



भारतीय प्रौद्योगिकी संस्थान मुंबई INDIAN INSTITUTE OF TECHNOLOGY BOMBAY



**ANNUAL
REPORT**
2024-25





The Visitor
Smt Droupadi Murmu
President of India

Members of Board of Governors



Dr. Sharad Kumar Saraf,
Chairperson,
(From 12.07.2022)
Technocraft Industries (India)
Ltd., Technocraft Group, Bombay,
Technocraft House, A-25, MIDC,
Marol Industrial Area, Road No. 3,
Opposite ESIC Hospital,
Andheri (East), Mumbai – 400 093



Prof. Shireesh B. Kedare
Director
(From 06.05.2024),
IIT Bombay,
Mumbai – 400076

Council Nominees



Ms. Saumya Gupta
Joint Secretary,
(From 18.08.2023)
Ministry of Education (TE),
118-C, Shastri Bhawan,
New Delhi - 110015

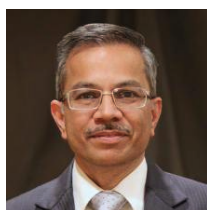


Prof. Aniruddha B. Pandit
U.G.C. Professor,
(From 13.07.2018)
Department of Chemical
Engineering, Institute of
Chemical Technology
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Mumbai - 400019



Prof. Paresh K. Joshi,
(From 05.03.2019)
NIUS Building, Homi Bhabha
Centre for Science Education,
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Mankhurd,
Mumbai - 400088

State Government Nominees



Shri Vikas Rastogi, IAS
(Upto 02.01.2025)
Additional Chief Secretary,
Higher and Technical
Education,
Government of
Maharashtra, Mantralaya,
Mumbai – 400 032.



Mr. B. Venugopal Reddy, IAS
(From 17.02.2025)
Additional Chief Secretary,
Higher and Technical
Education, Government of
Maharashtra, Mantralaya,
Mumbai – 400 032



Shri Praful K. Patel
Administrator,
(From 30.12.2019)
U.T. of Daman & Diu and
Dadra and Nagar Haveli,
Silvasa – 396 230

Senate Nominee (Two)



Prof. Swati Patankar
(From 01.01.2024),
Department of Biosciences
and Bioengineering,
IIT Bombay,
Mumbai - 400076



Prof. B.G. Fernandes
(From 01.01.2024),
Department of Electrical
Engineering,
IIT Bombay,
Mumbai – 400076

Secretary



Mr. Ganesh Bhorkade
Registrar
(From 06.05.2024),
IIT Bombay,
Mumbai – 400076

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By
Prof. Shireesh B Kedare
Director, IIT Bombay



IIT Bombay hosted the first Indian Nanoelectronics Users Programme (INUP) on August 10, 2024 — a flagship initiative of the Ministry of Electronics and Information Technology since 2008.



From the Director's Desk...

IIT Bombay continues to be the premier choice for top-performing students in India. Among the top 50 All India Rankers (AIR) of JEE (Advanced), 47 chose IIT Bombay. This number rises to 71 out of the top 100 AIR, reflecting the Institute's enduring appeal. In global rankings, IIT Bombay made a significant leap, securing the 118th position globally (up from 149 in 2024) in the QS World University Rankings 2025 and retaining the 1st position in India. The Institute also ranked 48th in the QS Asia University rankings. It achieved 1st rank in the NIRF Innovation category, 3rd in Overall and Engineering, 4th in Research and 10th in Management.

Academic Excellence

The academic landscape at IIT Bombay continues to excel with a strong commitment to interdisciplinary learning and innovation. The Institute made offers to about 48 new faculty members this year, enriching the intellectual environment across departments. The Institute has 752 full-time faculty members on its roll. Several faculty members were honoured with prestigious awards such as the Rashtriya Vigyan Puraskar, JC Bose Fellowship and fellowships from both Indian and International Academies.

IIT Bombay remains committed to academic innovation by introducing new programmes and adopting forward-looking teaching and learning methodologies in response to the changing landscape of higher education. At the undergraduate level, the Institute has launched a B.S. programme in “Applied Geophysics” in the Department of Earth Sciences. At the postgraduate level, the Institute has launched several new initiatives:

- Master in Engineering (M.Eng.) programme in Analog/Mixed-Signal/RF IC Design in Practice offered by the Department of Electrical Engineering
- M.Tech. programme in Climate and Sustainability introduced by the Centre for Climate Studies
- Two new specialisations in M.Tech programme “Computational Materials Engineering” and “Semiconductor Materials and Processing” by the Department of Metallurgical Engineering and Materials Science

- IDDDP in MEMS in two specialisations viz. “Process Engineering” and “Ceramics and Composites” in the Department of Metallurgical Engineering and Materials Science (MEMS)
- Interdisciplinary Dual Degree programme initiated by the Department of Chemistry in collaboration with other departments.

IIT Bombay hosted the first Indian Nanoelectronics Users Programme (INUP) Users' Meet on 10th August, 2024 — a flagship initiative of the Ministry of Electronics and Information Technology since 2008.

On the global front, IIT Bombay signed a landmark MoU with Tohoku University, Japan, to launch a collaborative platform for research and innovation. This collaboration will lead to joint research programmes and the initiation of dual doctoral and master's degree programmes.

Research and Innovation

The Institute has intensified its research endeavours with a sharp focus on cutting-edge areas such as “World-class drone technologies”, “Climate resilience in coastal regions”, “Interdisciplinary Cancer Immunotherapy Network (CIN)”, “Generative AI (BharatGen)” and “Carbon capture, semiconductors, quantum sensing, hydrogen storage”.

Supported by the Department of Science and Technology under the National Quantum Mission, IIT Bombay established the Qmet Tech Foundation, a Thematic Hub in Quantum Sensing and Metrology.

The Institute's Board of Governors (BoG) has also approved the establishment of the Centre for Sophisticated Instruments and Facilities (CSIF), which will integrate all advanced research facilities across the campus under one roof.

During 2024-25, 258 R&D sponsored projects and 797 consultancy projects with a financial outlay of Rs. 333.21 crores and Rs. 203.68 crores respectively have been carried out in diverse areas of science, engineering, management and social sciences. IIT Bombay filed 217 intellectual property (IP) applications and 216 IP rights were granted. Several breakthrough technologies in robotics, semiconductors, 5G Communications and

Cancer therapy were commercialized. A new policy was also introduced to allow equity holding in start-ups associated with IIT Bombay researchers, further strengthening the entrepreneurship ecosystem.

Sustainability and Well-being

In June 2024, IIT Bombay released its Sustainability Policy, affirming its commitment to a green and healthy campus. Some of the key initiatives carried during the year include “Campus-wide cleanliness drives and environmental awareness programs conducted by the Public Health Office”, “Tree plantation during Van Mahotsav in July 2024” and “A conversation on “Mind Matters for Well-Being” with Dr. Vivek Murthy, US Surgeon General on World Mental Health Day”.

Student Achievements and Community Impact

- Team SHUNYA, representing India, won the 1st place in the Multifamily Housing Division at the US Solar Decathlon Design Challenge 2024 in Colorado, USA.
- IIT Bombay secured the Overall General Championship at the 57th Inter IIT Sports Meet— its 13th title, reclaiming glory after seven years. The Institute also earned 2nd place in the Women's and 3rd in the Men's Overall Standings.

Outreach, Entrepreneurship and Support Systems:

The Institute of Eminence (IoE) Cell continued to support initiatives in research, faculty exchange, start-up incubation and student international travel.

To enhance administrative and technical capabilities, several faculty and staff members participated in national and international training programs. The Board of Governors approved the establishment of the Administrative Training Centre (ATC), aimed at upskilling non-teaching employees in higher education institutions.

The Institute extends its appreciation to all its faculty, staff, students, alumni and partners for their collective efforts which has significantly contributed to IIT Bombay's journey of excellence.

– Prof. Shireesh B Kedare

ACADEMIC PROGRAMMES



IIT Bombay remains committed to academic innovation by introducing new programmes and adopting progressive teaching and learning methodologies in response to the changing landscape of higher education. At the undergraduate level, the Institute has launched the B.S. programme in “Applied Geophysics” in the Department of Earth Sciences and at the postgraduate level, the Institute has launched several new initiatives, including:

A Master in Engineering (M.Eng.) programme in Analog/ Mixed-Signal/RF IC Design in Practice offered by the Department of Electrical Engineering; an M.Tech. programme in Climate and Sustainability introduced by the Centre for Climate Studies; introduction of two new specialisations in M.Tech programme “Computational Materials Engineering” and “Semiconductor Materials and Processing” and an IDDDP in MEMS in two specialisations viz. “Process Engineering” and “Ceramics and Composites” in the Department of Metallurgical Engineering and Materials Science (MEMS); and an Interdisciplinary Dual Degree programme initiated by the Department of Chemistry in collaboration with other departments.

The Institute has also introduced a Cotutelle PhD programme between IIT Bombay and Tohoku University, Japan.

As part of its outreach activities towards executive education, new e-Postgraduate Diploma (ePGD) programmes have been introduced across various departments and centres including “AI and DATA Science” in the Centre for Machine Intelligence and Data Science (CMIInDS); “E-Mobility” in the Department of Electrical Engineering; “Interaction Design” in the IDC School of Design and e-Postgraduate Diploma in “Computer Science and Engineering” in the Department of Computer

Science and Engineering.

Launch of new Executive-Postgraduate Diploma (ePGD) programmes:

Diploma in AI and Data Science

IIT Bombay launched the Executive-Postgraduate Diploma in Artificial Intelligence and Data Science offered by the Centre for Machine Intelligence and Data Science (C-MinDS) on 30th September 2024. This 18-month, industry-focused online programme started in January 2025. Designed and delivered by IIT Bombay faculty with Great Learning as the EdTech partner, the program will culminate with a graduation ceremony on campus, conferring alumni status.

Tailored for early and mid-career professionals, the program covers key areas in AI, Machine Learning, and Data Science. The curriculum blends core courses such as Programming for Machine Learning, Statistical Foundations, Machine Learning, Deep Learning, Generative AI, and AI-ML in Practice, alongside electives to enhance industry-ready skills.

Diploma in E-Mobility with Great Learning as its Edtech Partner

The C1973 (Class of 1973) EV Power Train Lab, Indian Institute of Technology Bombay (IIT Bombay), launched an e-Postgraduate Diploma in E-Mobility. This 18-month, industry-focused online programme started in March 2025. To be eligible for admission, an applicant must hold a B.E./ B.Tech. degree or a 4-year B.Sc./ BS degree in a relevant domain of engineering or technology, OR postgraduate (M.Tech./ M.Sc./ MS) or doctorate students in a relevant domain are also eligible. An understanding of Mathematics and Physics at the undergraduate level is also required.

This industry-focused curriculum, designed and delivered by the IIT Bombay faculty in collaboration with Great Learning, offers participants an immersive experience that combines hands-on learning with the latest tools and techniques in the industry. Graduates of this ePGD will get the benefits of IIT Bombay alumni status upon successful completion, with a graduation ceremony held at the IIT Bombay campus.

Diploma in Computer Science and Engineering (CSE)

IIT Bombay launched an e-Postgraduate Diploma (ePGD) in Computer Science and Engineering to expand access to high-quality, postgraduate-level technical education. The programme is designed to cater to a diverse and geographically dispersed audience, including working professionals, recent graduates and those seeking to formalize their industry experience with a rigorous academic qualification. The curriculum of the programme mirrors the academic standards of the on-campus programme and focuses on three key areas, viz. Advanced Programming, Computing Systems and Artificial Intelligence & Machine Learning. To earn the diploma, participants must complete 36 credits, including at least one course from each of the three themes.

Diploma in Interaction Design

IIT Bombay's IDC School of Design has expanded its offerings substantially with a postgraduate diploma programme for working professionals, called the e-Postgraduate Diploma in Interaction Design (ePGD IxD). Through this programme, IIT Bombay will be offering academic credits to working professionals for the first time in 25 years.

The ePGD IxD is a flexible, self-paced program. Learners, instead of registering for the entire programme, may register only for the courses

that interest them. Each course earns them 6 to 12 credits. Once a learner earns 36 or more credits (by attending 5 to 6 courses), they can use the credits to claim the ePGD IxD from IIT Bombay. Alternatively, learners could deposit the credits in the Academic Bank of Credits and use them elsewhere for other programmes.

Revision in eligibility criteria for admission to the MBA programme offered by the Shailesh J. Mehta School of Management, IIT Bombay

According to the existing eligibility criteria, the candidates with a Bachelor's Degree (four-years) or Master's Degree in any discipline with first class (or minimum CPI of 6.5 out of 10) have been eligible for admission to the MBA until last year. The minimum eligibility criteria for admission to the MBA has now been revised and approved by the IIT Bombay Senate last year. The revised criteria make candidates with a three-year Bachelor's Degree in any discipline with first class (or minimum CPI of 6.5 out of 10) also eligible for admission to the MBA w.e.f. the academic year 2025-26. The 2025-27 batch of MBA will include a significant number of candidates from other disciplines, unlike the situation until last year, when the batches included mostly engineers.

The revision in eligibility criteria is intended to improve the discipline and gender diversity of the cohort, given the multi-disciplinary nature of management. The diverse cohort will also help bring different perspectives to the classroom discussion and enrich the learning experience. The case method employed in management education and training also requires diversity in the classroom given the unstructured situations managers are required to deal with as there are no unique solutions or unique algorithms to solve the problems unlike in Science and Engineering.

62nd Convocation and Department Degree Award Function (DDAF)

The 62nd Convocation and Departmental Degree Award Function (DDAF) was held in the academic units of the degree recipients at the Indian Institute of Technology Bombay (IIT Bombay) campus on two consecutive days viz. August 24th and 25th, 2024. The DDAFs of the 62nd Convocation was presided over by a Departmental Chief Guest, Head of Department and faculty members of the Department. A total of 3303 degrees were awarded to 3019 students during the academic year 2023-24, including 498 PhD degrees. [This includes degrees awarded during the interim session of the 62nd Convocation held on February 24, 2024].

During the function, the President of India Gold Medal was bestowed on Vedang Dhirendra Asgaonkar, a B.Tech. student from the Department of Computer Science and Engineering. The Dr. Shankar Dayal Sharma Gold Medal was conferred on Kaivalya Sanjay Daga, a B.Tech. student from the Department of Mechanical Engineering. Additionally, many more students were presented with other gold and silver medals to recognize their excellent performance.

IIT Bombay held the Interim Session of its 63rd Convocation on 22 February 2025 at the

Convocation Hall. Mr. Abhishek Singh, IAS, Additional Secretary, MeitY, Government of India, was the Chief Guest. The event was presided over by Dr. Sharad Kumar Saraf, Chairperson, Board of Governors, and degrees were conferred by Director Prof. Shireesh Kedare.

A total of 354 degrees were awarded, including 219 PhDs (with dual and joint PhD programmes) and 135 degrees across other programmes. This included 36 Executive MBA and 6 Master in Development Practice (CTARA) degrees being awarded for the first time. The degrees were conferred on students who completed academic requirements between August 2024 and January 2025 and opted for early award.

Commencement 2024

IIT Bombay held Commencement 2024 on May 3, 2024 at the Institute's Convocation Hall. Mr. Natarajan Chandrasekaran, the Chairman of Tata Sons, the holding company and promoter of all Tata Group companies, was the Chief Guest at the ceremony and delivered the Commencement Address. During the afternoon session, about 2489 students who were likely to graduate, were invited for a photo opportunity with the Director on the dais. The students included (approx) 1249 undergraduate, 1005 postgraduate and 235 PhDs.

GRADUATION STATISTICS

Year	UG/ DD			Masters			Ph.D.			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
2025	1,108	268	1,376	1,299	316	1,615	328	170	498	2,738	754	3,489
2024	1,047	261	1,308	1,225	271	1,496	308	193	499	2,578	725	3,303
2023	968	208	1,171	1,191	296	1,487	296	124	420	2,450	628	3,078
2022	820	129	949	1,192	245	1,437	309	140	449	2,321	514	2,835
2021	820	107	927	1,123	271	1,394	249	129	378	2,192	507	2,699

*Number of degrees.

