for the welfare of IIT Kanpur community. Such as menstrual hygiene awareness drive, Raksha Bandhan celebration with security guards, donation drive for an orphanage and Basant Panchami celebration with Prayas Students.

Unmukt

Unmukt, IIT Kanpur's gender and sexual diversity forum conducted the second edition of IRIS- IIT Kanpur's Pride Fest - in June, which included inviting a guest speaker, organizing a nationwide diversity quiz in collaboration with QuizClub IIT Kanpur, and putting out calls for art submissions along with a face painting campaign. In September, the club organized its flagship event, Hues and Harmonies, featuring stations for face painting and nail painting, along with a pop quiz with prizes. Throughout the year, multiple open discussions were held, and

an anonymous Discord server was created to build a safer and more interactive community space.

Raktarpan

Raktarpan organized 3 blood donation camps apart from time to time attending blood requests of the campus community. The drives were held on national holidays, Independence Day, Republic Day and Gandhi Jayanti.

Outreach Cell

The cell works to strengthen alumni–student connections and expand IIT Kanpur’s outreach beyond campus. It organized events such as Almakonnnect, Legacy Hunt, the Alumni Buddy Program, and Mock-en-Joy to facilitate meaningful interactions between alumni and students. Additionally, it helps the DoRA Office, IITKDF, and the Alumni Association in conducting events like Abhinandan, Startup Master Class, Samanvay, Foundation Day, and reunions.

UG ACADEMICS & CAREER COUNCIL

Throughout the year the Council helped students in placements, academics and research via its multiple activities.

- Career Prep was an internship preparation series, with profile-specific placement sessions, including interview insights, puzzles, resume making sessions and mock interviews.

- Career Connect 2026 was a three-day career fest with sessions on finance insights, soft skills development, consulting etc.
- The council launched JoSAA helpdesk for upcoming Y25 Batch in June'25. Two academic orientation sessions and multiple department specific “Deep dive sessions” for Y25s and an interactive session on SURGE were conducted by the Council.
- Sessions on semester exchange, foreign exposure programme projects and higher studies abroad to guide students regarding international opportunities were also conducted.
- Y25 students were introduced to leading labs in collaboration with Counselling Service.
- A mentorship program for UPSC aspiring students was conducted in collaboration with VisionIAS.

PG ACADEMICS & CAREER COUNCIL

The Council works towards guiding the PG students not just in academics and research but also towards various career and higher studies options. A few of the activities of the Council are listed below.

- Academic Orientation for Y25 PG Students
- Institute Research Symposium (IRS) 2025 featured the presence and keynote talks of various dignitaries, 3 panel discussions, 200+ oral & poster presentations across 10

different research domains, Research Hackathon across 5 themes, Metallography Contest, Research Reel Challenge, Research Memology and Debate challenges.

- Sessions on the prestigious International Fellowships like Alexander Von Humboldt, Sakura (Indo-Japan), Swiss Govt. Excellence, Raman-Charpak, Fulbright-Nehru, Marie Curie (MSCA) Post-doc Series
- Internship Abroad Session covering programs like KU-STAR Japan, NTU Singapore, Ecole Polytechnique, NTNU Norway (Erasmus+, UTFORSK), IRIS, etc.
- Session on Global Mobility: Visa, Work Opportunities & PR Pathways
- 25+ speakers from varied domains like Aerospace & Defense (Tata Advanced Systems, GE Aerospace), Semiconductors (Micron, Intel, Applied Materials, Qualcomm), Energy (Reliance, Schlumberger, Tata Steels, Aditya Birla), Software/IT/Data Science (KPIT, SAP Labs, Citibank, ICICI Lombard), etc. gave expert talks in the placement prep series.
- Sessions focused on Resume Making, Aptitude Preparation & Interview Insights.
- "How to Improve Research Skills", a talk by Prof. N. Sundararajan, Retd. NTU Singapore
- A 2-day General Aptitude Session by the professionals from FLM Edutech on topics such as Logical & Analytical Reasoning, Data Interpretation, Quantitative Aptitude, etc.

- Process Safety, ESG & Risk Management session by the professionals from GRIP Global
- Research Room Talk Series were insightful sessions on emerging and impactful research pathways, including Explainable AI in healthcare and law, the UG to PhD research landscape, careers in economics across data and policy, and applied economics.
- Research Opportunity Sessions by Dr. Ambika Anupama Anilkumar, Former Deputy Attache at Embassy of France, India, covered conventional & Unconventional Avenues (PMRF, INSPIRE, DAAD, Fulbright, MEXT; editorial journals, embassies, Science Communication).

SCIENCE AND TECHNOLOGY COUNCIL (SNT)

The SnT Council maintains a very busy schedule throughout the year and works very hard towards engaging, motivating and guiding students by conducting various workshops, events, camps and competitions. A few of the various activities conducted by the Council in 2025-26 are listed below.

- SnT Summer Camp 2025 engaged over 600 students across 50+ hybrid-mode technical projects conducted under 12 council entities. The program provided participants with extensive hands-on exposure to diverse domains of science and technology. Awards were presented in multiple

categories, including, Best Project, Best Research, Best Documentation and Best Implementation.

- SnT Pavilion served as an introductory platform for the Y25 batch, showcasing the activities and technical culture of various council entities through live demonstrations, Interactive project exhibits and hands-on technical interactions
- TAKNEEK 2025 was conducted as an offline technical competition featuring multi-day challenges and problem-solving events. The competition emphasized innovation, teamwork, and practical technical skills through on-the-spot problem statements, competitive technical challenges, SnT Code and related events.
- Opportunity Open-Source Conference (September 5–7) 2025 featured 50+ technical talks and panel discussions, Industry and community interactions, A post-conference hackathon, Networking sessions and dinner. The conference was supported by leading organizations including: Google, Qualcomm, The Linux Foundation and Canonical.
- Participation in the 14th Inter IIT Tech Meet organized in December 2025 by IIT Patna. IIT Kanpur secured 2nd position overall among 23 participating IITs. Students successfully worked on challenging problem statements proposed by organizations such as Arista Networks, Indian Space Research Organization, Adobe and Pathway.
- Techkriti (March 19–26) 2026 was Asia's largest technical and entrepreneurial festival, featuring technical competitions, workshops and exhibitions, distinguished speaker

sessions, entrepreneurial events and three large-scale pronites. The festival witnessed significant student participation from institutes across the country.

- Astroventure 2026 is the flagship astronomy event organized by the Astronomy Club of the Council focusing on astronomy outreach and observational activities.
- Electrovista 2026 was a three-day workshop and hackathon centered around Internet of Things (IoT), Signal Processing (SP) and Embedded systems.
- Neuroverse was a workshop and hackathon focused on emerging technologies and interdisciplinary innovation.
- The Council actively engaged in outreach programs through collaboration with Abhyudaya Club, Electronics Club and Astronomy Club.
- The Aeromodelling Club organized an Army training workshop focused on aerospace and flight-related technical exposure.

Given below is a list of achievements by various teams under the SnT Council.

- Team Aerial Robotics
 - Emerged as World Champions at the ICUAS 2025
 - Advanced to the elimination round of the ISRO IRoC 2025
 - Qualified for the ICUAS 2026 finals
 - Reached the final round at Robofest 5.0 and secured a cash prize of ₹2,50,000

- Currently competing in the elimination phase of ISRO IRO-C-U 2026
- Team AUV-IIT Kanpur successfully qualified for RoboSub 2026
- Team ERA
 - Developed a three-player autonomous robotic system with a robust localization framework
 - Optimized perception, decision-making, and control algorithms
 - Qualified for RoboCup 2026 in Seoul, becoming the only Indian team to qualify consecutively
 - Secured Gold Medal at Inter IIT Tech Meet 14.0 in the Autonomous Rover – Warehouse Inventory Management problem statement
- Team Humanoid
 - Designed a 10-DOF biped robot
 - Developed complete control and simulation frameworks and Implemented: LQR-based balance control and Trajectory planning algorithms
- Team IIT Kanpur Motorsports (IITKMS)
 - Secured 1st position in the Formula Bharat 2026 Rulebook Quiz
 - Achieved 5th overall position in the EV category at SUPRA SAE 2025, Secured: 1st place in the

Cost Event and 3rd place in the Business Plan Presentation

- IIT Kanpur RaSET
 - Achieved World Rank 2 at the Teknofest Rocketry Competition CDR stage
 - Earned a prize of ₹2 lakhs among top international teams
 - Successfully cleared all ISRO jury pre-flight reviews in the IN-SPaCE Model Rocketry Competition and CanSat Competition

MEDIA & CULTURE COUNCIL

Given below is a list of events organized by the Council.