RESEARCH AND DEVELOPMENT ACTIVITIES

R&D ACTIVITIES

The research and development initiatives at IIT Bombay continued to thrive in FY 2024-25. The Office of Dean (R&D) played a key facilitating role by administering R&D projects, industry interactions, managing intellectual property and licensing activities, reviewing and finalizing R&D - related agreements and contracts and disseminating R&D - related information in various fora. Many new R&D projects and related activities were undertaken this year.

IIT Bombay received extra-mural funding to the tune of Rs. 471 crores in FY 2024-25 for its R&D activities. This is a 10% increase in receipts over the last financial year. A total of 258 R&D projects were initiated with a sanctioned outlay of Rs. 333.21 crores. Consultancy projects worth Rs. 203 crores were also initiated during this period. Consultancy project outlays have seen an increase of 20% as compared to FY 2023-24.

The R&D projects are augmented by the alternate funding mechanisms adopted by DST in recent years. During last financial year, IIT Bombay received DST's support for the project "BharatGen: Inception Phase for Speech and Text Dataset, Conversational LLM and Use Case Development"

through its Technology Incubation Hub (TIH-IoT), a Section-8 company of IIT Bombay. Currently, DST has sanctioned around Rs. 235 cr for this project. The project focuses on developing foundational components necessary for advanced AI technologies tailored to the linguistic and cultural diversity of India. This pilot phase aims to create the initial versions of conversational AI models and datasets, laying the groundwork for future advancements.

Due to the outstanding contributions of IIT Bombay research groups in the area of quantum sensing, Department of Science and Technology (DST), Government of India has selected IIT Bombay to set up a Thematic Hub in Quantum Sensing and Metrology as a part of the National Quantum Mission launched recently. With a sanctioned outlay of Rs. 589 cr, this Hub will spearhead national efforts towards building robust quantum capabilities, nurturing talent and establishing strategic partnership with industries and global research institutions. A Section-8 company, QMET, has been formed by IIT Bombay for carrying the Hub activities.

R&D projects both as short duration consultancy projects and longer duration sponsored research projects were initiated (Table 1).

Table 1: Information on new projects sanctioned during last 3 years

Financial Year	Sponsored Projects		Consultancy Projects	
	Number	Sanctioned outlay (Rs. in crores)*	Number	Projects outlay (Rs. in crores)*
2024-25	258	333.21	797	203.68
2023-24	335	389.32	779	170.66
2022-23	280	330.66	776	111.39

*: includes GST for Indian party/ clients

EXTERNAL GRANTS FOR R&D

IIT Bombay received Rs. 471.56 crores in FY 2024-25 from external agencies. These include funds for new as well as ongoing projects as indicated in Table 2.

Table 2: Funds received for R&D in FY 2024-25

Project Type	Funds received
	(Rs. in crores)
Sponsored Projects	301.25
Consultancy Projects	157.20
Royalty	1.77
Equipment usage	11.34
Total	471.56

This year, funds were majorly received from government agencies with a sizeable contribution from industries (both Indian and foreign) as well as trusts, societies etc. Non-governmental agencies including industries (both Indian and foreign) contributed almost 40% of these receipts. The percentage contribution of different types of funding agencies is shown in Figure 1.

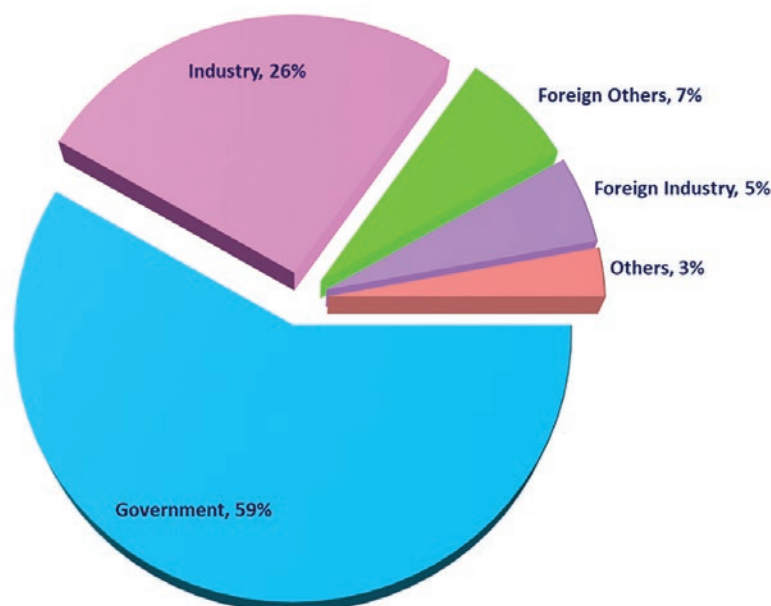


Figure 1: Types of funding agencies and percentage contribution for R&D receipts (Sponsored Projects + Consultancy Projects) in FY 2024-25

In FY 2024-25, IIT Bombay initiated 258 R&D projects out of which more than 80 projects were funded by industries (both Indian and global) with a sanctioned outlay of Rs. 67 cr. These projects span various domains of research in science and engineering – both applied and basic as well as humanities, social sciences and management studies.

Some highlights are given below:

- **National IP Award 2024:** IIT Bombay has received the National IP Award 2024 for Best Indian Organization for Design Patent applications. This year, the Institute has filed 217 IP applications (including 164 patents) and 216

IPs (including 172 patents) have been granted/registered. We have licensed 50 technologies to various start-ups and industries.

- **TaRANG:** The Ministry of Electronics and Information Technology (MeitY), Government of India has funded a project titled ‘Translation & Research for Advanced Nanoelectronics Growth’ (TaRANG) to develop cutting-edge nanoelectronics technologies through excellence in applied research and to translate these into solutions for industry and Indian strategic user agencies. IIT Bombay has also entered into a project with Centre for Development of

Telematics (C-DoT) to develop chipset for free-space high bandwidth coherent optical links.

Sanctioned Outlay: Rs. 63 crores over 4 years

- **Scale-up of Perovskite Tandem Solar Cells (Phase-I):** The Ministry of New and Renewable Energy has funded a project on Scale-up of Perovskite Tandem Solar Cells (Phase I). The primary aim is to undertake a diversified strategy to advance indigenous, efficient tandem photovoltaics (PV). This endeavour encompasses activities spanning manufacturing, deployment and the scaling up of perovskite tandem solar cell technology for industry compatibility.

Sanctioned Outlay: Rs. 45.74 crores over 3 years

- **Framework for Financial and Economic Sustainability of Suburban Railway system:** Another interesting project is to develop a framework for Financial and Economic Sustainability of Suburban Railway system as a mode of urban-transport in Mumbai Metropolitan Region (MMR). In this study, IIT Bombay will carry out a comprehensive analysis of suburban rail services in the region, focusing on a bottom up understanding of the costing of services and also of the delivery of transport outcomes in passenger movement in the region.

Sanctioned Outlay: Rs. 5.88 crores over 3 years

- **Forecasting of generation from renewable energy sources in India:** A project on forecasting of generation from renewable energy sources in India focusses on delivering skillful predictions of solar and wind energy output, thereby facilitating better grid integration, grid stability and resource management. The study will leverage a state-of-the-art physics-based regional model and machine learning techniques, using the observed meteorological data, and historical energy production data to develop a robust and accurate forecasting system. A web-portal will be co-developed for disseminating the forecasts with sustained feedback from stakeholders.

Funding Agency: Grid Controller of India Limited National Load Despatch Centre

Sanctioned Outlay: Rs. 4.1 crores over 4 years

- **Health Training and Capacity Building:** This year, IIT Bombay has undertaken a project of great societal benefit with the support of Bill and Melinda Gates Foundation. The project on State

Level Health Training and Capacity Building in Meghalaya through Health Spoken Tutorials (HST) is proposed to train the best ASHA and Anganwadi workers and all health workers of the State of Meghalaya by using the 100+ Health Spoken Tutorials (HST) available in the area of health and nutrition. The weight of newborns and other babies is expected to increase and the malnutrition is expected to decrease.

SOME MAJOR SPONSORED PROJECTS INITIATED IN FY 2024-25:

- **Optical Transceiver Chipset for High-Bandwidth 6G Wireless Links**
Funding Agency: Centre for Development of Telematic (C-DOT)
Sanctioned Outlay: Rs. 13.2 crores over 3 years
- **Perovskite Solar Modules**
Funding Agency: Ministry of New and Renewable Energy
Sanctioned Outlay: Rs. 7.85 crores over 3 years
- **Addressing Newborn Nutritional Health in Meghalaya**
Funding Agency: Bill and Melinda Gates Foundation
Sanctioned Outlay: Rs. 5.65 crores over 2 years
- **NeuroFlex: RRAM-Enhanced Neural Interfaces for Reconfigurable Implantable Machine Intelligence**
Funding Agency: Ministry of Electronics and Information Technology
Sanctioned Outlay: Rs. 4.9 crores over 3 years
- **National Disease Modelling Consortium Phase II: Developing Models to Estimate and Project Disease Burden to Inform Control and/or Elimination Strategies for Priority Diseases in India**
Funding Agency: Indian Council of Medical Research
Sanctioned Outlay: Rs. 4.8 crores over 4 years
- **Information Security Research in Futuristic Technology**
Funding Agency: Ministry of Electronics and Information Technology
Sanctioned Outlay: Rs. 4.7 crores over 5 years
- **Establishment of a Multi-Centric and Interdisciplinary Cancer Immunotherapy Network (CIN)**

Funding Agency: Department of Biotechnology

Sanctioned Outlay: Rs. 4.5 crores over 3 Years

Along with sponsored R&D efforts, consultancy activities were taken up this year for different government, public sector and industry, both Indian and international. The types of consultancy provided included expert advice, retainership, product/process/ software development, analysis, evaluation, image reconstruction and stress testing.

Some representative consultancy project areas are listed:

- Composite design
- Structural and Biophysical Characterisation
- Imaging and Image Reconstruction
- Technical and Research Advisory

- Electrochemical modelling
- Climate Risk Analysis
- Battery technology
- Water audit
- Study of carbon footprints
- Structural audits

INTERNAL FUNDING FOR R&D

The Institute released funds to the tune of Rs. 43 crores for R&D related activities. The Institute provided internal funding for supporting faculty research. Of these funds, 7 crores were sanctioned as seed grant and augmented seed grant for initiation of research for new faculty members.

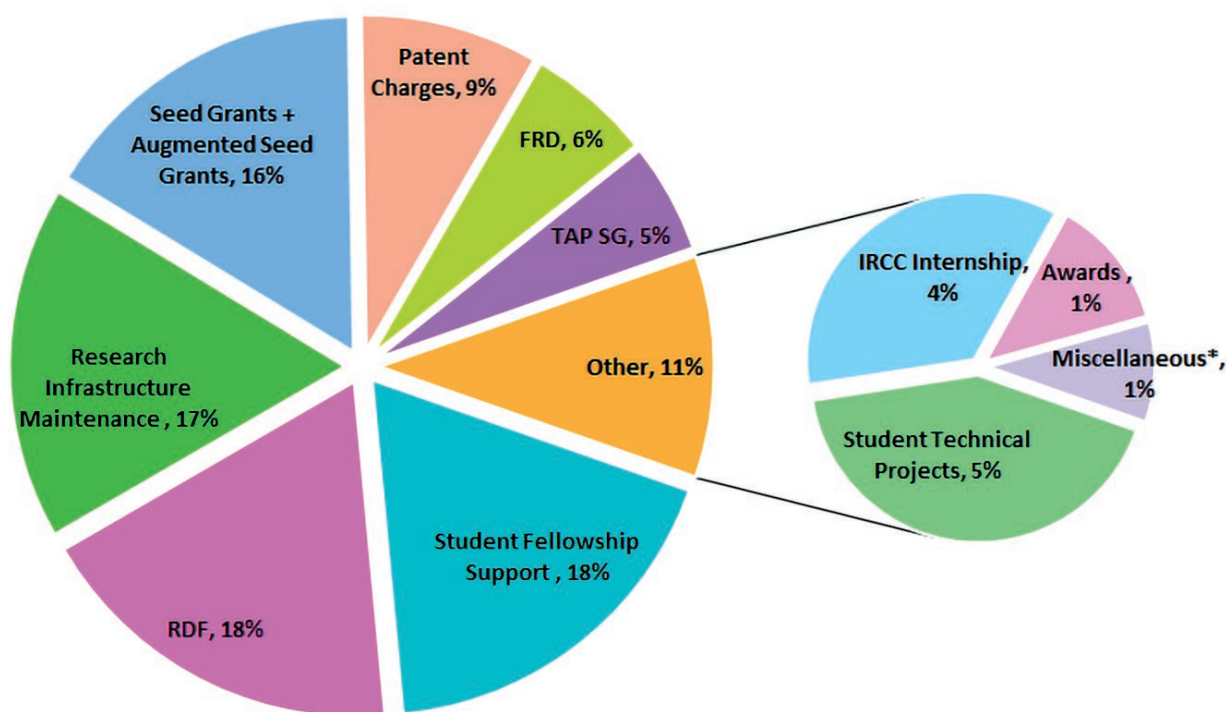


Figure 2: Percentage distribution of Institute funding related to R&D activities in FY 2024-25

The research funds were distributed across the following areas:

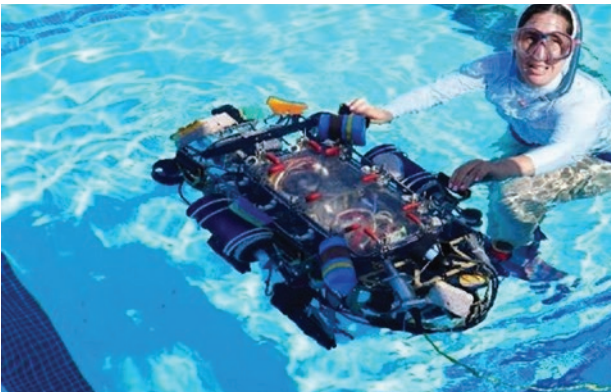
- Seed grant for initiation of research for new faculty
- TAP Seed Grant
- Maintenance of central and national research facilities
- Awards and recognition
- Facilitating grants to faculty members for filing patents, research publications and/ or international travel
- Student fellowship support
- Researcher Development Fund
- IRCC Internship
- Student Technical Projects

Some glimpses of Student Technical Project activities in FY 2024-25:

- ◆ **Team AeRoVe** has secured top ranks globally, including 4th place at RoboDrive 2024 for their innovative BEV detection system, and emerged as World Champions at Ri4Rover 2024 with their autonomous drone. They also won the Design & Innovation Award at CUASC 2024 for their advanced QuadPlane VTOL UAV.



- ◆ At RoboSub 2024 in Los Angeles, **Team AUV** secured 4th place overall in the autonomy challenge and won 1st place for their Technical Design Report, which was published in the American Naval Engineer's Journal. Their Team Introduction Video ranked 4th, and they pre-qualified two months early, outperforming top American universities.



- ◆ The **IITB Rocket Team** secured 35th place internationally at IREC 2024 among 160+ teams and ranked 2nd nationally in India. They are actively engaged in rocketry innovations, including participation in the INSPACe Model Rocketry Competition, where they have qualified for the final round. Additionally, they are developing an Active Control Rocket with full 3D trajectory control and a Hybrid Rocket Engine for improved performance.



- ◆ **The Mars Rover Team** was placed 2nd Runner-Up in Round 1 of the European Rover Challenge (ERC) 2025 and won the Best Astrobiology Presentation Award at the International Rover Challenge (IRC) 2025 in Goa, where they also ranked 9th internationally. At the University Rover Challenge (URC) 2024 in Utah, they ranked 2nd in India and 22nd globally, with a 9th place finish in the Science Mission. They have also been selected among the top 38 teams worldwide for URC 2025.



- ◆ **Team Rakshak** excelled at the Unmanned Aerial System (UAS) Challenge 2024 in the UK with their aircraft 'Ares,' winning the Operational Supportability Award for the fastest assembly time (1 min 53 sec), securing 2nd place in simulation and receiving special mentions for scrutineering and best manual flight. Additionally, they ranked among the top 10 participants globally in the Lufthansa Technik InnovAero Challenge 2024 in Germany.



- ◆ **SPART** (Solar Power Airship Research Team) gained national recognition as a finalist at the Vishwakarma Awards 2024 for their semi-rigid airship Pushpak, designed for disaster relief. Pushpak was also showcased at IIT Bombay's Aerospace Industry-Academia Symposium, earning praise from industry experts and academics.



IIT Bombay - Industry Interactions for R&D

The Institute continued its efforts to enhance interaction with its industry collaborators. Around 250 Indian and international industries approached IIT Bombay for partnership through collaborative R&D projects and consultancy services. The interactions were managed seamlessly by facilitating exploratory meetings and

technical discussions with faculty members in areas of mutual interest. Around 140 meetings, in both physical and virtual modes, were coordinated by the Industrial Research Consultancy Centre (IRCC) during the year 2024-25. Agreements were entered into to establish a formal association. A break-up of requests from different types of industries is given in Figure 3:

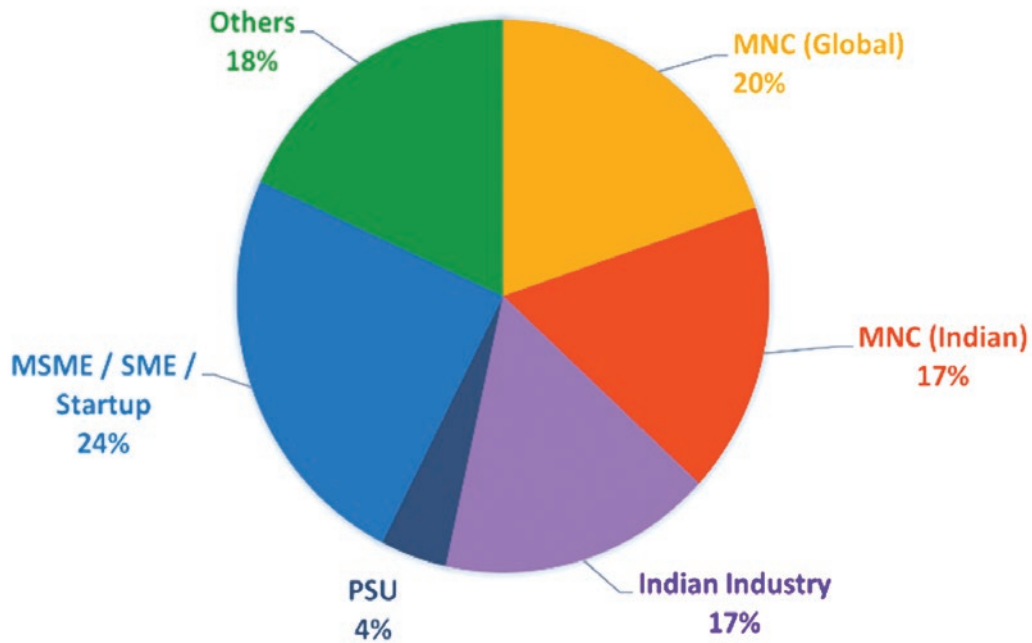
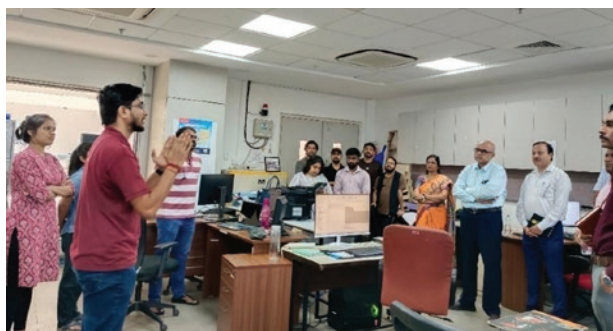


Figure 3: Number of requests from different types of industries in FY 2024-25

Some of the industries and PSUs that visited and/or approached the Institute to explore research collaborations include:

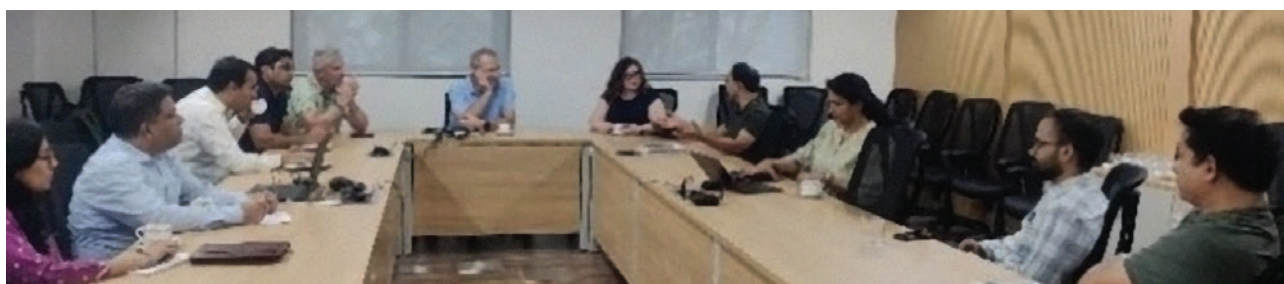
- Adani Group
- Amazon India
- Armoured Vehicles Nigam Ltd
- Blue Star
- Capgemini India
- Cummins
- Deloitte
- Directorate of Revenue Intelligence
- Eaton
- Essar Exploration & Production
- Godrej & Boyce
- Google Research
- HAL India
- Hero MotoCorp
- Hilti
- Hitachi Energy
- Honda
- Jindal Steel & Power Ltd
- KPIT Technologies
- L&T Green Energy
- L&T Precision Engg. & Systems
- L'Oreal
- Maruti Suzuki
- MUNDRA Solar
- Novartis India
- Octagon Exports
- Oracle
- Pfizer
- Puri Crawford
- Rolls Royce
- Siemens Energy
- Sony Research
- Tatva Chintan Pharma Chem
- TCE
- The Hershey Company
- TotalEnergies
- Unilever
- Zydus Life



Lab visit by MEDA Officials



Meeting with Atos Global IT Solutions and Services



Meeting with The Hershey Company

R&D Related Agreements

More than 300 agreements were finalized and signed during the year including those for research collaboration, non-disclosure agreements, student sponsorships, endowment, material transfers etc. with industries, organizations, universities and government, both national and international.



MoU Signing with MITRA



MoU signing with Government of Maharashtra with YASHADA



MoU signing with Honda Memorandum of Understanding with SANGAM Foundation and Maharashtra University of Health Sciences (MUHS)



A break-up of agreements signed with different types of external agencies is given in figure 4:

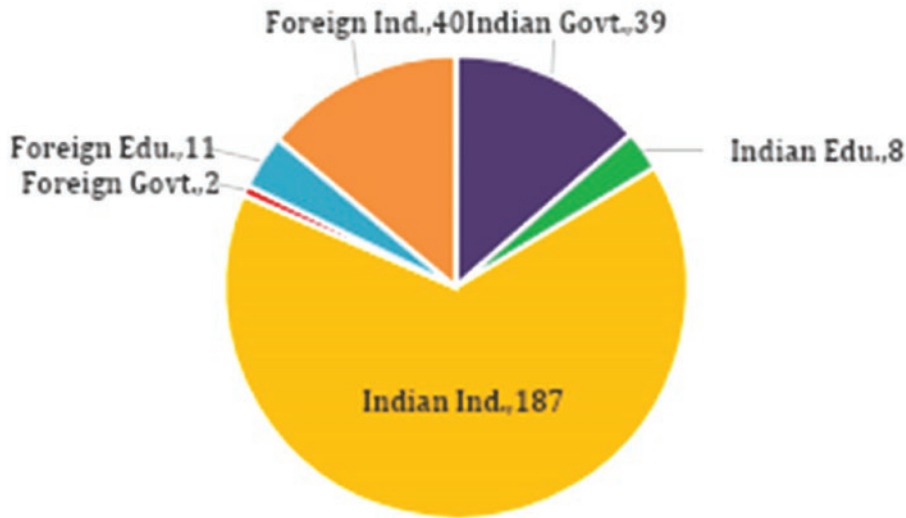


Fig 4: Number of agreements signed with different type of external agencies in FY 2024-25

Intellectual Property (IP) Protection Activities

During FY 2024-25, 217 intellectual property (patent, trademark, design and copyright) applications were filed. The details of all Indian and international IPR filings and grants are given in Table 3.

Table 3: Patents, other IPR Applications filed & granted during FY 2024-25

Type of IP	Applications filed (No.)	Granted (No.)
Indian Patent	143	169
Patent Cooperation Treaty (PCT)	14	NA
Foreign Patents	7	3
Trademark	42	36
Industrial Design	8	7
Copyright	3	1
Total IPs	217	216

application software, offers a comprehensive approach to tinnitus care management. The technology has been licensed to a start-up founded by the inventors, which is now working towards commercialization through product development, clinical trials and regulatory approvals.

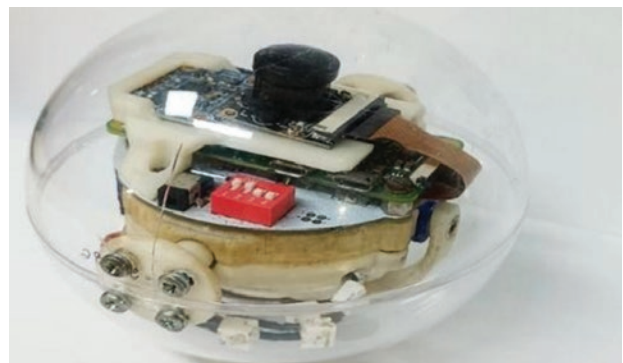


A device to diagnose and manage tinnitus

Technology Licensing Activities

This year, IIT Bombay has licensed 50 technologies to the industries and start-ups. The technologies vary from robotics, software, semiconductor to healthcare, medical devices, cleantech domains. Some examples are given below:

IIT Bombay researchers have developed an affordable device to diagnose and manage tinnitus. This innovative solution, complemented by supporting



Spherical Robot

IIT Bombay has developed a tele-operated Spherical Robot designed for room intervention in defence, law enforcement and industrial applications. This innovative robot can be deployed in hazardous, difficult or enemy-intruded areas and operated remotely from a safe location. The technology has been licensed to the industry for further development and commercialization.

IIT Bombay researchers have developed the SAFE platform. This platform is being utilized by institutions for a wide range of applications, including custom assessments and evaluations, attendance tracking, surveys and polls, all accessible through both mobile and web applications. IIT Bombay is actively collaborating with industry partner to extend SAFE's reach to diverse organizations and corporations, tailoring the platform to meet specific requirements.



Smart Thermoplastic Composites

IIT Bombay researchers have developed innovative smart thermoplastic composites that can be softened, reshaped and re-hardened on demand. These materials can be softened by applying energy (e.g. electrical input), allowing them to be easily reshaped and subsequently hardened in the desired form. This technology holds significant promise for applications in the medical and healthcare sectors. The technology has been licensed to a start-up founded by the inventors, which is now working towards commercialization through research and development.

An IIT Bombay researcher's startup has commercialized the technology related to stance-controlled knee-ankle-foot orthosis (KAFO). The stance-controlled knee-ankle foot orthosis (SCKAFO)

is an innovative medical device designed to improve the mobility of individuals with weakened knee joints, often due to conditions like poliomyelitis. The startup is making available the product with affordable price through NGO and government hospitals etc.



Stance-controlled knee-ankle foot orthosis

ENTREPRENEURSHIP ACTIVITIES

Revisions in IIT Bombay's Start-up Policy (2024) : In 2024, IIT Bombay revised its startup policy to encourage innovation and entrepreneurship. The Institute has introduced an equity model of co-founding which will replace the existing revenue sharing model. This will reduce the financial burden on the start-ups thereby facilitating their growth.

Office of Dean R&D through Prof. Sachin Patwardhan (Dean, R&D) and Prof. Upendra Bhandarkar (former Associate Dean, R&D) conducted an interactive session to explain the policy's key features. The session focused on revised guidelines, faculty and researcher involvement in startups, and new engagement models for IIT Bombay.



Fig: Talk on revisions in IIT Bombay's Start-up Policy

SUPPORT TO ENTREPRENEURSHIP

In FY 2024-25, IIT Bombay provided 30 in principle approvals/ NoCs to IIT Bombay researchers for starting a company/ new venture and for using technologies/ intellectual property created and developed in the Institute.

AWARDS AND RECOGNITIONS

IIT Bombay Awards for R&D-related activities:

To commemorate the birth anniversary of India’s first Education Minister Maulana Abul Kalam Azad, IIT Bombay celebrated National Education Day on 11th November, 2024. Prof. Vasudha Kamat, former Vice-Chancellor of SNDT Women’s University, Mumbai, was the Chief Guest on the occasion.

Various R&D research awards such as Research Publication Awards, Impactful Research Awards, Dr. P.K. Patwardhan Technology Development Awards and Rakesh Mathur Awards for Excellence in Research were conferred on the faculty recipients based on a call for-nominations and selection by a committee appointed by the Director. The following are the award recipients with citations:

IIT Bombay Research Publication Awards 2023

- Prof. Samir Maji, Department of Biosciences and Bioengineering for Protein Phase Separation and its association with Neurodegeneration

- Prof. Gopal Patil, Department of Civil Engineering for Maneuvering of pedestrians and vehicles at uncontrolled road crossings
- Prof. Supratik Chakraborty and Prof. S. Akshay, Department of Computer Science and Engineering for Automated Boolean functional synthesis
- Prof. Harish Phuleria, Environmental Science and Engineering Department for Environmental Assessment – Air Quality and Emissions
- Prof. Aswani Yella, Department of Metallurgical Engineering and Materials Science for Halide Perovskites: From New Materials to Energy Conversion Devices

IIT Bombay Impactful Research Awards 2023

- Prof. Ganesh Ramakrishnan, Department of Computer Science and Engineering for Natural language processing, Machine learning, Machine Translation
- Prof. Sahana Murthy and Prof. Sridhar Iyer, Centre for Education Technology for Educational Technology



Awardees on National Education Day

EXTERNAL R&D AND IP AWARDS

IIT Bombay has been awarded the prestigious National Intellectual Property Award 2024 in the category of Top Indian Organisation for Design Patent Applications 2024. Prof. Upendra Bhandarkar, former Associate Dean (Research and Development) IIT Bombay, received

the award on behalf of the Institute. The award was presented by Shri Piyush Goyal, Hon'ble Union Minister of Commerce & Industry; Justice Prathiba M. Singh, Delhi High Court and Prof. Unnat Pandit, Controller General, Indian Patent, Designs and Trade Marks.



IIT Bombay wins National IP Award 2024



Prof. Amartya Mukhopadhyay receives the TATA Transformation Prize 2024



Prof. Sachin Patwardhan & Tata Steel team receives 2024 INFORMS Franz Edelman Finalist Award

Research Internship Awards

Given to bright students across the country to undertake research at IIT Bombay for six months. These awards are based on national advertisement and selection process. Each selected intern gets monthly stipend of Rs. 15,000 for six months (subject to them not getting any support from parent organization/ government (MHRD)).

- Number of applications received: **3257**
- Number of Interns joined: **164**
- Other contingency expenditure per intern: **Rs. 75,000**

R&D DISSEMINATION AND OUTREACH

ICONS 2025: IIT Bombay Workshop on Defence

As part of the annual IRCC CONferences on emerging concepts [ICONS], a two-day workshop on Defence Technologies was organized by the Office of the Dean (Research and Development) on 28th February and 1st March 2025, under the theme 'Better and Faster Tech for Defence'. The workshop explored cutting-edge technologies shaping next-generation defense, fostering in-depth discussions, insightful presentations and valuable networking opportunities.



The workshop featured insightful addresses by General Manoj C. Pande, PVSM, AVSM, VSM, ADC (Retd.), former Chief of the Army Staff, who underscored the critical role of technological advancements in modern warfare and Air Chief Marshal Vivek R. Chaudhari, PVSM, AVSM, VM, ADC (Retd.), former Chief of the Air Staff, who highlighted the impact of technology in military operations and national security.

The workshop featured sessions on high-performance materials for defence applications, digital technologies in military operations. The event also featured prototypes and poster presentations by IIT Bombay faculty and startups, showcasing innovative defence technologies. With nearly 200 attendees, ICONS 2025 fostered dynamic discussions, knowledge exchange and strategic collaborations, paving the way for a more secure and resilient future.



Industry Day on Digitization: As part of National Technology Day 2024, the Office of the Dean (Research and Development) organized an Industry Day on Digitization on 11th May, 2024. The event aimed to showcase the diverse research and development activities at IIT Bombay in the field of digitization, foster academia-industry collaborations, explore emerging technological trends and address societal challenges through innovative solutions.