- Cult Labs (May-Jul'25): Over 1000+ students registered for various workshops in diverse artforms like debating, dance, dramatics, comedic arts, filmmaking etc.
- Cultural Nexus (Aug'25): Featured a Comedy night, DJ night, and a Fresher's showcase of 10+ artforms with 700+ fresher participants, Nexus was a primary stepping stone for onboarding freshers into the cultural community of our campus.
- Alfaaz (Oct'25): This literary fest of IIT Kanpur featured author talks, writing, workshops, jam sessions, book discussions, quizzes, and poetry, with participants both from our campus and across the nation.

- IITKAPD (Oct'25): With over 300+ participants across the nation, IIT Kanpur's Asian Parliamentary Debate became India's largest Open Asian Parliamentary tournament.
- Antaragni (Oct'25): Asia's premier cultural fest with 2000+ participants, 8000+ audiences, featuring performances by renowned artists like Sunidhi Chauhan and Mohd. Irfan.
- Inter IIT Cult Meet 8.0 (Dec'25, IIT Kanpur): IIT Kanpur hosted one of the biggest arenas for cultural and artistic competition. With 23 IITs, 4,500+ participants and 13 cups, Inter IIT Meet established IIT Kanpur as one of the forerunners of cultural and artistic activities. IIT Kanpur's contingent had an impressive performance with 4 gold medals, 6 silver medals and 4 bronze medals, securing an overall First position amongst all IITs.
- Galaxy (Feb'26): 41st annual inter-pool competition with events in debating, dramatics, music, dance, design, and literature.
- Cultural Extravaganza (Apr 2026): With a total audience of nearly 3000+ students across 3 days, Cultural Extravaganza witnessed Campus's first Hip Hop overdose in an effort to promote contemporary artforms alongside the annual flagship attractions like Musical and Dance Extravaganza.



GAMES & SPORTS COUNCIL

Besides various sporting events listed below, the Council organized a Shooting workshop (Oct 18th-19th, 2025), focused on improving the reach of the sport and a Zumba workshop to learn a stress-free way of breaking a sweat.

- IIT Kanpur CRAZY house Chess Championship (June 20th-21st, 2025): A fun-filled twisted chess championship for the campus junta.
- Freshers' Inferno (Aug 29th- September 7th): A week-long inter-pool tournament held exclusively for freshers.
- Inferno (28th March to 5th April): An Intra Institute sports competition, featured 22 sports events for men and 13 events for women.
- Racquetball (Aug 8th-16th): Competition across all racquet sports for the campus community
- Freshers' Chess League: An auction-based chess championship only for freshers.

- Games Carnival (September 23rd-25th): A fun, de-stressing event for the community, held right after the mid-semester exams, featured E-sports, Board games, wall climbing, and much more.
- Ultimate mania'25: A frisbee tournament, powered by paddle pros, exclusively held for hall 13.
- Institute Football League (Oct 25th-26th): Huge participation was seen and was also a scouting platform for the football team.
- Speed Chess Championship (Dec 27th-28th): A speed chess tournament held online for the campus junta.
- Fifa Strikers' Showdown (Jan 24th-25th): A 2v2 fifa tournament hosted by the esports club.
- Institute Volleyball League (Apr 14th-15th): An intra-campus volleyball tournament, seeing huge participation from both men and women.
- Winter War (Dec 27th-28th): An online e-sport tournament featuring multiple games.
- Udghosh (October 2025): The sheer volume of participation from colleges across the country made every win feel earned and every match intense.

Tournament achievements

- Inter-IIT Aquatics meet 2026 was held at IIT madras.
- Team IIT Kanpur won bronze medal in Water Polo.
- Inter IIT Sports Meet 2025 was hosted jointly by IIT Hyderabad, IIT Madras and IIT Tirupati. IIT Kanpur was ranked

5th overall with a total of 53.33 points. A few medal highlights are as given below.

- Gold: Hockey (Men)
- Silver: Lawn Tennis (Men), Squash (Women)
- Bronze: Basketball (Men), Table Tennis (Men and Women both), Water polo (Men) and Weightlifting (Men).

ENTREPRENEURSHIP CELL

With an aim to encourage development of an entrepreneurial mindset among the students, water the 'Ideas' in the bud and help them bloom into impactful endeavors, the E-Cell at IIT Kanpur organized many events, some of them are as given below.

- Entreverse (15-17 August) is an exhilarating and thought-provoking event, with a lineup of competitions, insightful workshops and enriching panel discussions.
- E-Summit (23-25 January) is the flagship event, which serves as a platform to showcase entrepreneurial talent through diverse competitions, including business ventures, product design, and social entrepreneurship ideas. The workshops this year included AI for founders, Mastering personal productivity with notion, Startup finance 101. The Startup Expo exhibition brought together visionary startups, investors, and organizations from across India under one roof.
- 8-week long Entrepreneurial Boot Camp included quizzes, milestone submissions and final pitch evaluation.

STUDENTS' PLACEMENT OFFICE

CAMPUS RECRUITMENT DRIVE 2025-26

The campus recruitment drive for the academic year 2025-26 was conducted in two phases. Phase I officially commenced on 1st December 2025 and concluded on 15th December 2025, following preparatory activities that began in July 2025. Phase II started in mid-January 2026 and is currently ongoing.

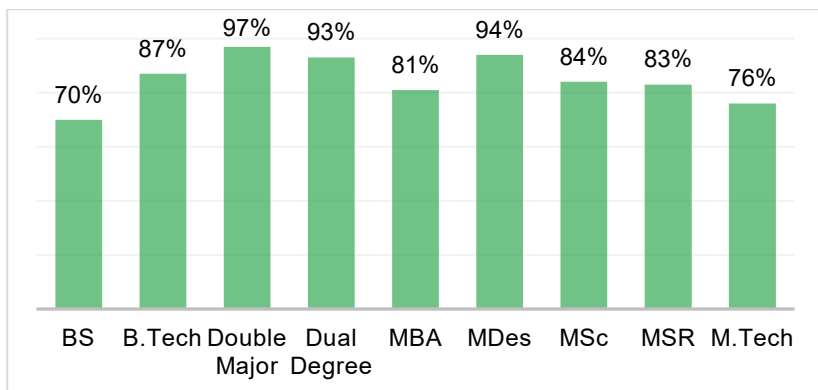
The “One Student, One Job” (single-offer acceptance) policy was continued this year to ensure equitable opportunities for all students registered with the Students' Placement Office (SPO). As of 23 June 2026, more than 400 companies have registered in the campus placement process across both phases.

Out of 1,562 registered students, 1,295 students have been successfully placed through the SPO, including 254 Pre-Placement Offers (PPOs) across undergraduate and postgraduate programs. Students from IIT Kanpur received 32 international offers, marking a notable 10% increase over the previous year. The overall placement rate stands at approximately 83%, reflecting the sustained efforts and commitment of the SPO team, comprising student volunteers, faculty coordinators, and staff members.