The event featured two key sessions on IIT Bombay's cutting-edge capabilities in digital technologies and successful academia-industry collaborations, demonstrating impactful use cases from past engagements. To offer participants with a firsthand experience of the Institute's research infrastructure, visits were arranged to the Microstructural Mechanics and Micro-forming Laboratory, Hybrid Additive Manufacturing Laboratory and Embedded Control Lab.



INDUSTRY DAY ON CONNECTED AND AUTONOMOUS VEHICLES (CAVS) :



Industrial Research and Consultancy Centre (IRCC) and the Department of Civil Engineering hosted the 'Industry Day on Connected and Autonomous Vehicles (CAV)' on 15th February, 2025. The event brought together prominent leaders from the automotive, telecommunications and intelligent transportation sectors, along with academic experts to collectively discuss the future of mobility. The discussions

focused on identifying actionable priorities for developing scalable, affordable and India-centric CAV technologies. The Chief Guest Mr. Prashant Jagannath Fegde, Regional Officer, National Highways Authority of India (NHAI), Ministry of Road, Transport and Highways (MoRTH), Government of India shared valuable insights to help shape the vision for India's future in mobility. The event included a panel discussion of industry experts to discuss the shaping of pathways to accelerate innovation from prototypes to market-ready solutions and ways to align their organizations with emerging CAV standards, in association with IIT Bombay.

Lab visits were arranged for the participants to IIT Bombay's Autonomous Robots and Multi-robot Systems (ARMS) Lab and Electric Vehicle (EV) Power Train focusing on the production of small vehicles (two/ three/ four-wheelers) in the country.



Various industry experts during Industry Day held at IIT Bombay

TechConnect 2024 :

TechConnect 2024, an annual event showcasing IIT Bombay's R&D activities, was organised by the Office of the Dean (R&D) during 17th-19th December, 2024. TechConnect stalls saw a great turnout this time, with visitors excited about the wonders of science and technology. The Chief Guest Dr. Samir V. Kamat, Secretary, DDR&D and Chairperson, DRDO, inaugurated the event alongside the Director, Prof. Shireesh Kedare and functionaries of the Institute. His inspirational talk on 'Defense R&D – Challenges and Opportunities' was a big highlight of the event.

The event witnessed an enthusiastic participation of faculty members and approximately 600 volunteers,

including students and project staff, who actively engaged with visitors over the three days. In addition to the 29 academic units and student tech teams displaying Institute's vibrant research and innovation ecosystem with working models, demonstrations, and product exhibits, the Research Park, the Industrial Research and Consultancy Centre (IRCC) and the Society for Innovation and Entrepreneurship (SINE) also set up their stalls.

Besides exhibition, this year technical symposiums were conducted during the TechConnect, wherein 10 IIT Bombay Departments/ Centres demonstrated the R&D activities more interactively with well-curated segments such a presentations, panel discussions,

talks, research highlights, technical quizzes and guided lab visits. The symposium witnessed significant participation from various industries and companies facilitating valuable networking opportunities, encouraging potential academic-industry partnerships. The TechSymposiums was a unique platform showcasing showcasing IIT Bombay's commitment to research innovation and academic excellence to more than 200 researchers and corporate professionals from around 100 companies.



Another event organized under TechConnect 2024 was ResCon, a research conclave highlighting the student driven research projects and activities, under the aegis of the Office of the Dean (R&D). It hosted the prestigious Soch Vichar Achar competition, designed to spark intellectual curiosity among undergraduate students across India. This competition provided a distinguished platform for participants to show their innovative research and win attractive prizes.



STUDENT EVENT

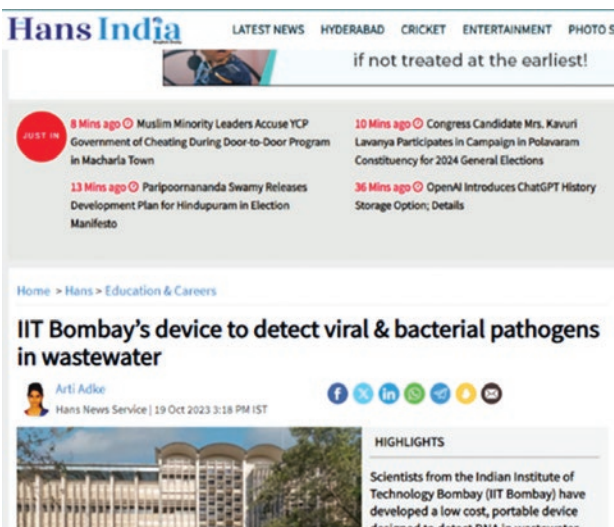
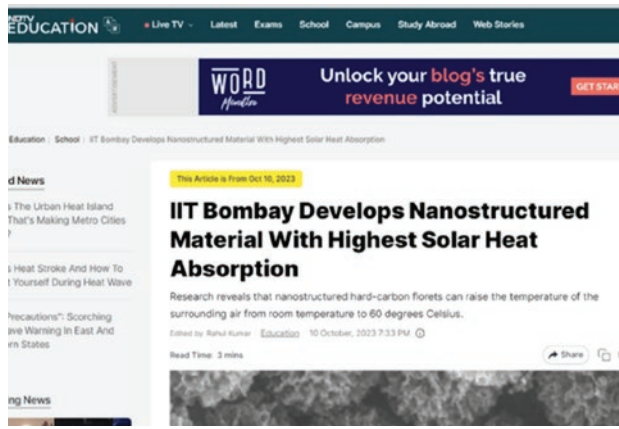
ENTHUSE, conducted as a part of the Under Graduate Orientation Programme at IIT Bombay, is organized annually by IRCC in collaboration with EnPoWER. This year, ENTHUSE 2024 was held on 28th July, 2024. More than 1,400 newly joined undergraduate students participated in the event. The event, held simultaneously at four venues on the IIT Bombay campus, was anchored by Prof. Leena Vachhani (Department of Systems and Control Engineering), Prof. Sai Vinjanampathy (Department of Physics), Prof. Vikram Vishal, (Department of Earth Sciences) and Prof. Nagamani Jaya Balila (Department of Metallurgical Engineering and Materials Science). About 20 professors from various departments shared an inspiring overview of their research, as well as highlighted the diverse, interdisciplinary research being done at IIT Bombay, ranging across fundamental sciences, socially relevant areas, high-end cutting-edge technologies, futuristic research areas and more. The newly joined undergraduates were perceptibly intrigued

by the research opportunities at IIT Bombay. Their keen enthusiastic response towards research at ENTHUSE makes us look forward to a much higher level of involvement of the undergraduate students in research activities at IIT Bombay.



MEDIA OUTREACH FOR R&D

IRCC realizes the need to communicate its R&D efforts with the wider society. Towards this, IRCC brought out 18 easily accessible stories this financial year conveying IIT Bombay's achievements. These articles have been released in English, Hindi and Marathi languages. Many of these articles have been picked up by mainstream and online media and disseminated further.



IInvenTiv 2025: IIT Bombay participated in IInvenTiv 2025 - a mega R&D fair where all IITs, NITs, IISERs and top 50 ranked NIRF institutions in the country showcase their R&D activities. This year the fair was held at IIT Madras in Chennai during 28th February - 1st March, 2025. The event was inaugurated by Dr. Sukanta Majumdar, Hon'ble Minister of State for Education and was attended by many academicians, entrepreneurs and industry leaders.

IIT Bombay set up 6 exhibits showcasing technologies of national and societal importance in multiple domains like

aviation, space, defence, AI/ ML, advanced manufacturing, circularity & sustainability, smart city & infrastructure, marine technology.

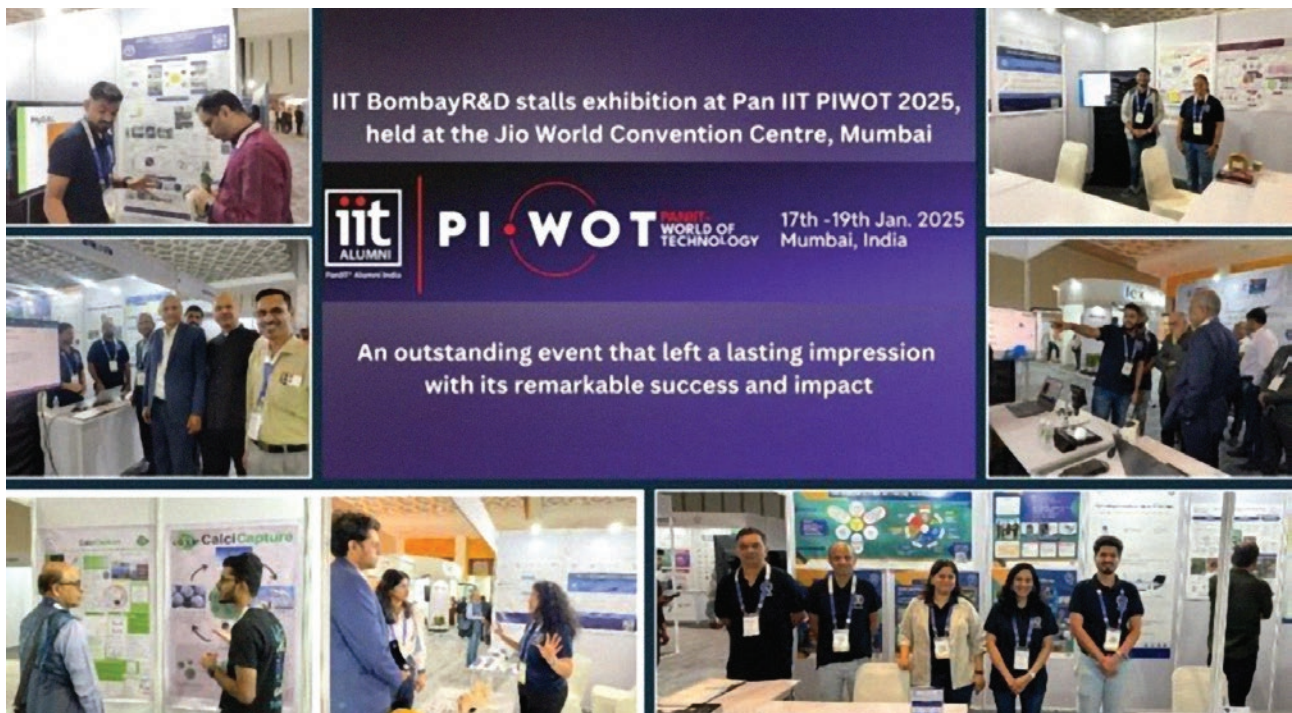


PIWOT 2025: PANIIT WORLD OF TECHNOLOGY GLOBAL SUMMIT 2025:

IIT Bombay actively participated in the PanIIT World of Technology (PIWOT) Global Summit 2025, organised by PanIIT Alumni India. The event was held during 17th-19th January, 2025 at the Jio World Convention Centre, Mumbai. Under the theme 'Technology at Work', the summit focused on the transformative impact of technology across various sectors, with discussions on emerging trends in defence, climate change, agriculture, and sustainability. Keynote addresses were delivered by eminent figures such as Shri Dharmendra Pradhan, Minister of Education; Shri Jitendra Singh, Minister of Science and Technology and Shri Ashwini Vaishnaw, Minister of Railways.

A key highlight of PIWOT 2025 was the TechExpo, which showcased groundbreaking innovations

across multiple industries, with over 100 exhibition booths presenting cutting-edge advancements in healthcare, robotics, and social impact technologies. IIT Bombay's exhibition featured posters providing insights into the Institute's R&D activities, industry collaborations, technology transfers, and licensing of IIT Bombay's intellectual property. Additionally, several posters highlighted key technologies developed at the Institute. Videos showcasing various departments, research centers and technological innovations of IIT Bombay were also on display. To facilitate information dissemination, publications such as R&D Highlights, IITB Technologies, R&D Newsletter and popular science articles on IIT Bombay research were made available to visitors. The IIT Bombay stall received an enthusiastic response, drawing significant interest from attendees.



R&D PUBLICATIONS

The technology booklet titled 'IBIS: Indian Institute of Technology Bombay's Ideas and Innovations for Society', a compendium of about 100 technologies spanning from defense to healthcare, robotics to environment and sustainability, communication to clean energy etc. developed at the Institute in recent years, was reprinted. The brochure titled 'R&D Highlights' reporting some of the outcomes of R&D efforts undertaken at the Institute, interactions with the industry and the possible modes of collaboration was updated.

Both these publications were distributed in forums like TechConnect 2024, IInvenTiv 2025, PIWOT 2025, etc., to Industry partners to disseminate information on the Institute's R&D activities and industry interactions.

Nobel Award Lectures 2024

Lectures by domain experts on the work of winners of the Nobel Prizes 2024 were organised on 22nd January, 2025 and 5th February, 2025 in VMCC. The faculty speakers from IIT Bombay were Prof. Siddhartha Santra (Department of Physics), Prof. Sreelaja Nair (Department of Biosciences and Bioengineering), Prof. Raghavan B Sunoj (Department of Chemistry), Prof. Aditi Chaubal (Department of Economics) while Dr. Dhurjjati Sharma, Department of Modern Indian Languages and Literary Studies, Gauhati University was the external speaker.



CENTRE FOR SOPHISTICATED INSTRUMENTS AND FACILITIES (CSIF)

IIT Bombay's Board of Governors (BoG) approved a new centre 'Centre for Sophisticated Instruments and Facilities (CSIF)' in August 2024 as an umbrella centre for managing all high-end equipment at the institute. CSIF manages 154 instrumentation facilities including 40 existing facilities and 114 new facilities with funding support from Institution of Eminence (IoE). In addition, CSIF comprises computational resources worth more than 100 crores which includes data storage and high-speed-computation facilities. All facilities are available

to all the Institute researchers as well as across the nation through the Government of India's ISTEM portal. The cost of these instrumentation facilities, which are accessible at ISTEM portal, is around INR 450 crores.

Some of the high-end facilities which are available at this Center are state-of-art electron microscopes, variety of spectrometers with variable attachments, nano-/ micro-/ macro-fabrication tools, material-/ bio- characterization facilities.



CSIF organized a workshop entitled 'Applications of Advanced Analytical Techniques in Research & Industry (AATRI)' on 18th-19th February, 2025. The workshop focused on the applications of sophisticated analytical equipment and aimed to introduce participants to the latest advancements in instrumentation technology and their practical applications in various industries. The event was designed to explore the integration of these technologies into real-world scenarios and enhance participants' understanding of their operational and strategic benefits. This workshop involved a representation from both IIT Bombay and external institutions with a total of 255 participants.



Vice-Chancellor, ICT Mumbai at AATRI workshop



COO ISTEM and Head, CSIF at AATRI workshop

FOCUSED INITIATIVES ON ETHICS AND SAFETY

Institute Ethics Committee (IEC): During 2024-25, the Institute Ethics Committee received 34 new proposals and 31 proposals were approved in expedited, full board or exempt mode depending on the nature of the proposals.

Institutional Review Board (IRB): The Institutional Review Board (IRB), received 79 new proposals in the FY 2024-25 from various academic units of which 58 proposals were approved and five were recommended to the Principal Investigator (PI) for submission to IEC.

ONLINE PROCESSES

The software team continued its efforts to make online interface for R&D activities (in the

Drone and IRCC websites) more user-friendly. A few activities automated this year are as follows:

- An online module for Central Facility was developed for automatically creating the entire process once the minimal details are entered in the Drona system by authorisation given to staff. An interface was provided to create a new central facility or modify an existing facility on Drona
- The Institute Review Board Proposal Form and Informed Consent Form were automated

- A new co-founding module is developed on Drona with full online approval chain
- A new module for managing the dashboard reports was developed on Drona
- New developments are done on Drona to generate the SAP mass uploading format for the external vendor payments, internship payments and central facility requests
- Add-on in the already developed modules:
- The seed grant proposal changed to incorporate revised seed grant 2024 norms
- Implemented a new pay structure for project staff in various recruitments in Drona
- Facility developed in the Drona system for providing an operator interface for delegated staff like project staff, institute staff or students assigned to central facilities
- Drona DTS (Document Tracking System) extended to the cash section, easily accessing the details to send to the cash section and tracking the data

Project Manpower

Number of Project staff/ fellow working in various projects as on March 31, 2025 is 1189.