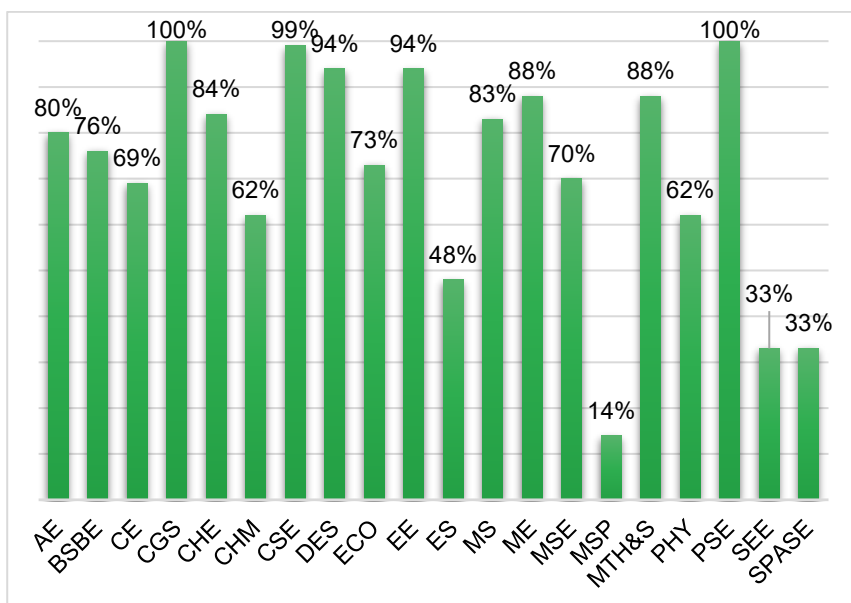
In BTech, BS, Double Major, and Dual Degree programs, 870 out of 1,024 registered students (approximately 85%) secured placements. In MTech, MSR, MSc, MBA, M.Des, and PhD programs, 425 out of 538 registered students (approximately 79%) have been placed as of date during the 2025-26 recruitment cycle.

It is important to note that a significant number of graduating students opt for higher studies, entrepreneurship, or off-campus opportunities. The figures presented above pertain exclusively to students registered with the SPO.

In addition to the placement drive, the SPO also conducted an internship drive, which began in August 2025. This year's internship drive has seen a notable surge with 638 offers, and so far, 598 students have accepted the internship positions.



Placement statistics of various degree programs at IIT Kanpur during placement season 2025-26



Department wise placement statistics of IIT Kanpur for placement season 2025-26

EPILOGUE

Dear Graduating Students,

Congratulations on your graduation!

Congratulations also to your parents, families, teachers, mentors, and friends who have supported you throughout this journey. This achievement is as much theirs as it is yours.

IIT Kanpur, over past sixty-one years, has graduated generations of students. While every generation faces different opportunities and challenges, the values that shape meaningful lives remain timeless.

You graduate at a time of rapid technological change. Yet access to technology and quality education remains unequal. You had the opportunity to learn from dedicated faculty and work with talented peers. Use that opportunity well. Build solutions that are accessible, practical, and relevant. Let your work expand opportunities for others.

The rise of artificial intelligence has fundamentally changed the meaning of expertise. When machines can retrieve information, summarize knowledge, and generate solutions in seconds, the true value of human intelligence lies in asking the right questions, exercising sound judgment, connecting ideas across disciplines, making ethical choices, and understanding the human consequences of technology.

Your degree is not the end of learning. Keep learning, adapt to change, and build new skills throughout your career. At the same time, hold firmly to integrity, honesty, resilience, humility, and respect. These values will shape your decisions long after technical knowledge has changed.

Today, you will also join the alumni diaspora, comprising generations of engineers, entrepreneurs, researchers, and global leaders shaped by IIT Kanpur, who have carried its reputation across the world. I hope you will not only uphold this legacy but also enrich it through your own achievements and your service to society.

Congratulations once again, and my best wishes for the journey ahead.

Jai Hind!

- Manindra Agrawal

BOOKS PUBLISHED

- Engineered Nanomaterials in Food and Drugs: From Laboratory to Market, Misra S. K. (BSBE); Wangoo N.; Khare S., Jenny Stanford Publishing, 2025, New Delhi, 978-981512952-6
- Digital Human Finance: Exploring Embeddedness, Inclusion and Social Realities, Brolos A.; Taylor E.B.; Sam J. S. (HSS); Venkatraman S., Edward Elgar Publishing, 2026, Cheltenham, UK, 978 -1 03534 492 -5
- Data Science for Modeling Managerial and Socioeconomic Problems, Faiz Hamid (DoMS), Springer, 2026, Singapore, 978-981-97-9060-9
- Polymer Electrolyte Membranes for Fuel Cell Devices: Materials, Challenges, and Future Prospects, Kar K. K. (ME); Banerjee S.; Mordina B., CRC Press, 2026, New Delhi, 978-103285483-0
- The Changing Profile of India's Trade Relations: A Partial and General Equilibrium Analysis, Mathur S. K. (ECO); De P.; Srivastava A., Taylor and Francis, 2025, 978-104039871-5
- Another Hyderabad in Deccan: Material Culture and Artistic Practice in South Asia, Ghosh B.; Sengupta R. (ECO), Bloomsbury Publishing Plc., 2025, 978-936131145-1
- Psychology in India: Stories of Eminence, Bhushan B. (HSS), Taylor and Francis, 2025, 978-104036672-1

- Gold in India: Commodity, Culture and Economic Circuits, Chakrabarti A. (HSS); Harriss-White B., Cambridge University Press, 2025, 978-100952171-0

AWARDS AND HONORS

- Prof. Amit Kumar Agarwal (PHY) has been awarded the Rashtriya Vigyan Puraskar: Vigyan Yuva – Shanti Swarup Bhatnagar Prize
- Prof. Bushra Ateeq (BSBE), Prof. Animangsu Ghatak (CHE), Prof. Sankar Prasad Rath (CHM), Prof. Jitendra Bera (CHM), and Prof. Avinash K. Agarwal (ME) have been awarded for the J. C. Bose Grant (2025) by Anusandhan National Research Foundation
- Prof. Kaustubh Kulkarni (MSE) received the Editor's Choice Award 2024 from Metallurgical and Materials Transactions A
- Prof. Sankar Prasad Rath (CHM) is awarded the Chemical Research Society of India (CRSI) Silver Medal for the year 2026
- Prof. Sabuj K. Kundu (CHM) has been awarded the CRSI Bronze Medal
- Prof. Kaustubh Kulkarni (MSE) won a nomination for the Henry Marion Howe Medal 2025 by ASM International
- Prof. Sandeep Verma (CHM) was awarded the Chirantan Rasayan Sanstha (CRS) Gold Medal

- Prof. Santosh Misra (BSBE) has been selected for the Society for Materials Chemistry (SMC) Bronze Medal 2025
- Prof. Ritika Gautam (CHM) Singh was awarded the Merck Young Scientist Award 2025 – Season 4 (Runner-Up) in the Scientific Excellence category under Chemical Sciences
- Prof. Sanjay Mittal (AE) received the Computational Mechanics Award from the Asia Pacific Association for Computational Mechanics (APACM)
- Prof. Bushra Ateeq (BSBE) has been conferred with the 35th G. D. Birla Award for Scientific Research (2025)
- Prof. Dharendra Katti (BSBE) has received the CSIR-IICT Distinguished Alumnus Award
- Prof. Dootika Vats (MTH&S) was selected for the Committee of Presidents of Statistical Societies (COPSS) Emerging Leaders Award 2026
- Prof. Bushra Ateeq (BSBE) and Prof. Arun Shukla (BSBE) have received the Om Prakash Bhasin Award in Biotechnology
- Prof. Arun Shukla (BSBE) was selected for the 2027 International Award of The Biochemical Society, UK
- Prof. Kamal K. Kar (ME), Prof. Avinash K. Agarwal (ME), Prof. Krishanu Biswas (MSE), and Prof. T. Mukhopadhyay (AE) have received the Springer Nature Leadership and Book award from Springer Nature, India
- Prof. Ushasi Roy (ME) was felicitated by Springer Nature India, in the "DEI Initiative - Her research our future" category