EDUCATIONAL OUTREACH



The Educational Outreach (EO) Office is an umbrella body comprising of erstwhile Continuing Education and Quality Improvement Programme (CE&QIP) along with the Pramod Chaudhari Alumni Continuing Education Centre (PCACEC), Centre for Distance Engineering Education Programme (CDEEP) and National Programme on Technology Enhanced Learning (NPTEL)/ SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds).

Many of our outreach courses for the industry, government and PSUs are now well established and continue to attract larger participation, both from within India and from abroad.

The popular courses include topics from AI/ ML, Design Thinking, Data Analytics, Renewable Energy, Green Hydrogen, Cyber Security etc. The EO Office successfully conducted the first International Immersion Programme for students from Universidad Camilo José Cela (UCJC), Spain, marking a key milestone in the Institute's global academic engagement. Additionally, TechTrends, a dedicated School Outreach Programme, was initiated to engage with school students and introduce them to future-ready skills and scientific thinking through a series of interactive modules and expert-led sessions.

A total of 89 CEP courses were conducted with approximately 2750 participants from industries, organizations and institutions, with a revenue of about Rs. 9.91 crore. The number of students has doubled year-on-year and revenue has increased by approximately 30%.

Educational Outreach Office also launched e-Post Graduate Diploma (e-PGD) programmes in key emerging domains such as Artificial Intelligence and Data Science (AI-DS), e-Mobility, Interaction Design and Computer Science and Engineering (CSE) to name a few. These programmes are being delivered in collaboration with our existing EdTech Service Providers (ETSPs), expanding our digital outreach and enabling students/ professionals to upskill through flexible, high-impact learning pathways with more courses to be launched.

Under the QIP category, two PhD students from AICTE-approved engineering colleges were admitted in 2024. In addition, nine college teachers have been inducted into the PhD programme under the advance admission scheme. They will join the Institute for the regular programme from July 2025.

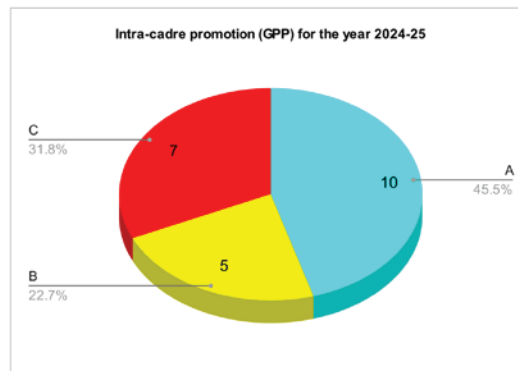
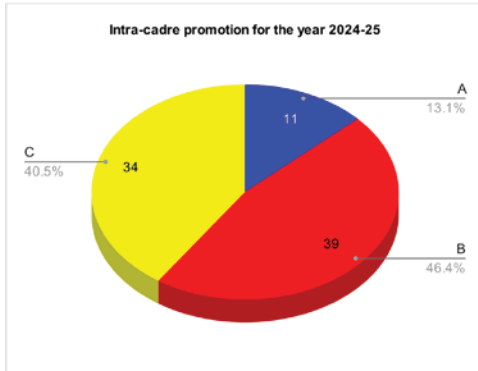
In 2024, the Pramod Chaudhari Alumni Continuing Education Centre (PCACEC) at IIT Bombay offered a range of curated courses for alumni, including *Sustainable Finance*, *Introduction to Behavioural Economics*, *Corporate Entrepreneurship*, *Financial Analytics and Data Visualization*. Several operational improvements and policy updates were also introduced to enhance alumni engagement. A survey was conducted, reaching over 40,000 alumni, to identify key areas of interest, which is now guiding the development of future course offerings. In 2025, PCACEC began with *Statistics for Decision Making* followed by *The Art of Storytelling Through Movies* and upcoming courses include *Energy Auditing*, an advanced module on AI/ ML and other high-demand topics aligned with alumni learning interests.

The Centre for Distance Engineering Education Programme (CDEEP) continued its functioning as a support unit for various outreach activities of the Institute. During the year 2024-25, CDEEP recorded 16 courses, covering nine disciplines at IIT Bombay. The last academic year saw 3500 enrollments in 407 active CDEEP courses. Additionally, CDEEP recorded and live-streamed important Institute events such as IIT Bombay Commencement-2024, Interim session of the 63rd Convocation and Foundation Day, watched by more than 20,079 viewers. The Centre also covered many events such as Institute Colloquia, talks by distinguished speakers, an orientation programme for the Freshers, Matribhasha Diwas, Alumni Day and Republic Day, among others with a viewership of around 1,05,350.

The NPTEL/ SWAYAM programme at IIT Bombay offered a total of 134 courses in the last two semesters (July 2024 and January 2025). These courses saw total enrollments and registrations of 1,78,109 and 54,304 learners through the SWAYAM platform.

ADMINISTRATIVE AFFAIRS

The Office of the Dean (Administrative Affairs) is responsible for managing the Institute’s non-faculty and non-project human resources, including permanent, temporary, and outsourced staff. The office oversees key administrative processes and services, and plays a central role in formulating policies related to the Institute’s administrative structure. This includes evaluating staffing needs across various levels, defining roles, responsibilities, and authority hierarchies, as well as developing job profiles, recruitment policies, and frameworks for career progression and promotions. It also ensures the optimal allocation and sanctioning of manpower resources to different departments and units.



Following is the summarised report on promotions for the year 2024-25

Intra-cadre promotion for the year 2024-25								
Name of the Post	No. of Promotion made	No. of promotions to be made	Group	Total	Total (promotions to be made)			
Joint Registrar*	-	1	A	-	11			
Sr. Technical Officer (Scale-B)*	-	3						
Sr. Sports Officer (Scale- B)*	-	1						
Chief Library Officer (Scale-B) *	-	1						
Sr. Assistant Registrar *	-	3						
Nursing Superintendent (Scale-III) *	-	1						
Chief Security Officer (Scale-II) *	-	1						
Asst. Technical Officer	6	-	B	39	-			
Asst. Administrative Officer	1	-						
Sr. Technical Superintendent	13	-						
Sr Administrative Superintendent	15	-						
Sr. Lib. Information Supdt	3	-						
Staff Nurse	1	-						
Administrative Associate	4	-						
Sr. Lab Asstt	1	-	C	34	-			
Mechanic	4	-						
Multiskilled Assistant C	1	-						
Security Gurard C	17	-						
Security Guard B	7	-						
Total	73	11					73	11

Inter-cadre promotion (GPP) for the year 2024-25					
Name of the Post	No. of Promotion made	No. of promotions to be made	Group	Total	Total (promotions to be made)
Jt. Registrar (P) *	-	1	A	-	10
Executive Engineer (P) *	-	1			
Sr. Assistant Registrar (P) *	-	1			
Technical Officer (Scale-II)-A / B (P) *	-	7			
Asst. Administrative Officer (P)	4	-	B	5	-
Administrative Superintendent (P)	1	-			
Administrative Associate (P)	2	-	C	7	-
Sr. Technician (Specific Skills) (P)	1	-			
Jr. Administrative Assistant (P)	4	-			
Total	12	10			

FACULTY ACHIEVEMENTS AND RECOGNITIONS

During the year, 43 faculty members (10 Assistant Professors Grade II, 28 Assistant Professors Grade I, 3 Associate Professors and 2 Professors) joined the Institute. The number of full-time faculty members on the roll of the Institute has risen to 752, comprising 403 Professors, 1 Professor (contract), 186 Associate Professors, 2 Associate Professors (contract), 138 Assistant Professors (Grade-I) and 22 Assistant Professors (Grade-II).

In addition, there are 79 adjunct faculty members and 405 post-doctoral fellows on the roll. Around 10 faculty members retired – 9 of whom were re-employed, 1 voluntarily retired and 3 resigned during the year.

The Institute provided financial assistance to 532 faculty members for participating in international conferences.

Apart from educational and research pursuits, the faculty of the Institute meets national and global obligations in diverse ways. Many of them have accepted membership in various national committees and editors of various journals. They also review manuscripts for publications. The Institute is proud of the recognition of its faculty in the form of many awards and distinctions, some of which are listed below:

National Awards:

Prof. Rohit Srivastava, Department of Biosciences and Bioengineering, has been conferred the Rashtriya Vigyan Puraskar - Vigyan Shri 2024 award, instituted by the Government of India for his outstanding contributions to science and technology in the area of Technology and Innovation



Prof. Vikram Vishal, Department of Earth Sciences, has been awarded the National Geoscience Award 2023 from the Ministry of Mines, New Delhi under Applied Geosciences.



Fellow of Indian National Science Academy (FNA), New Delhi :

Prof. Neela Nataraj, Department of Mathematics, has been elected as a Fellow of the Indian National Science Academy.

INSA Associate Fellows:

Prof. Vikram Vishal, Department of Earth Sciences, has been awarded the INSA Distinguished Lecture Fellowship 2024 award.

Prof. Swatantra Pratap Singh, Environmental Science and Engineering Department, has been elected as INSA Young Associate 2024.

Prof. Preethi Jyothi, Department of Computer Science and Engineering, has been elected as INSA Young Associate 2024.

Prof. Swathy Manohar, Department of Civil Engineering, has been selected for the INSA History of Science Young Associates 2024.

Prof. Dipendra Prasad, Department of Mathematics, has been elected to be part of the council of the Indian National Science Academy.

Fellow of Indian Academy of Sciences (FASc), Bangalore:

Prof. Hetu C. Sheth, Department of Earth Sciences, has been elected as a Fellow of the Indian Academy of Sciences, Bengaluru.

Prof. Devang Khakhar, Department of Chemical Engineering, has been elected as a member of the Council of the Indian Academy of Sciences for the triennium 2025–2027.

Fellow of the National Academy of Sciences, India (FNASc):

Prof. Santanu Banerjee, Department of Earth Sciences, has been elected as a Fellow of the National Academy of Sciences (FNASc), India 2024.

Prof. Ravindra Gudi, Department of Chemical Engineering, has been elected as a Fellow of the National Academy of Sciences (FNASc), India 2024.

Prof. Ashwin Gumaste, Department of Computer Science and Engineering, has been elected as a Fellow of the National Academy of Sciences (FNASc), India 2024.

Prof. Suvarn Kulkarni, Department of Chemistry, has been elected as a Fellow of the National Academy of Sciences (FNASc), India 2024.

Prof. Ranjith Padinhateeri, Department of Biosciences and Bioengineering, has been elected as a Fellow of the National Academy of Sciences (FNASc), India 2024.

Prof. Shamik Sen, Department of Biosciences and Bioengineering, has been elected as a Fellow of the National Academy of Sciences (FNASc), India 2024.

Prof. Neela Nataraj, Department of Mathematics, has been elected to be part of the Council of the National Academy of Sciences India for 2025

Fellow of the Indian National Academy of Engineering (FNAE):

Dr. Sharad Kumar Saraf, Chairman, Board of Governors (BoG), IIT Bombay, has been elected as a Fellow of the Indian National Academy of Engineering (INAE) 2024.

Prof. Amitava De, Department of Mechanical Engineering, has been elected as a Fellow of the Indian National Academy of Engineering (INAE) 2024.

Prof. Pratibha Sharma, Department of Energy Science and Engineering has been elected as a Fellow of the Indian National Academy of Engineering (INAE) 2024.

Prof. Subimal Ghosh, Department of Civil Engineering, has been elected as a Fellow of the Indian National Academy of Engineering (INAE) 2024.

Other Fellowships:

Prof. Chandra Venkataraman, Department of Chemical Engineering; **Prof. Devang Khakhar**, Department of Chemical Engineering and **Prof. Subhasis Chaudhuri**, Department of Electrical Engineering have been elected as a Fellow of The World Academy of Sciences (TWAS).

Prof. Gulab Singh, Centre of Studies in Resources Engineering, has been elected as a Fellow of the Indian Society of Geomatics (ISG).

Prof. Parthe Pandit, Centre for Machine Intelligence and Data Science, has been awarded the Early Career Fellowship from Schmidt Sciences.

Prof. Sandeep Anand, Department of Electrical Engineering, has been awarded the Young Faculty Research Fellowship under the Visvesvaraya PhD Scheme for Electronics & IT.

Prof. Sudarshan Kumar, Department of Aerospace Engineering, has been selected for the conferment of the ISTE Honorary Fellowship for the year 2024.

Editorial Boards:

Prof. Subrato Banerjee, Department of Economics, has joined as the Editorial Board member of Nature - Humanities & Social Sciences Communications.

Prof. Kamendra P Sharma, Department of Chemistry, has been invited to join as an Associate Editor for the Frontiers in Soft Matter.

Prof. Yogendra Shastri, Department of Chemical Engineering, has joined as an Associate Editor of the ACS Sustainable Chemistry and Engineering Journal.

Prof. Soumyajit Mukherjee, Department of Earth Sciences, has joined as the Editorial Board member of the Geological Society of London (Society Book Editor).

Prof. Supreet Saini, Department of Chemical Engineering, has been invited to join the Editorial Board of Microbial Genomics Journal.

Prof. Gopal Dixit, Department of Physics, has been invited to join the Editorial Board of the Journal of Physics B from the Institute of Physics, United Kingdom.

Prof. Indrajit Mukherjee, Shailesh J. Mehta School of Management, has been invited to join the Editorial Board of the International Journal of Experimental Design & Process Optimisation



Prof. Pennan Chinnasamy, Centre for Technology Alternatives for Rural Areas, has been invited to join the Editorial Board of Induction Journal Discover Water by Springer.

Prof. Suvarn Kulkarni, Department of Chemistry, has been inducted into the Editorial Advisory Board of the Journal Organic Letters.

Prof. Gulab Singh, Centre of Studies in Resources Engineering, has joined the Editorial Board of Scientific Reports of Nature Publishing Group.

Prof. Gopalan Rajaraman, Department of Chemistry, has joined the Editorial Advisory Board of the European Journal of Inorganic Chemistry.

Prof. Neeta Kanekar, Department of Biosciences and Bioengineering, has joined the Editorial Board of the Cambridge University Press (CUP) journal Wearable Technologies as an Associate Editor.

Prof. Dinesh Kabra, Department of Physics, has been appointed as a Governing Council member of NISE by the Ministry of New and Renewable Energy. He has also joined the Editorial Advisory Board in ACS Applied Materials & Interfaces.

Prof. Anshuman Kumar, Department of Physics, has joined the Editorial Advisory Board of ACS Photonics.

Prof. Soumyajit Mukherjee, Department of Earth Sciences, has been appointed as an Editorial Board member of the PTRSA Journal (Philosophical Transactions of the Royal Society A" (Mathematical, Physical and Engineering Sciences) of the Royal Society of London in the Earth Sciences division.

Prof. Supreet Saini, Department of Chemical Engineering, has been selected as the Associate Editor of the Journal of Evolutionary Biology.

Prof. Sumit Saxena, Department of Metallurgical Engineering and Materials Science, has joined as an Advisory Board member with Chemical Physics Impact (Elsevier).

Prof. Dinesh Kabra, Department of Physics, has been appointed as Topic Editor for optoelectronics and Energy Devices in ACS Energy Letters.

Prof. Sai Vinjanamathy, Department of Physics, has joined the Editorial Advisory Board of Applied Physics Letters-Quantum.

Prof. Sudipta Dasgupta, Department of Earth Sciences, has joined the Editorial Committee and Editorial Advisory Board of the Journal of Palaeogeography of Elsevier.

Prof. G.V. Sreekumar, IDC School of Design, has joined the Editorial Board of IDR Journal, housed at the Department of Integrated Design, Faculty of Architecture, University of Moratuwa, Sri Lanka.

Prof. Mithun Chowdhury, Department of Metallurgical Engineering and Materials Science, has joined the Editorial Board of Communications Physics (Nature Portfolio).

Prof. Archana Pai, Department of Physics, has joined the Executive Editorial Board of Classical and Quantum Gravity.

Prof. Shamik Sen, Department of Biosciences and Bioengineering, has joined as Associate Editor for the journal Molecular Biology of the Cell (MBoC), a journal of the American Society for Cell Biology.

Other Recognitions:

Prof. Milind Atrey, Department of Mechanical Engineering, has been elected as a Member of The International Academy of Refrigeration (IAR).