- Prof. Prakash Chandra Mondal (CHM) has been offered a Visiting Professorship at the National Research Nuclear University, MEPhI, Moscow, Russia
- Prof. Sandeep Verma (CHM) has been invited as a Distinguished Professor (Visiting) in the Department of Chemistry, School of Natural Sciences at the Shiv Nadar Institution of Eminence
- Prof. Sandeep Verma (CHM) was conferred with an honorary doctorate from the Goethe University, Frankfurt
- Prof. Mainak Chaudhuri (CSE) has been selected for the Pankaj Jalote Best Teacher Award by the CSE graduating batch 2026
- Prof. Naveen Tiwari (CHE) received the Institute's Distinguished Teacher's Award for the year 2025
- Prof. Neeraj Misra (MTH&S) received the Institute's 1989 Batch Faculty Award

FELLOWS/ASSOCIATE OF ACADEMY

- Prof. Manindra Agrawal (CSE) has been elected a Fellow of The Royal Society (FRS), UK
- Prof. Arun Shukla (BSBE) has been elected a Fellow of The World Academy of Sciences (TWAS)
- Prof. Ashok Kumar (BSBE) has been elected as an External Member of The Finnish Academy of Science and Letters

- Prof. Nihar Ranjan Patra (CE) has been elected a Fellow of the American Society of Civil Engineers (ASCE)
- Prof. Ashoke De (AE) has been elected a Fellow of the Indian National Academy of Engineering (INAE)
- Prof. Sayak Ray Chowdhury (CSE) has been selected as an INAE Young Associate for the year 2025
- Prof. Jayant K. Singh (CHE) and Prof. Rajiv Sinha (CE) have been elected Fellows of the Indian National Science Academy (INSA)
- Prof. Basker Sunderaraju (CHM) has been selected as an INSA Associate Fellow
- Prof. H. C. Verma (former faculty PHY) has been elected Fellow of the National Academy of Sciences, India (NASI) in 'Science and Society' category
- Prof. Pratik Sen (CHE) and Prof. Amit Agarwal (PHY) have been selected as Fellows of NASI
- Prof. Saikat Chakrabarti (EE) has been elevated to IEEE Fellow
- Prof. Amit Agarwal (PHY) and Prof. Yogesh Singh Chauhan (EE) have been elected Fellows of the Indian Academy of Sciences
- Prof. Shubham Sahay (EE), Prof. Virkeshwar Kumar (ME), Prof. Koushik Pal (PHY), Prof. Nagma Parveen (CHM) are selected Associate of the Indian Academy of Sciences
- Prof. Sanjay Mittal (AE) has been selected a Fellow of the Indian Association for Computational Mechanics (IndACM)

- Prof. Ashok Kumar (BSBE) has been elected a Fellow of the Indian Academy of Biomedical Sciences (IABS) for the year 2025
- Prof. Ashoke De (AE) has been elected a Fellow of The Institution of Engineers (India) in the Aerospace Engineering Division

APPOINTMENTS

- Prof. Ajit Kumar Chaturvedi (EE) has been appointed the Vice-Chancellor of Banaras Hindu University (BHU)
- Prof. Sandeep K. Shukla (then faculty CSE) has been appointed the Director of International Institute of Information Technology (IIIT), Hyderabad
- Prof. Sanjay Mittal (AE) was elected Vice-President (Publications) of the Indian National Academy of Engineering (INAE)
- Prof. Bishakh Bhattacharya (ME) has joined the Apex Committee of DRDO Young Scientists Laboratory for Smart Materials (DYSL-SM)

EDITORSHIP

- Prof. Prakash Chandra Mondal (CHM) has been selected to the Advisory Board of the Journal of Materials Chemistry C, published by the Royal Society of Chemistry

- Prof. Bishakh Bhattacharya (ME) has joined the Editorial Board of Journal of Climbing and Walking Robots, a peer-reviewed international journal
- Prof. Nisanth Nair (CHM) has joined Editorial Advisory Board of The Journal of Physical Chemistry Letters for a three-year term beginning January 2026
- Prof. Jayant K. Singh (CHE) has joined as an Associate Editor of the Journal of Chemical & Engineering Data
- Prof. Umesh Madanan (ME) has been invited to join as an Associate Editor of the Journal of Brazilian Society of Mechanical Sciences and Engineering (Springer)
- Prof. Bishakh Bhattacharya (ME) has joined the editorial board of an IOP Science Journal, Smart Materials and Structures
- Prof. Pankaj Wahi (ME) has joined the editorial board of a Taylor and Francis Journal, Mechanics Based Design of Structures and Machines
- Prof. Abinava Tripathi (DoMS) has joined editorial board of American Business Review

FELLOWSHIPS

- Prof. Debabrata Goswami (CHM) is awarded the Fulbright-Nehru Fellowship for the academic year 2025-26
- Prof. Mainak Chaudhuri (CSE), Prof. Urbi Chatterjee (CSE), Prof. Aditya Kiran Jagannatham (EE), and Prof.

Imon Mondal (EE) have been selected for the Qualcomm Innovation Fellowship (QIF) India 2025

- Prof. Nivedita Bhaktha (DoMS) has been awarded the India Science Book Fellowship by the Foundation for Advancing Science and Technology - India

STUDENTS AWARDS

- Mr. Shivam Aggarwal (20106280, PhD/MSE) has been awarded the "Outstanding Poster Award" in a workshop held at ICT Japan in June 2025.
- Ms. Sylvie Rana (21104272, PhD/EE) has received the "WAMS Best Paper Award" at the IEEE Wireless Antenna and Microwave Symposium (WAMS) 2025, held in June at IIITDM Kancheepuram.
- Ms. Shahista Farheen (20203269, PhD/CE) has received the "Best Oral Presentation Award" in the 4th International Conference on New Frontiers in Chemical, Energy, and Environmental Engineering (INCEEE 2025), held at NIT Warangal in June 2025.
- Ms. Geetanjali Singh (21107265, PhD/CHM) has been awarded a Certificate for the Poster with Highest Technology Readiness Level at the N.I.C.E. Rendezvous Conference Summer 2025, held at Nice, France in June.
- Ms. Sivada M. S. (21104411) received Prof. Satish K. Sharma "Best Paper Award" at the IEEE Wireless Antenna

and Microwave Symposium (WAMS) 2025, held in June at IIITDM Kancheepuram.

- Ms. Sri Priyanka Kommula (20203272, PhD/CE) received “Best Paper Award” at 9th World Water Summit & Expo 2025, held during June at NDMC Convention Centre, New Delhi.
- Mr. Arya Das (22101263, PhD/AE) received “Best Paper Award” at the IEEE - Space, Aerospace and Defence Conference, held in July 2025 in Bangalore.
- Team GeoSilvi, comprising PhD scholars Moonis Ali, Aditya, and Apratim Biswas has secured Third Prize in the Forest Stack Open Innovation Challenge 2025. The team is awarded a cash prize of ₹4,00,000 and \$10,000 in AWS credits.
- Mr. Manoj Kumar (21107294, PhD/CHM) has received “Best Poster Award” at the 35th CRSI National Symposium in Chemistry, held at IIT Gandhinagar in July 2025.
- Mr. Sujan Singha (20107313, PhD/CHM) has received “RSC Best Poster Award” in ASI Symposium 004: Genesis and Evolution of Organics in Space, held at GITAM University in association with IIST Thiruvananthapuram in July 2025.
- Mr. Vineet Arora (20114274, PhD/IME) received “Best Paper Award” at the Academy of Management Conference 2025, in Copenhagen, Denmark.

- Ms. Ajusree V. K. (22123262, PhD/ES) has received “Best Poster Award” in Multiscale Analysis at IOKTAK Wetland-scape using Earth Observation Datasets, held at Asiana-Oceana Geosciences Society (AOGS), Singapore in July 2025.
- Ms. Arvapalli Sai Susmitha (18111273, PhD/CSE) was awarded the “Doctoral Consortium Best Project/Methodology” at the Medical Image Understanding and Analysis Conference (MIUA 2025), held at the University of Leeds in July 2025.
- Mr. Tamojit Santra (20118281, PhD/BSBE) has received “Best Flash Talk Presentation Award (2nd)” at National Academy of Medical Sciences, MIDNAMSCON 2025 and CME Workshop, held at IIT Kanpur in August 2025.
- Ms. Urvashi Pandita (22118277, PhD/BSBE) has received “Best Poster Award” at National Academy of Medical Sciences, MIDNAMSCON 2025 and CME Workshop, held at IIT Kanpur in August 2025.
- Ms. Riya Rathore (231070627, PhD/CHM) has been selected for the “Mehta Rice Engineering Scholars Program (MRESP)” for 2025-2026 at Rice University, USA.
- Ms. Geetanjali Negi (19107278, PhD/CHM) has been awarded a “Humboldt Research Fellowship” for Postdocs.
- Ms. Rajwinder Kaur (22107280, PhD/CHM) has received “Best Oral Presentation Award” in the International Conference on Sustainable Development in Chemical Sciences

(ICSDCS-2025), held at Akal University, Punjab in August 2025.

- Ms. Kashmeera P. B. (220509, BTech/AE) has received the “Best Oral Presentation Award” in the 18th Asian Congress of Fluid Mechanics - ACFM2025, held at Seoul, Korea in September 2025.
- Mr. Suvarn Jaiswal (211088, BTech/AE) has received the “Best Oral Presentation Award” in the 18th Asian Congress of Fluid Mechanics - ACFM2025, held at Seoul, Korea in September 2025.
- Mr. Roshan Kumar Singh (22103281, PhD/CE) has received the “Best Poster Award” in the 43rd Annual Conference of the American Association for Aerosol Research (AAAR), held in New York, USA in October 2025.
- Ms. Deeksha Jaiswal (22202261, PhD/CHE) has received the “Best Oral Presentation Award” in the International Conference on Hydrogen Energy and Sustainability 2025, held in October 2025.
- Mr. Vatsalya Gupta (22107288, PhD/CHM) has received the “Best Poster Award” in the International Symposium on Designer Polymer Materials (ISDPM), held at IISER Pune in October 2025.
- Ms. Yashika (22207273, PhD/CHM) has received the “Best Poster Award” in the 9th Asian and Oceanian Spectroscopy Conference (AOSC), held in Goa in September 2025.
- Ms. Deepika Behmani (17109265, PhD/PHY) has received the “AAPPS-DPP Poster Prize 2025” at the 9th Asia Pacific

Conference in Plasma Physics (AAPPS-DPP 2025), held in Fukuoka, Japan in September 2025.

- Ms. Deeksha Jaiswal (22202261, PhD/CHE) has received the “Best Oral Presentation Award” at HES 2025 held at IIT BHU in October 2025.
- Ms. Shahista Farheen (20203269, PhD/CE) has received the “Best Oral Presentation Award” at the 3rd International Symposium on Advances in Algal Research (AAR 2025), held in Kochi in November 2025.
- Ms. Sneha Singh (16102280, PhD/CHE) has received the “Young Researcher Award” along with a prize of €450 at the European Materials Research Society (E-MRS) Fall Conference, held in September 2025 at the Warsaw University of Technology, Poland.
- Mr. Shivam Singh (20103292, PhD/CE) has received the “Best Paper Award” at the ACS ES&T Engineering, held in November 2025.
- Ms. Shahista Farheen (20203269, PhD/CE) has received the “Best Oral Presentation Award” at the International Conference on Sustainability, Circularity, Outreach and Policy for Environment (SCOPE 2025), held at IIT Kanpur in November 2025.
- Mr. Ashok Narayan Tripathi (20104269, PhD/EE) has been selected for “First Prize in the PhD Colloquium Award” at IEEE UPCON 2025, held at IIT BHU in December 2025.

- Mr. Aditya Sharma (19103290, PhD/CE) has received the “Best Paper Award” in a workshop held at IIT Kanpur in November 2025.
- Mr. Ashma Parween (21103265, PhD/CE) has received the “Best Oral Presentation Award” in a workshop held at IIT Kanpur in November 2025.
- Mr. Mohd. Mazhar Sadiq (18102268, PhD/CHE) was awarded the “2nd-best poster award” at the International Conference on Advanced and Sustainable Materials (ICASM) 2025, held at Qatar University, Qatar in December 2025.
- Mr. Abhinav Sharma (22119261, PhD/DES) has received the “Best Paper Award” at International Conference on Signal Processing, Computation, Electronics, Power and Telecommunication iConSCEPT 2025, held at NIT Puducherry.
- Ms. Malavika Nair (230622, BTech/AE) has received the “Best Poster Award” at CASML conference, held at IISc, Bengaluru in December 2025.
- Mr. Moonis Ali (20203266, PhD/CE) has been awarded the “Best Paper Award” at the 2025 IEEE India Geoscience and Remote Sensing Symposium (InGARSS 2025), held at IIT Bhubneswar in December 2025.
- Mr. Arbaz N. Pathan (22123264, PhD/ES) has been awarded the “Best Oral Presentation Award” at the 5th workshop on Luminescence Dating and Applications, held

at Wadia Institute of Himalayan Geology, Dehradun during December 2025.

- Mr. Jalaj Kumar (20104283, PhD/EE) has received the “GRID-INDIA Power System Award (GIPSA) 2025-26”.
- Mr. Shreeyash Nitin Malode (20214271, PhD/DoMS) has been selected as “IPCC/ICTP/IAP Chapter Scientist” for the Intergovernmental Panel on Climate Change (IPCC).
- Mr. Yasir Ahmad Bhat (22204270, PhD/EE) has received the “Best Oral Presentation Award” at ICEE 2025, in December.
- Mr. Pratik Samal (21214265, PhD/DoMS) has been awarded the “Best Paper Award” at the POMS India International Conference, held in December 2025 at IIM Sambalpur.
- Mr. Ashish Kumar Gupta (231040606, PhD/EE) has received the “Best Paper Award” at IEEE 4th International Conference on Smart Technologies for Power, Energy and Control (STPEC 2025), held at NIT Goa in December 2025.
- Ms. Farha Naaz (19107276, PhD/CHM) has received “Best Oral Presentation Award” in the Institute Research Symposium (IRS 2025), held at IIT Kanpur in November 2025.
- Ms. Parkhi Sharma (20107288, PhD/CHM) has received “Best Poster Presentation Award” in Modern Trends in Inorganic Chemistry (MTIC-XXII), held at University of Delhi in December 2025.
- Mr. Thangavel Sudeep (241050086, MTech/ME) has won the "Best Presentation Award" at the Ninth International

Conference on Theoretical, Applied, Computational, and Experimental Mechanics (ICTACEM-2025), held in December 2025 at IIT Kharagpur.