Prof. Chandra Venkataraman, Department of Chemical Engineering, has been selected for the Distinguished Alumni Award 2024 of IIT Delhi in the area of climate science.

Prof. Sakthi Saravanan Chinnasamy, Department of Earth Sciences, has been awarded this year's Master Tanay Chadha Memorial Geologist Award 2023-24 from the Mining Engineers Association of India.

Prof. Rahul Sapkal, Ashank Desai Centre for Policy Studies, has been awarded the Best Paper and Rudra Dutta Young Labour Economist Award for conducting innovative studies in the areas of labour economics/ studies at the 64th Indian Society of Labour Economist Annual Conference.

Prof. Souvik Mahapatra, Department of Electrical Engineering, has developed a "Mahapatra Model" in collaboration with the R&D team of Synopsis, a leading Electronic Design Automation (EDA) company, and cited as the IIT Bombay reliability model in their S-Device User Guide and other official materials.

Prof. Kasturi Saha, Department of Electrical Engineering, has been awarded the APL-sponsored Young Applied Physicist Award-National Physicists' Conclave 2024.

Late Prof. Pushpak Bhattacharyya, Department of Computer Science and Engineering, was appointed as the Chairman of the National Committee on "Indian Language Standards" by the Ministry of Electronics and IT to examine the encoding, font, search performance and language technology applications for all 23 official languages of the country.

Prof. Rajiv O. Dusane and **Prof. Amartya Mukhopadhyay** from the Department of Metallurgical Engineering and Materials Science, along with their team, have been awarded the 'BPCL Innovation Award'.

(Retd.) Prof. Sanjeev Sabnis, Department of Mathematics, has been awarded the Lifetime Service Award from the International Indian Statistical Association (IISA).

Prof. Rajesh Zele, Department of Electrical Engineering and his PhD students Shubham Jain and Sumit Khalapure, have been awarded the 'Best Paper Award' at the IEEE conference LASCAS 2024.

Prof. S. Shankaranarayanan, Department of Physics and his PhD student Mahesh Chandran have received the honourable mention for their essay in the 75th edition of Gravity Research Foundation's essay competition.

Prof. Krishnan Sivasubramanian, Department of Mathematics, was appointed as the team leader of the International Mathematics Olympiad (IMO) 2024, where India finished 4th only behind the US, China and Korea, with four gold medals and one silver medal. This has been the best-ever performance at the IMO since India's debut in 1989.

Prof. Manoranjan Sahu, Department of Environmental Science and Engineering, has been selected to receive The Mark S. Wrighton Award for McDonnell Academy Alumni at Washington University in St. Louis.

Prof. Gopal Dixit, Department of Physics, had been induced in the CLEO Fundamental Science Committee. CLEO is one of the largest bodies representing light and its applications in science and technology.

Prof. Sandip Saha, Department of Mechanical Engineering and Prof. C. Subramaniam, Department of Chemistry, along with their research team, have been awarded the "Nan Pao Resin Zero Carbon Award", at the International Net Zero Tech Competition-2024, organized by the National Taiwan University (NTU) and TECO Technology Foundation in Taiwan.

Prof. Chandra M.R. Volla and **Prof. Nandita Madhavan** from the Department of Chemistry, have received the CRSI Bronze Medal from the Chemical Research Society of India for their outstanding contributions in Chemical Sciences.

Prof. Abhijit Chatterjee, Department of Chemical Engineering and his research team have been awarded the inaugural Professor R. Kumar Award of Chemical Engineering Department, IISc Bengaluru.

Prof. Pennan Chinnasamy, Centre for Technology Alternatives for Rural Areas, has been awarded the Geospatial Excellence Award, for promoting open source GIS in rural regions and for promoting open source software, by The Sher e Kashmir University of Agricultural Sciences and Technology of Kashmir (Gov. of Kashmir).

Prof. Aparna Singh, Department of Metallurgical Engineering and Materials Science, has been selected to receive the Young Alumnus Award from IIT Kanpur.

Prof. Manjesh K. Hanawal, Department of Industrial Engineering and Operations Research and his team have won the first prize at the ITU WTSA-24 AI Bharath 5G/ 6G Sandbox Hackathon. This challenge was organized by the International Telecommunication Union (ITU) along with the Department of Telecom (DoT).

Prof. Ganesh Ramakrishnan and **late Prof. Pushpak Bhattacharyya** from the Department of Computer Science and Engineering, have been listed in the AIM 100: Top 100 Most Influential Global Leaders in the AI domain.

Prof. Rajakishore Nath, Department of Humanities and Social Sciences, has received the 'Best Presenter Award' for his research paper on "*Understanding 'Author' or 'Authorless' Literatures Through the Lens of Artificial Intelligence*," at Bandung International Conference for Cultural Studies 2024 organized by

The Faculty of Art and Design, Institute of Technology Bandung, Indonesia, 16-17 October 2024.

Prof. Subhasis Chaudhuri, Department of Electrical Engineering, has been appointed as the Chairman on the board of Bombay Stock Exchange (BSE) Ltd, by the Securities and Exchange Board of India (SEBI).

Prof. Maryam Shojaei Baghini, Department of Electrical Engineering and her team have won the first place winner award in EMC-COMPO-2024, Italy.

Prof. Amartya Mukhopadhyay, Department of Metallurgical Engineering and Materials Science, has won the Tata Transformation Prize 2024, in sustainability, by Tata Sons and The New York Academy of Sciences.

Prof. E Chandrasekhar, Department of Earth Sciences, has been appointed as Chair of the Student Affairs Committee (SAC) by the Council of the International Association of Mathematical Geosciences (IAMG).

Prof. Smrutiranjana Parida, Department of Metallurgical Engineering and Materials Science, has been awarded the Corrosion Awareness Award for Excellence in Corrosion Science & Technology in Research & Education for 2024 from NACE International India Chapter.

Prof. Parag Bhargava, Department of Metallurgical Engineering and Materials Science, has been awarded the D N Agarwal award from the Indian Ceramic Society for his lifetime contributions in the field of Glass & Ceramics Science & Technology.

Prof. Dipti Gupta, Department of Metallurgical Engineering and Materials Science, established start-up Dimira Technologies, is recognized and selected for facilitating technological development for the National Quantum Mission.

Prof. Deepankar Choudhury, Department of Civil Engineering and his team have been awarded the IGS-Shri A.G. Dastidar Biennial Prize for the Best Paper on “Ground Improvement” and the IGS-Guwahati Chapter YGE Award for the Best Paper on “Soil Dynamics and Earthquake Engineering”.

Prof. B.V.S. Viswanadham, Department of Civil Engineering and his team have been awarded the IGS-FERROCO YGE Award for the Best Paper on Dam Engineering and Allied Areas”.

Prof. N. Hemachandra, Department of Industrial Engineering and Operations Research, has been

awarded the Google India Research Award 2024, jointly awarded with Prof. Shweta Jain from IIT Ropar.

Prof. Vikram M. Gadre, Department of Electrical Engineering, has been awarded the Lifetime Achievement Award in the International Conference CVIP 2024 (Computer Vision and Image Processing 2024), conducted at IIIT Kancheepuram in December 2024.

Prof. Nand Kishore, Department of Chemistry, has been awarded the Netzsch-ITAS Award for outstanding contributions in the field of thermal analysis by the Indian Thermal Analysis Society (ITAS).

Prof. Parinda Vasa, Department of Physics, has been appointed as a Secretary of IUPAP Commission C17 on Laser Physics and Photonics for the period 2025-2027.

Prof. Ruchi Anand, Department of Chemistry, has been awarded the Acharya J C Ghosh Memorial Award from the Indian Chemical Society during the Centennial Jubilee Year.

Prof. Syaamantak Das, Centre for Educational Technology, received the Global MOOCs Alliance Award for AI Special Recognition for his course titled “*Introduction to No-Code Artificial Intelligence*”, offered as part of the Asian Universities Alliance (AUA) Overseas Study Program.

Prof. Virendra Sethi, Department of Environmental Science and Engineering, has been awarded the ‘Air Quality Management Lifetime Achievement Award 2024’ by the Air Quality Management Association.

Prof. Subhasis Chaudhuri, Department of Electrical Engineering, has been awarded the ECE Distinguished Alumni Award (Applied Math) by faculty and the ECE Alumni Advisory Board (UC San Diego).

Late Prof. Pushpak Bhattacharyya, Department of Computer Science and Engineering, was selected to receive the Sony Research Award 2024.

Prof. Deepankar Choudhury, Department of Civil Engineering, was the Convener of the team appointed by the Bureau of Indian Standard (BIS), New Delhi, that was responsible for publishing the Indian Standard code IS: 19117 (2025) on “Design and Construction of Combined Piled-Raft Foundations – Code of Practice”.

STUDENT ACTIVITIES

Sports Council

57th Inter-IIT Sports Meet 2024



IIT Bombay emerged as the Overall Champion of the 57th Inter-IIT Sports Meet, co-hosted by IIT Kanpur and IIT Indore, reclaiming the General Championship a seven-year hiatus. With 5 golds and 5 silvers, we secured 2nd place in the Women's and 3rd in the Men's Championship. This result reflects the months of rigorous training, teamwork and preparation of the contingent.

Key contributors to IIT Bombay's sporting community were honored during a felicitation ceremony, which included a contingent photoshoot followed by a gala dinner, where they were presented with the Institute gymkhana awards.

Freshman Orientation 2024



The undergraduate (UG) Freshman Orientation saw over 900 attendees at the Indoor Badminton Courts. Sports Secretaries and Club Managers introduced incoming students to IIT Bombay's diverse sports and adventure culture through presentations, games and interactive trivia, building strong interest among the freshers and reflecting the massive increase in freshman participation in sports.

100 Days to Go for Inter-IIT Sports Meet



As part of the 100 Days to Go for Inter-IIT celebrations, the entire Bombay Blackcats contingent embarked on an exciting trek to the Andharban Jungle. This initiative received an overwhelming response and played a significant role in strengthening the bond among the contingent members. The trek not only provided an opportunity for adventure but also fostered camaraderie, teamwork and a sense of unity as we geared up for the upcoming Inter-IIT.

Sports General Championship 2023-24



IIT Bombay Sports General Championship (GC) witnessed the spirit of athleticism once again during its 2024-25 season. The GC began with a grand march-in ceremony where hostels, led by their Sports Councillors, proudly carried their flags. The event honoured last year's champions and built excitement for the matches to come, receiving over 400 participants. With high energy and fierce competition across the courts, tracks and fields, hostels gave it their all in pursuit of sporting glory.

The Inter-Hostel GC Boys' category was won by Hostel 2 ,while Hostel 15B took the top spot in the Girls' category.

Aavhan 2024



Aavhan 2024 hosted over 6,000 athletes from 150+ colleges during 9th-11th May, 2024. With participation in over 15 sports, along with a Half Marathon held in October 2023 that saw over 4,000 participants, Aavhan reinforced IIT Bombay's role as a hub of national-level collegiate sports. Additionally, the Aavhan Half Marathon in October 2024 drew over 3,000 participants, further fuelling the drive for fitness and endurance.

Femme Fiesta



In celebration of International Women's Day, 'Femme Fiesta' was a week-long event featuring beginner-level workshops across multiple sports. It offered a platform for women to explore new activities and enhance their skills. To cap off the event, a girls-only trek to Rajgad, organized in collaboration with the Adventure Club, offered an adventurous and empowering experience for participants. In addition, Quincena Fitness workshop, included MMA (mixed martial arts), Calisthenics and Pilates to enhance strength, endurance and overall well-being.

Other Events and Initiatives

Spoofit wrapped up the year with a blend of fun and competition, featuring 2v2 games such as Chess, Foosball, Footvolley and Hand and Brain Chess, serving as a joyful send-off for undergraduate students after the end of their semesters. On 29th August, 2024— the National Sports Day, a free full-body scan was conducted for members of the Institute, with over 400 people in attendance. Throughout the year, several Zumba, Pilates, Calisthenics and self-defense workshops were conducted in collaboration with the Fitness Club of IIT Bombay to promote Institute's vision of a healthier campus.

Abhyuday

Abhyuday, IIT Bombay's social body, held the 12th edition of its annual social festival, "Advitya", during 11th-12th January, 2025, on the theme "A Prism of Possibilities".

The 'Visionary Voices' speaker session brought together change-makers from various sectors, including **Dr. Dharav Shah** (Psychiatrist, MBBS, DPM, MD Psychiatry), Mr. Vivek Atray (ex-IAS officer and motivational speaker) and Lt. Cdr. Yogaraj Singh Negi ((Retd.), Indian Navy). The networking arena saw 15+ CSR heads and 30+ NGOs collaborating on social solutions. The various campaigns held during the Fest provided health check-ups to over 1,500 individuals, counseling to more than 1,000 students and the distribution of over 2,300 sandwiches through the Kitchen Drive and Powai Lake cleanup in partnership with Public Health Office workers of the Institute. Another highlight of the festival was a range of competitions, including Action Plan (social venture pitching), Socio-X (case-solving for societal issues) and OASIS (Olympiad on sustainability and innovation). The event organized impact-oriented campaign initiatives as follows with each delivering tangible societal benefits.

1. Food security and Hunger:

- **The Robin Hood Army Drive:** Led 8 surplus food redistribution events that fed 1,000+ people and averted ~250 kg food waste
- **Community Kitchen:** More than 2,300 sandwiches were prepared and distributed in slums by IIT Bombay students

2. Career and Education:

- **Career Counselling Campaign (CCC):** Provided counseling to over 2,000 students across more than 40 BMC schools on academics, career and motivation
- **Educational Kits Drive:** Distributed 500+ educational kits (stationery and books) in Mahalaxmi BMC school, helping to reduce dropout rates and improving learning engagement



3. Health and Hygiene:

- **Blood Donation Drives:** Collected over 600 units collected across two drives potentially saving 2,100+ lives
- **Health & Hygiene Campaign:** Distributed 300+ hygiene kits, reaching about 500+ slum residents and facilitating 200+ early disease detection
- **Menstrual Hygiene Campaign:** Conducted in 50+ slums, benefiting 2,500+ girls
- **Anaemia Awareness:** Integrated with blood drives focusing on iron deficiency and nutrition education

4. Mental Health Support:

- **Mental Health Campaign (Online):** Featured two expert podcasts focusing on stress management and emotional resilience

- **Awareness Sessions (with UNICEF):** Addressed issues related to anxiety and student burnout, encouraging peer support and open dialogue

5. Environmental Sustainability:



- **Green Earth Campaign:** Planted 250+ saplings, estimated to offset 5 tonnes of CO₂ annually
- **Powai Lake Cleanup:** Removed over 100 kg of plastic in two cleanup drives
- **Beach Cleanups (Versova and Danapani):** 500+ volunteers cleared ~2 tons of waste, helping restore marine and coastal ecosystem health

Events And Initiatives

1. Satyamev Jayate: A mid-year flagship event celebrating resilience and ethical leadership saw speakers Lt. Cdr. Bijay Nair, Raju Narayana Swamy and Chinu Kwatra, among others inspire 500+ attendees, through their powerful narratives of truth, courage and reform.

2. Profectus – Social Internship Program: Placed over 200 IIT Bombay students in diverse roles across 100+ NGOs in various sectors including education, public health and environment. The initiative contributed over a thousand working hours to significant grassroots impact.

3. Other Events:

- DIY workshop focused on hands-on sustainable product creation from waste

- Yoga Day: Attracted over 300 attendees for guided yoga and meditation sessions
- Social Responsibility Session: Emphasized youth-led change, conducted in collaboration with Dean (Alumni and Corporate Relations)
- Impact Innovators' Summit: Hosted over 50 change-makers to discuss scalable innovations
- Sandesh to Soldiers: Sent 1,000+ heartfelt messages from student to Indian armed forces

Technical Council

CLUBS

Aeromodelling Club:

The Aeromodelling Club hosted the RC 3D Airshow and UAV Expo featuring expert drone pilots and a manned drone demonstration by Prof. K.P. Karunakaran. Their Aerial Robotics TSS course delved into MATLAB-based PID control and quadcopter dynamics. Events like the Helicopter workshop and Drone Zone Bootcamp engaged with hundreds of participants, while the RC Plane competition saw 80+ teams from design to flight. Innovative additions like the Drone GC and PG Flying Week expanded participation across demographics. The Ascent Rocketry workshop introduced OpenRocket simulations, while outreach like the Rubber-Powered Glider workshop brought aeromodelling to school students. The Club participated in various national competitions, including Techfest's Aeromodelling and Flipkart GRiD 6.0, showcasing interdisciplinary applications. The Club maintained vibrant engagement via social media and consistent convener training.