- Mr. Debojit Chanda (20109267, PhD/PHY) was awarded the “Second-best-poster” at the International Conference: Interdisciplinary Applications of Magnetic and Optical Tweezers (MTOT2025), held in January 2026.
- Mr. Aman Agrahari (241050086, PhD/PHY) has been selected for the India-Japan science research exchange LOTUS Programme 2026-2027.
- Mr. Aman Khosla (241090626, PhD/PHY) secured third position in the Telecom 5G/6G CoE Hackathon (FY 2025–26) program supported by StartInUP, Government of Uttar Pradesh. He has won a grant of ₹3,00,000 for a project duration of up to 12 months.
- Mr. Mayank Anupam (21104279, PhD/EE) has been awarded 1st place in the analog tapeout contest of VLSID 2026, held in Pune in January 2026. The VLSI Society of India also awarded him a cash prize of ₹50,000 for this achievement.
- Mr. Kapil Kumar (21104279, PhD/EE), has received “Best Poster Award” at 20th International Conference on Vibration Engineering & Technology of Machinery, held in December 2025.
- Mr. Parikshit Munda (12206064, PhD/MSE) has received "Best Technical Presentation Award" at the International Conference on Next Generation Galvanized and Color

Coated Steels (GALVANEXT-2026), held in Jamshedpur during January 2026.

- Mr. Bharat S. Chahar (19206264, PhD/MSE) has received "Best Technical Presentation Award" at the International Conference on Next Generation Galvanized and Color Coated Steels (GALVANEXT-2026), held in Jamshedpur during January 2026.
- Mr. Aditya Aanand (241010004, MTech/AE) has received "Third Prize for Poster Presentation" at International Symposium on AI-driven CFD, held IIT Gandhinagar in December 2025.
- Mr. Girraj Raigar (22204271, PhD/EE) has received "Best Paper Award" at ICPS 2025 Conference, held at IIT Hyderabad in collaboration with Grid India in December 2025.
- Ms. Areeba Ahsan (17104264, PhD/EE) has received "Best Student Paper Award" in a workshop, held at Jakarta, Indonesia in hybrid mode during January 2026.
- Ms. Anushka Tyagi (241000604, PhD/HSS) has won the "Best Paper Award" at the Graduate Research Meet, held at IIT Guwahati in January 2026.
- Mr. J. Manojkumar (22107274, PhD/CHM) has received "Best Poster Award" in the International Conference on Metal-Organic Frameworks and Porous Organic Polymers for Energy and Sustainability (MOFES-26), held at JNCASR, Bengaluru in January 2026.
- Ms. Anamika Yadav (242070604, PhD/CHM) has received "Best Poster Award" in the International Conference on

Green Hydrogen and Energy Technology (ICGHET 2026), held at SRM Institute of Science and Technology, Chennai in January 2026.

- Ms. Abhirami Ajith (21100263, PhD/HSS) has been awarded the “William T. Buice III Scholarship” from the Rare Book School (RBS), University of Virginia. The scholarship, valued at \$1,495, covers full tuition for any approved RBS course over the next two years.
- Ms. Ashma Parween (21103265, PhD/CE) has received “Best Oral Presentation Award” at Technological Advancements in Waste Management: Challenges and Opportunities - 2025 (TAWMCO-2025), held at IIT (ISM) Dhanbad in December 2025.
- Ms. Priya (22111270, PhD/CSE) has received “Sartorius Best Flash Talk Award” at Cancer Genomics, Diagnostics and Therapeutics Conference, held at IIT Kanpur in January 2026.
- Mr. Ritwik Shankar (218070866, BT-MT/AE) has received approval for “IndiaAI Fellowship” for the second time.
- Mr. Promit Ganguly (20118276, PhD/BSBE) has been selected for “SPARC program, 2025” sponsored by the Ministry of Education (MoE), GoI, held at University of Melbourne, Australia.
- Mr. Promit Ganguly (20118276, PhD/BSBE) has been selected for the “Ekalavya Ignite travel grant, 2026” by the Ignite Life Science Foundation, conducted by American Association for Cancer Research in San Diego, USA.

- Mr. Promit Ganguly (20118276, PhD/BSBE) has received “Best Poster Prize” at the ANRF-PAIR Conference, organized by IIT Kanpur in January 2026.
- Ms. Ankita Bhattacharyya (21218262, PhD/BSBE) has received “Best Poster Prize” at the ANRF-PAIR Conference organized by IIT Kanpur in January 2026.
- Mr. Javed Mohd. (19201266, PhD/AE) has received “Best Oral Presentation Award” at International Conference on Flow Visualisation and Imaging Techniques (ICFVIT) 2026, held at IIT Madras in February 2026.
- Mr. Vivek Anand (21103276, PhD/CE) has received “Best Paper Award” at SIAT 2026, organized by the Automotive Research Association of India (ARAI).
- Mr. Aditya Sharma (19103290, PhD/CE) has received “Best Oral Presentation Certificate” in a workshop organized by Indian Membrane Society (IMS) and Gogri Hub for Membrane Research at IIT Bombay in February 2026.
- Ms. Diksha (19104266, PhD/EE) has received “Best Paper Award” at the IEEE EPREC 2026 conference, held in January 2026.
- Ms. Divya Lakshmi (231070609, PhD/CHM) has received “Best Poster Presentation Award” in 36th CRSI Conference, held at University of Dibrugarh in February 2026.
- Ms. Ayesha Nanda (18109263, PhD/PHY) has received “Buti Young Scientist Award-2025” in the 40th National Symposium on Plasma Science and Technology -

PLASMA 2025, organized by Plasma Science Society of India (PSSI) and IIT Tirupati in December 2025.

- Mr. Anil Kumar Panda (22104264, PhD/EE) has secured first position in “Saransh - Thesis Competition” for PhD students-2025 under the "Engineering Sciences" category. He also received prize in National Science Day Celebration 2026, held at Indian National Science Academy (INSA) in New Delhi in February 2026.
- Mr. Krishna Chaitan (19105281, PhD/ME) has received “Best Poster Presentation Award” in SPARC Conclave, held at IIT Kharagpur Research Park in March 2026.
- Mr. Aswin A. Nair (241030022, MTech/CE) has received “Best Oral Presentation Award” in 5th National Environmental Conference (NEC-2026), held at IIT Bombay in March 2026.
- Mr. Vishesh Mishra (22111279, PhD/CSE) has received “Best Poster Presentation Award” in PMRF Annual Symposium, held at IIT Guwahati in March 2026.
- Mr. Kunal Kishore (21106287, PhD/MSE) has received “Best Poster Presentation Award” at 2nd International Conference on Advanced Functional Materials and Devices (AFMD-2026), held in Chennai in March 2026.
- Ms. Aastha Mariam John (241040602, PhD/EE) have been selected for the “IndiaAI Fellowship Program”.
- Ms. Yasmeena Ashraf (21102290, PhD/CHE) has received “Best Poster Presentation Award” at National Symposium

on Advanced Micro-fabrication & Biosensors: Towards Intelligent Diagnostics, held at IIT Jammu in March 2026.

- Ms. Ayusie Goyal (241070607, PhD/CHM) has received “Best Oral Presentation Award” at the International Symposium on Advanced Materials (ISAM 2026), held at IIT Kanpur in March 2026.
- Mr. Rahul Patwal (241070637, PhD/CHM) has received “Best Poster Award” at the International Symposium on Advanced Materials (ISAM 2026), held at IIT Kanpur in March 2026.
- Ms. Abhirami A. (241070637, PhD/HSS) has been awarded a \$500 “Travel Assistance Grant” to participate in the Society for Textual Scholarship (STS) 2026 conference, to be held at The New School, USA in June 2026.
- Mr. Vatsalya Gupta (22107288, PhD/CHM) has received “Best Oral Presentation Award” at the International Symposium on Advanced Materials (ISAM 2026), held at IIT Kanpur in March 2026.
- Ms. Nidhi Singh (15204271, PhD/EE) has been honoured with the “Best Paper Award” at the 22nd IEEE International Colloquium on Signal Processing & Its Applications (CSPA 2026), held in Malaysia in May 2026.
- Ms. Neha Jain (22100273, PhD/HSS) has been awarded the “NAoP Best Paper Award” at the 35th Annual Conference of the National Academy of Psychology (NAoP), held at IIM Shillong in 29 April 2026.

- Ms. Shruti Dubey (17506261, PhD/MSE) has received the “Best Poster Presentation Award” at the Perspectives on the Mechanical Behavior of Materials (PMBM) 2026 conference, held at IIT Bombay in May 2026.
- Mr. Parth Goel (241010042, MTech/AE) has received the “Best Paper Award” at the International Conference on Spacecraft Mission Operations (SMOPS-2026), organised by ISTRAC and ISRO in Bengaluru in April 2026.
- Mr. Dhananjay De (19116261, PhD/PSE) has secured the “first prize in Oral presentation category” in the Nanophotonics, Plasmonics and Photonic Materials track in ISFOPMD 2026, held at IEST Shibpur in June 2026.
- Mr. Kuldeep Chaudhary (251040643, PhD/EE) has received approval for “IndiaAI Fellowship” for the second time.
- Ms. Nivedita Singh (21204266, PhD/EE) has been awarded the “NE-IECCE 2026 Best Paper Award” at the 2026 IEEE North-East India International Energy Conversion Conference and Exhibition (NE-IECCE 2026), held at NIT Meghalaya.
- A team comprising Ms. Priyanka Kommula, Mr. Moonis Ali, and Mr. Vivek Anand, FARE Fellows in the Department of Civil Engineering has been received the Innovation Excellence Award for their solution “SMART-DRAIN (Scalable Modeling and AI-based Rural Terrain Drainage Network Framework)” at IIT Tirupati Navavishkar I-Hub Foundation (IITTNiF).

LIST OF MAJOR PROJECTS SANCTIONED

- Setting up of fabrication and centralized facilities for quantum sensing & metrology under the National Quantum Mission (Department of Science & Technology)
- Grid readiness for EV: Enablers and technological developments (GREET) (Anusandhan National Research Foundation)
- Design, development and fabrication of satellite's momentum exchange devices: Control moment gyros (CMGs) and variable speed control moment gyros (VSCMGs) (Aeronautics R&D Board)
- Upgradation of the National Wind Tunnel Facility (NWTF), IIT Kanpur (Aeronautics R&D Board)
- Grid readiness for EV: Enablers and technological developments (Anusandhan National Research Foundation)
- Repurposing activities in two operating mega mines and three abandoned mines of Coal India Ltd. (Coal India Ltd.)
- 6G research and standardization (Ministry of Electronics and Information Technology)
- IKS Wiki project scheme (Ministry of Education)
- Param Sanganak - II (Centre for Development of Advanced Computing)
- Spatio-temporal forecasting for air-quality monitoring and mitigation using AI (Airawat Research Foundation)

- Active tuneable electromagnetic structures (Defence R&D Organisation)
- Flexible encapsulation for photovoltaic devices operating under harsh environment (Defence R&D Organisation)
- Intelligent spectrum innovation icon (Department of Science & Technology)
- Collaboration agreement for the cyber security capability maturity model (C3iHub)
- Upgradation and modification of supersonic wind tunnel facilities at IIT Kanpur (Aeronautics R&D Board)
- Decoding GPCR polymorphic variants in Indian cohorts: Biased signalling mechanisms and therapeutic potential in metabolic disorder (ICMR)
- Development of national air quality management action plan (NAQMAP) for Nepal (International Centre for Integrated Mountain Development)
- Pilot project on technology demonstration and evaluation of cloud seeding as alternative for Delhi NCR pollution mitigation (Department of Environment)
- Development of indigenous platforms for gene therapy of spinal muscular atrophy (Anusandhan National Research Foundation)
- An experimental and simulation approach to quantify shock attenuation due to pores and layer boundaries of casings (CoE) (Defence R&D Organisation)
- Force-field development for high energy materials (CoE) (Defence R&D Organisation)

- Space robotics platform for validation of spacecraft close proximity operations on ground (Defence R&D Organisation)
- Environmental flow assessment for Kosi Gandak and Mahananda rivers (National Mission for Clean Ganga)
- Therapeutic antimicrobial chemicals and antimicrobial peptides (TACAP) (Department of Science & Technology)
- A new approach for advancing therapeutics in inflammatory bowel disease: Development of bioengineered JAK inhibitor-based local therapy (ICMR)
- High altitude subsystem modelling for experimentation (Aerial Delivery Research and Development Establishment)
- Innovative mechanical process for efficient and sustainable recycling of end-of-life solar panels (Department of Science & Technology)
- UniGrip - A universal robotic gripper using biomimetic tactile sensor (Tata Consultancy Services)
- Empowering research in indigenous development of EV sub-systems (E-RIDES) (Anusandhan National Research Foundation)
- Training of upper primary and composite school science teachers in digital literacy, coding, computational thinking, and artificial intelligence (DLCCAI) (State Council of Educational Research and Training)

- PAIR main project theme 1: Consortium for advanced research and education in cancer diagnostics and therapeutics, theme 2: Synergistic development of semiconductor and digital technologies for automotive sectors (Anusandhan National Research Foundation)
- Design of metamaterial-inspired compact UWB antenna at UHF and UHF bands (Defence R&D Organisation)
- Meeting the challenge of urban PHC systems in India - A learning sites approach (University College London)
- Prototype development project MEITY/SCDT/2023505 (UniGrip - A universal robotic gripper using biomimetic tactile sensor) PDC contribution - NCFlexE phase - II (Tata Consultancy Services)
- Flow control for next-generation aircraft using boundary layer ingestion engines (Anusandhan National Research Foundation)
- Low speed wind tunnel testing for force and moment measurement on a 1:10 scale LCA AF MK2 aircraft model (Aeronautical Development Agency)
- Design and optimization of topological neural networks algorithms for heterogeneous computation to probe rare physics at LHC and future high energy physics experiments (Anusandhan National Research Foundation)
- Automated system for cybersecurity policies, assessments, audits, ranking and IR (Ministry of Electronics and Information Technology)

- Enzymatic degradation of nitrocellulose (NC) and single base propellant (SBP) (Defence R&D Organisation)
- Sectoral research on textile policy, startup policy and food processing policy for Uttar Pradesh (Invest UP)
- Resurrecting the multiple origins of tyrosine kinase activity and phosphotyrosine recognition (Human Frontier Science Program)
- Renewal and upgradation of managed cybersecurity services at NHAI (National Highway Authority of India)
- Mumbai air network for advanced sciences (MANAS) (Brihanmumbai Municipal Corporation)
- Converting indigenous tracker expertise of Kalahari hunter-gatherers into an artificial intelligence software (United States Air Force)
- Development of DCS for use in CBTC solution developed by the HBL (HBL Engineering Ltd.)
- Implementation of blockchain solution for agriculture department (Rajcomp Info Services Ltd.)
- Forecasting models and predictive maintenance in the energy (Airawat Research Foundation)
- Kuppam constituency net-zero project (Kuppam Area Development Authority)
- Preparation of repurposing & sustenance (R&S) plan aligned with RECLAIM framework (Central Mine Planning & Design Institute Ltd.)