BioX Club:

The BioX Club prioritized interdisciplinary science through Technical Summer School (TSS) courses, such as proteomics and immunology & vaccinology, with over 90 participants enrolled in both. The Club organized events including Arcano (a biology-themed crypt hunt), the Crime Scene Investigation (which combined hands-on forensics with genomics), the BioX GC (a biology-based buzzer quiz) and a high-profile seminar on artificial intelligence (AI) in healthcare featuring PhD speakers. Outreach initiatives featured INYAS (Indian Young Academy of Sciences) sessions for school students focused on blood group testing and microbiology as well as a visit

to the bioprinting lab at IIT Bombay to enhance real-world exposure. The Club's active presence through speaker events and collaborations highlighted real-world biological relevance and public engagement.

Chemistry Club and ChemE Tinkerers' Lab (TL):

The Chemistry Club and ChemE TL conducted Heisenberg (the quiz event), Reactorious 2.0 (launched projects like ChemE Car and AquaPure), the AzeoRover 2025 competition, in collaboration with Azeotropy and industry visits to Alkyl Amines and Ion Chemicals, among others. Outreach events included ICT ChemE workshop, student science demos, TSS courses on Astrochemistry and Chemical Industry, the ChemOptiSim GC (promoting process optimization using DWSIM) and the regular promotion of chemical science through the Club's social media channels.

Energy Club:

The Energy Club ran TSS courses on Smart Grids, Circular Economy and Carbon Capture. Expert events like Coal Conversations with Anil Swarup and ISA Director Ajay Mathur provided valuable policy perspectives. The Club's podcasts, "No Planet B", explored entrepreneurship and clean energy careers. Flagship events like the Energy GC and Renewathon saw participants build real-world carbon capture and solar efficiency solutions. Visits to Suzlon Wind Farm and SolarButterfly showcased operational green tech. Activities like the EnROADS simulation and Climate Caricature series drove awareness. Outreach to 200 school students during GnaanU and partnerships with other IITs expanded the Club's influence.

Electronics and Robotics Club (ERC):

The ERC conducted XLR8, Control Theory Bootcamp, Code the Pixels, Hello Robot Hardware hacking, Jhatka GC and Microcon. The major projects included DOGGO (quadruped), BOB (SLAM + manipulation), Micromouse and a Camera Gimbal. Events like ROS: DOCKED and fROSty (ROS-Gazebo based) gave simulation training. The Club conducted an outreach visit to Unbox Robotics in collaboration with GnaanU for underprivileged students. The ERC's team actively shares educational posts on social media, supporting continuous learning.

Krittika - The Astronomy Club:

This year, Krittika featured a stargazing trip to Kutch and a meteor watch at Bhandardara, talks by Prof. Eric Burns, Prof. Sanjit Mitra, Franziska Bruckmann and Pablo Marchant; Learners' Space courses, the National Space Day exhibition and rural outreach with GRA, including school groups. The Krittika Summer Projects hosted 8 advanced research topics with 100+ participants. Events like the astromania quiz, moon photography contest and distance ladder discussion saw huge attendance.

Maths and Physics (MnP) Club:

The MnP Club organized events like "Why Phys?", Sudoku Challenge, technical quizzes, puzzle-solving, journal club-style paper readings, a TSS course on Quantum Mechanics, as well as speaker sessions by the Indian Institute of Science Education and Research (IISER) and Tata Institute of Fundamental Research (TIFR) professors. The Club also collaborated with Krittika and ERC, fostering a cross-disciplinary technical environment with an emphasis on understanding through problem-solving and community-based learning.

Tinkerers' Lab (TL):

Tinkerers' Lab served as the foundational workshop space for nearly all hardware-centric events and clubs. From RC Plane Competition to XLR8, TL facilitated hands-on construction and real-time troubleshooting. It hosted build sessions, fabrication for student projects and encouraged spontaneous tinkering. With upgraded tools and increased access, TL empowered teams across various events such as Jhatka GC and ChemOptiSim GC. It provided a collaborative maker environment and technical mentorship, reinforcing its status as the Institute's core for hardware innovation.

Web and Coding Club (WnCC):

The Web and Coding Club (WnCC) conducted Seasons of Code, foundational TSS courses, DSA bootcamp, multiple hackathons (Blockchain, JavaScript) and CodeWars. Other initiatives like Hello FOSS, StreamInk Blogathon, expert "Ask Me Anything" (AMAs) sessions with NPCI and Pathway, regular CP calendars, internship prep sessions and freshers' orientations fostered community engagement and skill-building across all experience levels. These activities solidified WnCC's role as a hub for tech culture and mentorship at IIT Bombay.

Institute Technical Summer Projects (ITSP):

The ITSP 2024 program featured mentorship sessions led by over 50 experts, including Drone Sizing by the Aeromodelling Club and Mechatronics & IoT by ERC. Brainstorming and briefing sessions enhanced collaboration and clarity, while Review Meets ensured steady progress. The ITSP Expo, featuring over 25 demos, attracted more than 500 visitors. Additional initiatives included the Tech Teams Orientation, an alumni mentorship drive, a formalized ITC Charter, partnerships with Autodesk, a GC revamp and a first-ever institute-wide technical inventory audit—each reinforcing the Institute Technical Council's commitment to sustainable and inclusive tech growth.

Inter IIT Tech Meet 13.0:

Hosted at the Institute during 11th-14th December, 2024, IIT Bombay secured an Overall Silver with 3 Golds, 2 Silvers and 1 Bronze, delivering an outstanding performance at Inter IIT Tech Meet 13.0. The event featured several competitions with 14 industry-driven problem statements from organizations such as ISRO, Adobe, and Dream11, covering areas like AI, space technology, fintech, and sustainability. The Meet also included the first-ever Pan IIT Tech & RnD Expo, promoting collaboration and knowledge exchange across all 23 IITs.

Techfest 2024

IIT Bombay's Techfest, the largest science and technology festival in Asia, held its 28th edition during 17th-19th December, 2024 on the theme 'A Sustainnovative Sentience'. The event attracted a footfall of over 1,80,000.

In collaboration with the Rotaract Club of Bombay, Hanging Garden, Techfest conducted workshops and sessions in various colleges by top legal experts. These sessions focused on legal procedures and fundamental rights of citizens, through its social initiative 'Legal Literacy Education'.

Techfest also conducted zonal competitions across seven cities in India, including its inaugural competitions in Hyderabad and Chandigarh, marking a significant milestone in the festival's pan-India outreach. Additionally, international zonal competitions were organized in five countries as part of TechFest's global outreach.

During the three-day event, the team organized a series of lectures featuring distinguished personalities such as Mr. Jeet Adani, Director of Adani Airport Holdings; Justice NV Ramana, former Chief Justice of India; Mr. Arokiaswamy Velumani, Founder of Thyrocare; Jay Kotak, Co-Head of Kotak 811 division of Kotak Mahindra Bank; and Dr. Samir V Kamat, Chairman of DRDO.

International Exhibitions showcased the top innovations from countries including the USA, South Korea, the Netherlands and China. A highlight of the event was the introduction of the Unitree G1 Humanoid Robot to India for the first time. Other attractions included a K9 Drill by the NSG, an elite division of the Indian Armed Special Forces and a Weapon and Artillery Expo featuring the Indian Army.

The International Education Fair, conducted in association with the Office of the Dean (International Relations), saw participation from over 15 universities across the globe.

The Techfest World Model United Nations (TWMUN) brought together over 600 delegates representing 15 countries, creating a dynamic platform for diplomacy, meaningful discussions and collaborative problem-solving among young leaders. The International Robowars competition featured participants from Russia, Mexico, Malaysia, Tunisia and Nepal, competing in four weight categories. This event was attended by more than 7,500 people and was hosted by an international emcee from the USA. One of the biggest attractions of the festival was the night shows featuring international artists from Spain, Italy and Taiwan, with a highlight being a live electric concert by DJ Robot from Japan.

Various competitions across multiple domains included the International Drone Racing League, International Full Throttle, Boeing Aeromodelling, Blixathon and more, offering a combined prize pool of over 7 million rupees and attracting more than 37,000 participants.

E-Cell

The Entrepreneurship Cell at IIT Bombay is one of the largest student-run non-profit organization in Asia, promoting entrepreneurship among youth. With a legacy of innovation and outreach, E-Cell IIT Bombay leads the charge in building a strong startup

ecosystem through its flagship initiatives such as Eureka!, E-Summit, National Entrepreneurship Challenge, Eureka! Junior, NEC Junior and the Campus Ambassador Program, along with numerous campus and national outreach programs.

Eureka!

Eureka!, accredited by CNN and Thomson Reuters as Asia's largest business model competition, provides a five-month holistic experience for aspiring entrepreneurs. With over 25,000 entries across seven tracks (Business, Fintech, Healthcare, Social, Pan-IIT, Energy and Logistics), it featured 300+ mentors, 30+ VCs and a prize pool exceeding ₹20 million. Finalists gained exposure through a Demo Day, legal and technical consultancy, cloud credits and even sponsored trips to Princeton and Dubai.

Eureka! GCC, in collaboration with Gulf Islamic Investments (GII), attracted over 600 startups from the GCC region, offering prizes worth \$100,000. One of the Eureka! finalists secured funding worth \$800K through investor support.

E-Summit

The 20th edition of IIT Bombay's flagship entrepreneurship event 'E-Summit 2025', witnessed 50,000+ participants, more than 1,000 startups and over 100 investors engage impactfully during 1st-2nd February, 2025.

Major attractions included:

- **Ten Minute Million (TTMM)** featured live startup pitches, with ₹3.5M raised on the spot.



- **Networking Arena** was a huge success with 300+ participants per session, 60+ mentors and 45+ investors
- **Seed Stars & Incubator Summit** hosted closed-room pitch sessions and incubation accelerators

- **Startup Expo** featured 40+ high-potential startups
- **Internship & Job Fair** successfully placed over 60 students, with an average stipend of ₹10,000
- **i-Hack** had 1,000+ participants solving real-world fintech and cybersecurity challenges
- **Content and Influencer Conclaves** saw discussions with leading creators and journalists on branding and media trends
- **Workshops and Competitions** focused on no-code tools, data analytics, venture capital and startup case challenges

To broaden its impact, **Summit Chapters** were hosted in Delhi, Mumbai, Pune, Bengaluru and Hyderabad, bringing flagship events like Networking Arena and student competitions to regional hubs.



The E-Summit'25 featured notable speakers, including Nandan Nilekani (Co-founder of Infosys), Anupam Mittal (Founder, Shaadi.com and Shark at Shark Tank India), Shantanu Naidu (GM of Tata Motors, Founder of Goodfellows and Motopaws), Ashwini Tewari (MD of SBI), Alok Bansal (Co-founder of Policy Bazaar), Prof. Subhasis Chaudhuri (Former Director of IIT Bombay), Ashima Mittal (IAS Officer), Raj Shamani (Founder of House of X and Figuring Out Media Private Limited) and Bharat Desai (Co-founder of Syntel).



Anupam Mittal and Raj Shamani while addressing the audience

Entrepreneurship and Business (EnB) Club



The Entrepreneurship and Business (EnB) Club is an on-campus community at IIT Bombay that nurtures startup enthusiasm among students. In 2024-25, the Club hosted EnPro bootcamps, the EnB Buzz competition (450+ participants), StartupLab with ITC and the Learner Space course. The Startup Chronicles social media series highlighted IIT Bombay startups, while a trip to Fynd HQ provided a real-world exposure to entrepreneurship.

NEC Junior

NEC Junior is India's first dedicated entrepreneurship cell challenge at the school-level, aimed at empowering students by establishing innovation cells in schools. More than 600 schools participated in the structured tasks and mentorship programmes, with the top 20 teams pitching live at IIT Bombay during E-Summit.

National Entrepreneurship Challenge (NEC)

NEC 2024 supported the creation of a national E-Cell ecosystem by guiding 3,517 basic track teams and 828 advanced track teams, leading to the formation of 450+ new E-Cells in over 1,000 cities. Supported by AICTE and the Ministry of Education's Innovation Cell, the challenge included a Mentorship Track powered by 100+ external mentors and comprehensive learning modules for institutional capacity building.

Campus Ambassador Program

The Campus Ambassador Program, formerly Campus Executive Internship, is a six-month internship designed to create entrepreneurship leaders on campus. With 12,500+ applications and 5,500+ selected ambassadors from 3,500+ colleges, the program played a critical role in outreach, contributing to 21% of Eureka! and 13.5% of NEC team registrations. Ambassadors received mentorship, exclusive perks and certification from IIT Bombay, with support from over 30 partners, including Physics Wallah, Canva, MyCaptain and StockEdge.

Eureka! Junior

Eureka! Junior, a Business Plan Competition, is designed to foster an entrepreneurial mindset among students from classes 6–12. This year, the program impacted over 81,000 students, offering curated sessions and quizzes that saw the selection of 300 for a bootcamp held at IIT Bombay. The final round saw 115 student teams pitching during E-Summit 2025. The initiative also includes the International Entrepreneurship Olympiad (IEntO) - a prestigious global competition recognizing innovation at the school level.

Mood Indigo

Mood Indigo 2024, the annual cultural festival of IIT Bombay and Asia's largest college cultural celebration, took place during 25th-27th December, 2024. The three-day extravaganza witnessed an overwhelming footfall of over 1,54,000 attendees, representing more than 5,000 colleges across India. With the theme "*An Enigma Of Ethnicity*", the festival offered a dynamic blend of tradition and innovation.

The event featured over 230 events spanning multiple genres, alongside more than 250 national and international artists, continuing the MI's legacy of providing the most assorted and entertaining experience to the attendees.

Proshows:



This year, Mood Indigo put together an impressive lineup of celebrities for Eloquence. The list included **Sonu Sood**, **Anubhav Sinha**, **Aparshakti Khurana** and **Sanjeev Kapoor**, India's reknowned chef. Legendary singer Amit Trivedi, participated in a podcast alongside Tarsame Mittal. A lively panel of young Bollywood talents, including **Nitanshi Goel**, **Abhay Verma** and **Sparsh Shrivastava**, captivated the crowd. Acclaimed novelist Ila Arun shared insights about her work "*Pardey ke Peechhey*" while **Nayab Midha's** soulful poetry enthralled the young audience. The theatrical performances by **Dastangoi Collective** and Jubilee Theatre Company, along with **International Fire Showcase** by Pearl William, enhanced the nightlife experience.

Stand-up sensations **Biswa Kalyan Rath** and **Harsh Gujral** were the major highlights of Humorfest, delivering wild performances, while the reknowned **Vijay Raaz** added his unique touch to the festival. Furthermore, an informative gaming panel including **Sharky** and **scOutOP** was a big favourite. At the **International Music Festival**, audiences enjoyed

performances by bands such as **Toddla, Musa** and **Northern Waves**. Indian indie sensations like **Ankuri Tewari** and **Taba Chake** wowed the audience with their passionate performances. In addition, Mood Indigo included artists from countries like the **United Kingdom, Taiwan, the United States, Norway, Tajikistan** and **Germany**. Over 50 interactive and DIY workshops were part of the event, ranging from Bhangra and Garba to Beatboxing, Paint with Puppies and BMX.



Biswa Kalyan Rath

Pronites:

The concerts at Mood Indigo have earned praised for their incredible musical experiences spanning all genres. The Euphonic Nite was headlined by the immensely popular **Armaan Malik**, whose dynamic performance, passion and vocal virtuosity wowed the audience. The night opened with a heartfelt set by the indie-folk band **When Chai Met Toast**, that captivated the audience. The *Hip-Hop Nite* was a filled with excitement, headlined by **Raftaar**, whose exhilarating performance had the entire audience on their feet. The night began with a stunning opening set by **Karan Kanchan**, whose sounds sent shivers through the crowd. A surprise appearance by famed singer and composer **Shekhar Ravjiani**, left the audience ecstatic. For the first time ever, the setup featured advanced technology, including a **hydraulic lift** and a **hanging truss system**, significantly enhancing production quality and safety.