- CuO/TiO₂ nanomaterials and resilient soft materials for atmospheric water harvesting (Technology Innovation Institute)

LAB/FACILITIES DEVELOPED

- Resonant Column Test Device (CHIR-AYU Controls, Model: 31-WF8600) (CE)
- Particle Image Velocimetry (PIV/PSV) system (CE)
- PIV system has been procured to support advanced experimental research by visualizing and accurately measuring fluid flow velocities and patterns using particles. laser-illuminated tracer.
- Tilting Flume (CE)
- Fluorescence Spectroscopy (CE)
- Advanced Small Angle X-ray Scattering (SAXS) facility (Post Graduate Research Laboratory (PGRL), CHE)
- Advanced Environmental Scanning Electron Microscopy (E-SEM) facility (PGRL, ChE)
- T3i Lab with 100 high-end workstations powered by 14th Generation Intel Core i9-14900 processors, 64 GB RAM, and 24-inch Full HD monitors (CSE)
- Jeet Bindra Centre of Excellence (CoE) for Specialty Chemicals
- Intelligent Decision and Algorithmic Learning Lab (Prof. Washim Uddin Mondal, EE)

- Bose-Spin lab with room temperature probe station for DC and RF measurements in presence of magnetic field (Prof. Arnab Bose, EE)
- Distributed Control and Decision Laboratory (Prof. Twinkle Tripathy, EE)
- High-pressure high-temperature gas-medium deformation apparatus (Prof. Santanu Misra, ES)
- Triaxial rock deformation apparatus (liquid medium) (Prof. Santanu Misra, ES)
- Particle size analyser for grain size analysis of both dry and wet geological samples (Prof. Santanu Misra, ES)
- An L-shaped assembly (69 assembly) has been designed for use in the triaxial deformation apparatus to perform direct shear experiments (Prof. Santanu Misra, ES)
- The Economic Geology and Experimental Ore Petrology Laboratory (EconX Lab) (Prof. Boddepalli Govindarao, ES)
- Sample preparation and analytical facilities for Hydraulic press for breaking massive rock (Prof. Anupam Banerjee, ES)
- Pulverization facilities (Prof. Anupam Banerjee, ES)
- Planetary ball mill (Prof. Anupam Banerjee, ES)
- Facilities for dissolution of rock powders using concentrated and diluted inorganic acids (Prof. Anupam Banerjee, ES)
- Development of Environment chamber for corrosion analysis which can have control over humidity, temperature, CO₂ and SO₂ levels. (Prof. Kallol Mandol, MSE)

- Development of reactive autoclave, which can operate under strong HCl and H₂SO₄ acid under a pressure of 25-30 bar at a temperature of 200°C (Prof. Kallol Mandal, MSE)
- Temperature-Dependent Hall Effect Measurement System (Prof. Shikhar Misra and Prof. Tanmoy Maiti, MSE)
- Inductively Coupled Plasma Mass Spectrometry (ICP-MS) (Prof. Shobit Omar and Prof. Arunabh Meshram, MSE)
- A comprehensive Virtual Laboratory module covering Sample Preparation/Metallography, Wear and Tribology, Material Characterization, Mechanical Metallurgy, and Virtual Reality (Prof. Niraj Mohan Chawake, Prof. Shobit Omar, Prof. Sudhanshu S. Singh, Prof. Krishanu Biswas, and Prof. Kantesh Balani, MSE)

SOFTWARES DEVELOPED

- TreadWill software (Nitin Gupta, BSBE)
- AL-NEB: An active-learning-based computational framework for efficient transition-state discovery (Prof. Vishal Aggarwal and Prof. Nitin Kaistha, ChE)
- A R-package stochcorr Stochastic Correlation Modelling via Circular Diffusion (Prof. Sourav Majumdar, DoMS)
- Power Sector Regulatory Oversight and Market Performance Tracking (PROMPT) Dashboard Developed for Central Electricity Regulatory Commission (CERC) (Prof. Anoop Singh, DoMS)

- Regulatory Database- Developed under the project funded by FCDO (Prof. Anoop Singh, DoMS)

TECHNOLOGIES DEVELOPED

- Portable Readout Unit for Chemiresistive Sensor (PRUCSOR), Santosh K Misra, BSBE)
- A Biodegradable Silica Based Therapeutic Carrier and Process of Synthesizing the same, Santosh K. Misra, BSBE)
- Hazapure: Biofilm Extracellular Polymeric Substances Based Carbon Nanoparticles and Method of Preparation Thereof (Santosh K Misra, BSBE)
- LiDAVerse (Prof. Bharat Lohani, CE)
- Smart Sprayer (Prof. Bharat Lohani, CE)
- AV/ADAS Simulation Platform (Prof. Bharat Lohani, CE)
- Innovative panel-based staggered and intermittent geofoam-infilled trenches for vibration mitigation (Prof. Priyanka Ghosh, CE)
- Prototype plant for catalytic wet air oxidation, with in situ regeneration provision, for treating organics-laden wastewater effluents (Prof. Nishith Verma, ChE)
- Prototype photobioreactor for CO₂ capture and formate production (Prof. Nishith Verma, ChE)
- An AI-enabled Multispectral Analysis & Photogrammetry Suite (Prof. Ketan Rajawat, EE)
- The Glacier Environment and Climate Laboratory (Prof. Thupstan Angchuk, ES)

- An integrated long-range UAV communication and mission-planning system. (Prof. Ketan Rajawat, EE)
- Metal 3D printed one-piece rocket engine (Prof. Arvind Kumar, ME)
- 3D printed stochastic and deterministic functionally graded porous architected metal structures for mechanical, thermal and biomedical applications (Prof. Arvind Kumar, ME)
- Optical diagnostic techniques for investigating the interaction of in-cylinder turbulent flow and spray of various fuels with different physical properties using a variable swirl test rig (Prof. Avinash Kumar Agarwal, ME)
- Optical diagnostic techniques to study non-evaporative, evaporative and reactive fuel sprays especially for Low Temperature Combustion applications. (Prof. Avinash Kumar Agarwal, ME)
- Development and Visualisation of Turbulent Jet Ignition Technology for ultra lean mixture combustion of low carbon fuels (Prof. Avinash Kumar Agarwal, ME)
- Development and testing of India's first 100% Dimethyl Ether fuelled tractor prototype (Prof. Avinash Kumar Agarwal, ME)
- Working prototype of Methanol-15 and Methanol-85 ready two-wheeler engines and vehicle (Prof. Avinash Kumar Agarwal, ME)
- Prototype development of ECU based 3-cylinder common rail direct injection engine with 100% DME as a fuel for a sootless combustion (Prof. Avinash Kumar Agarwal, ME)

- Development of prechamber based GDI engine for ultra-lean combustion of future fuels with low NO_x and high efficiency (Prof. Avinash Kumar Agarwal, ME)
- Development of hydrogen, high pressure direct injection-based CI engine for agricultural applications with 95% diesel replacement (Prof. Avinash Kumar Agarwal, ME)
- Compressed Air Propelled Cargo Hyperloop Transportation System for CMPDI (Prof. Bishakh Bhattacharya, ME)
- Novel Magneto-Mechanical Metastructure Operable without Physical Contact (Prof. Bishakh Bhattacharya, ME)
- Neuromorphic Mechanical Sensing System for Physical Intelligence (Prof. B. Bhattacharya, ME)
- Additively Manufactured Bouligand-Auxetic Metamaterial for shock absorption (Prof. Bishakh Bhattacharya, ME)
- Smart Metamaterial Based Knee-Orthosis Device (Prof. Bishakh Bhattacharya, ME)
- Shape Memory Alloy-Based Actuator for Detecting Objects Based on Buoyancy-Induced Response (Prof. Bishakh Bhattacharya, ME)
- A method and system to analyze and optimize heliostat field on flat as well as uneven terrain (Prof. Jishnu Bhattacharya, ME)
- Device and method for providing implantable mechanical circulatory support to augment cardiac output (Prof. K. Muralidhar, ME)
- Device and method for providing paracorporeal mechanical circulatory (Prof. K. Muralidhar, ME)

- Support in ventricular dysfunction (Prof. K. Muralidhar, ME)
- A hemophobic and antibacterial surface and a method of fabricating the same thereof (Prof. K. Muralidhar, ME)
- Technique for the growth of $\text{Sb}_2(\text{Se}_{1-x}\text{S}_x)_3$ nanowires (Prof. Sarang Ingole, MSE)
- Industrial Waste Valoric Anodes & Green Corrosion Inhibitors (Prof. Kallol Mondal, MSE)
- Method for Producing Polymer-Ceramic Suspension for 3D Printing (Prof. Shikhar K. Jha and Prof. Kantesh Balani, MSE)

59वाँ दीक्षान्त समारोह
59th CONVOCATION



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