Competitions:

Mood Indigo earns its reputation as a leading cultural event because of its astonishing diversity, with 60+ competitions in 9+ genres. The festival invites the best student talent from across the country to participate in various contests, including drama, dance, film, photography, music, debate, creative writing and



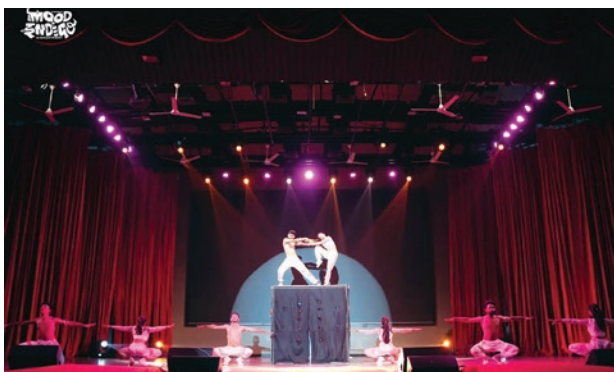
Armaan Malik



distinctively themed informal gatherings. The competitions concluded with the most spectacular dance event, **Choreonite**, featuring some of the top dance teams in the country performing live. Adding a rich cultural dimension, various classical and folk art competitions were established with appreciation from both judges and participants. One of the hallmark events, **'Best of Compi'**, brought together winners from prominent competitions to display the cultural excellence of Mood Indigo across genres. The notable judges of Mood Indigo competitions included **Bhavya Gandhi, Melvin Louis** and Apoorva Arora. Initiatives such as Live Your Passion (LYP) allowed participants to grow in their areas of interest, fostering talent through meaningful collaborations with the National School of Drama, Artium Academy and Hip Hop International. To expand its reach, the Multicity program held elimination rounds in more than 10 major cities of India, ensuring national participation and recognising unique student talent.

Indigo Rewind

After Day 2, Mood Indigo 2024 was cancelled because of the untimely death of Shri Manmohan Singh, the former Prime Minister of India. To make up for the final day, Mood Indigo arranged "Indigo Rewind" with the Institute's assistance. The event included a fantastic comedy show by Ravi Gupta and an



enjoyable and engaging student session with Avinash Tiwari and Boman Irani. The grand finale concluded with a superb fusion performance by The Kabir Cafe and Mithoon's melodic voice.

Media and Publicity:

Mood Indigo's publicity was enhanced through consistent partnerships in print, digital and offline media. Festival ads were first broadcast on four Sony Sports India channels in addition to social media channels Facebook, Twitter and Instagram. The print agreements with Amar Ujala, Hindustan Times City, Woman's Era and Fashion Herald helped MI's reach to grow into new areas. More than 60,000 Mumbai homes got Mirage, a special newsletter created in partnership with The Free Press Journal. The college outreach programme was revamped to raise awareness in Mumbai and other places, including Bengaluru, Pune and Delhi. In addition, other marketing efforts included advertising on local trains, outdoor hoardings, multiplexes and major movie chains such as PVR INOX.

Social Cause:

This year, Mood Indigo upheld the principle of "Accessibility for All" by actively supporting individuals with physical disabilities through collaborations with various NGOs. Recognising its prominence as one of Asia's largest college cultural festivals, Mood Indigo responsibly utilises its platform to advocate inclusivity and foster meaningful social impact.

Yogastha

Yogastha, the wellness initiative at IIT Bombay, actively organizes and executes a plethora of events to promote physical, mental and emotional well-being among the student community. This year, the Team Yogastha conducted the following events:

1. Morning Yoga Sessions:

Held five days a week from 6:30–7:30 AM at New SAC, these sessions, led by core team members (CTMs), enhanced flexibility, reduced stress and improved overall well-being for 20–30 regular participants.

2. Undergraduate and Postgraduate Orientation (August 2024):

Introduced incoming students to Yogastha through interactive sessions, yoga quizzes and breathing practices. Over 700 students attended the orientations.

3. Talk on Psychology, Ayurveda and Naadi Pariksha (3rd August 2024):

An insightful session by Vaidya Mehul Bhai Acharya focused on Ayurvedic psychology, followed by personalized pulse-based diagnosis for 70–80 attendees.

4. Kriya Yoga Talk (16th October 2024):

Spiritual insights shared by Sri Shantanu and Smt. Joyati Kapur helped over 30 attendees explore deep yogic philosophy and inner awakening.

5. Kendriya Vidyalaya School Outreach (16th November 2024):

A special yoga session for more than 70 schoolchildren introduced young minds to yoga and mindfulness through playful and age-appropriate practices.

6. Sahaja Yoga Camp (13th–17th January, 2025):

A three-day workshop led by Sahaja Yoga teachers offered 60–70 daily attendees deep meditative practices for emotional and mental balance.

7. Swasti Yoga Camp (28th–31st January, 2025):

Morning and evening Hatha Yoga sessions by Drs. Vikas and Swetambari Chothe engaged 50–60 participants with a rich blend of asanas and mindfulness.

8. Female Health Session (31st January, 2025):

Led by Dr. Swetambari Chothe, this session addressed PCOD, menstrual health and yoga-based healing for women, with 25 participants.

9. New Team Orientation (15th February, 2025):

Welcomed the 2025 core team with insights from Prof. Neeraj Kumbhakarana and an introduction to Yogastha's structure and initiatives.

10. Meditation for Students (18th February, 2025):

A calming meditation session by Anika helped 25 students tackle mid-semester stress through breathwork and awareness techniques.

11. Chakra Meditation Workshop (10th–13th March, 2025):

Revati Vaidya led a four-day session on Naadis and Chakra healing, fostering emotional clarity and self-awareness, attended by 30–40 participants.

12. Hostel 18 Session (22nd March, 2025):

An outreach event for 20 hostel residents introduced holistic wellness practices beyond the usual setting.

13. International Day of Yoga (IDY) 2024 Celebrations (June 2024):

- **Common Yoga Protocol (CYP) and Yogathon Practice:** Progressive Yogathon practice sessions, led by Yogastha's CTMs, helped participants gradually increase from 12 to 108 Surya Namaskars, fostering strength, routine and well-being ahead of IDY 2024.
- **CYP and Yogathon:** On 21st June, 2024, Yogastha celebrated IDY with a highly successful CYP session and a 108 Surya Namaskar Yogathon, engaging over 250 participants in a vibrant display of wellness, discipline and collective spirit. Over 150 and 120 participants in both events individually.
- **Competitions:** Included Yoga challenge, yoga pose, slogan/ poster making and quizzes.
- **Cool Down Session:** Focused on providing relaxation and recovery post-Yogathon event.

14. Outreach Activities:

- **Instructor Certification Collaboration (14th January, 2025):** Training for aspiring yoga instructors with Swasti Yoga Centre.
- **Yogmay Conclave (23rd February, 2025):** Represented Yogastha at a state-level yoga event in Mumbai.
- **Ayurveda College Visit (March 2025):** Learned about anatomy and Ayurveda in Pune.

Cultural Council

Cultural Council Selection: Nominations for the Institute Cultural Council were invited and the selection process began with interviews for council nominees. Following this, all cultural clubs proceeded to choose their respective conveners. Registrations opened on 23rd March, 2024, via webmail and social media platforms. Each applicant underwent a thorough selection process involving assignments and interviews conducted by club panels. Over the summer, a total of 421 applications were received and 85 conveners were selected for the 2024–25 tenure.

Rukhsat (April 2024): 'Rukhsat' is the farewell event organized by all cultural clubs to bid adieu to their graduating seniors, aimed at passing on memories and advice to juniors. This year, all clubs conducted their Rukhsat events during April and May 2024. It also marked the first event managed by the newly selected council, serving as a smooth start and a strong community bonding experience.

Summer Space of Cult: This program provides a learning opportunity for the students, staff and residents of IIT Bombay through classes across various genres, including dramatics, film, literary arts, music, photography, design, fashion and speaking arts. These sessions were conducted over the summer by professional instructors, offering a valuable creative learning experience.

Cultural General Championship (GC):

The General Championship Opening Ceremony was held on 8th September, 2024, marking the official launch of the cultural GC season. Following the ceremony, a series of inter-hostel cultural events were conducted under the guidance of the Cultural Secretaries. Over the years, around 16 GC events were organized across various cultural genres, fostering healthy competition, creativity and hostel spirit throughout the Institute.

Inter-IIT: The Inter-IIT Cultural Meet 7.0 was hosted by IIT Patna, with competitions held during 24th to 29th December, 2024. The IIT Bombay contingent departed on 22nd December, carrying the energy and passion of a well-prepared cultural force.

It is a matter of immense pride that IIT Bombay emerged as the overall winner of the meet, bagging 9 Genre Cups and securing 12 Gold medals across various events. This remarkable achievement is a testament to the hard work, consistency and collaborative spirit of the entire contingent.

PG Cult**PG Cult Informals (1st September, 2024):**

Held at LTPCSA, PG Cult Informals was a vibrant celebration that showcased a variety of cultural performances across music, dance, fashion, stand-up comedy, shayari and more. It was the very first cultural event conducted for postgraduate (PG) students that provided a joyful and engaging experience for all, reflecting the inclusivity and creative spirit of the PG community at IIT Bombay.



PG Cult Night Phase 1 (6th October, 2024):

Hosted at Convocation Hall, Phase 1 of PG Cult Night featured top talents in music, acting, fashion and more that presented highly polished and heartfelt performances, fostering community spirit and artistic celebration. The grandeur of the Convocation Hall and the large turnout contributed to the night's success.

PG Cult Night Phase 2 (9th March, 2025):

The Phase 2, held at Convocation Hall, featured diverse performances ranging from classical arts to contemporary acts, marking the end of a year-long departmental competition followed by an award distribution ceremony. Over 1300 students participated in the event.

Club Events

Food and Music Night (20th January, 2025):

Held at SAC Lawns, this collaborative event featured melodious musical performances paired with multiple food stalls for students, bringing together the Institute community for an evening of great food, music and conversations under the stars.

Virasat (March 2025):

Virasat, a classical art and heritage festival, featured captivating performances in classical art forms, including music, dance and folk, by renowned artists. It offered a cultural experience that celebrated India's traditional art forms, leaving a lasting impact on attendees.

Izhaar – Flagship Event of Vaani (October 2024):

Celebrating Hindi literature and poetry, Izhaar hosted poetry slams, storytelling sessions and guest performances, providing students a platform to showcase their voice and creativity in an intimate and expressive setting.

Dharohar (September 2024):

Organized by Roots, this celebration of Indian folk culture included music, dance, cuisine, craft performances and exhibitions, highlighting the diversity of Indian traditions through immersive experiences.

Showstopper (November 2024):

Organized by Style-Up in the Convocation Hall, this fashion showcase displayed original student designs and bold ramp walks, promoting self-expression,

creativity and inclusivity.

Documentary Screening – Nilgiris: A Shared Wilderness (February 2025):

Organized by SilverScreen, the screening of this award-winning documentary in Convocation Hall was followed by a discussion with the filmmaker, raising awareness on environmental issues and visual storytelling.

Annual Production Showcase (February 2025):

FourthWall, the Dramatics Club of IIT Bombay, featured a gripping original play that highlighted the acting and direction talents of the Club, drawing a large audience at LTPCSA.

Annual InSync's Dance Showcase (March 2025):

Featuring a variety of dance styles including classical, contemporary, hip-hop and jazz, the showcase highlighted the versatility and energy of InSync, the Dance Club.

Annual Stand-up Showcase (March 2025):

Organized by Comedy Cons, the event was a laughter-filled evening of witty punchlines and relatable stories by the Club's performers. It drew a full house and glowing responses.

Kaladarshan (8th March, 2025):

Organized by Pixel and Fine Arts Club, this was a curated exhibition of artworks from the IIT Bombay community, showcasing paintings, including road painting near hostels, installations, sketches and crafts that reflected diverse perspectives.

Vision (22nd to 24th March, 2025):

Vision, a flagship event of the Design Club, featured competitions, exhibitions and workshops across UI/ UX, product design and graphic arts for design enthusiasts.

Literarium (23rd March, 2025):

The flagship event of the Literary Arts Club, Literarium, hosted debates, writing contests, quizzes and panel discussions with authors and journalists, sparking intellectual conversations and creativity.

Surbahaar (23rd March, 2025):

Surbahaar, Symphony's flagship event, featured solo and group performances in Indian and Western classical music, offering a soulful evening and celebrating the talent of the Club's musicians.

INTERNATIONAL RELATIONS

The Office of International Relations (IR) plays a key role in expanding the Institute's portfolio of international activities. Its key responsibilities include building partnership and defining the scopes of collaborations through the establishment of various types of Memorandums of Understanding (MoUs), coordinating and facilitating the mobility of incoming and outgoing students, as well as academic and administrative staff while providing dedicated support to international students throughout their academic journey at the Institute. In addition, the OIR actively oversees a wide array of outreach initiatives including hosting international delegations, organizing faculty networking events, coordinating short-term programmes and conducting academic sessions and strategic meetings; all of which play a significant role in strengthening IIT Bombay's global presence. The

OIR also manages the activities undertaken under university consortia. The following sections provide a detailed overview of these activities for the academic period from April 1, 2024, to March 31, 2025.

1.0 Overview of Facilitated MoUs

During the period April 2024 – March 2025, IIT Bombay entered into partnership agreements with over fifty (50) international universities and three (3) Indian universities through the Office of International Relations. These collaborations took various forms, including Generic MoUs, Student Exchange, Staff Exchange, PhD Co-supervision, Joint PhD and Master's Degree Programs and Cotutelle arrangements. Table 1 below provides details of the agreements signed between IIT Bombay and its partner universities during the said academic period.

Table 1: MoUs with Foreign and Indian Universities signed through the Office of International Relations (April 2024- March 2025):

Name of the Country	Name of the University
Australia	Monash University
Austria	Montanuniversität Leoben
Belgium	Hasselt University
	Ghent University
Brazil	Federal University of Minas Gerais (UFMG)
	Escola de Direito de São Paulo of Fundação Getúlio Vargas (Direito SP)
	Universidade Federal do ABC (UFABC)
Canada	Simon Fraser University
	University of Toronto
	University of Windsor
Finland	Oulu University
France	École Polytechnique
	Institut Supérieur d'Electronique de Paris
Germany	Technical University Dortmund
	Hochschule für Technik Stuttgart
Indonesia	Universitas Syiah Kuala
Iran	University of Tehran
Israel	Tel Aviv University

Name of the Country	Name of the University
Italy	Università degli Studi di Torino
	National Institute for Materials Science
Japan	Chubu University
	The University of Tokyo
	Tohoku University
	Kyoto University
Myanmar	Kyaing Tong University
Norway	University of Agder
Oman	National University of Science and Technology
Peru	Pontificia Universidad Católica del Perú
Russia	BRICS Network University
	Saint-Petersburg University
	Samara National Research University
	HSE University
	Moscow Polytechnic University
Singapore	National University of Singapore
Spain	University of the Basque Country
	IE University
Sweden	Lund University

Name of the Country	Name of the University
Switzerland	University of Fribourg
UK	The University of Manchester
	University of Strathclyde
USA	The State University of New York at Binghamton
	Colorado State University
	University of Illinois System
	Georgia Institute of Technology
	American Chemical Society
	The Board of Regents of the University of Oklahoma
	The University of Arizona
	Duke University
Uzbekistan	The Regents of the University of California, Davis
	Center of Pedagogical Skills of Samarkand Region
India	Kattakurgan Branch of Samarkand State University
	International Advanced Research Centre for Powder Metallurgy and New Materials, Hyderabad
	National Centre for Good Governance, New Delhi
	K K Wagh Institute of Engineering Education and Research, Nashik

INTERNATIONAL INBOUND STUDENTS

The following section outlines details of international inbound students enrolled in full-degree programs, semester exchanges and research internships.

2.1 Full-Degree Programme (PG and PhD)

During the academic year 2024–2025, the Institute received a total of 1,114+ applications from foreign national applicants worldwide. This includes applications submitted through the Study in India initiative and the Indian Council for Cultural Relations (ICCR). Of these, 22 international students were admitted to the Master’s programmes and 19 students to the Ph.D. programmes. These students

represented countries such as the Bhutan, Botswana, Ethiopia, Iran, Malaysia, Sri Lanka, Sudan, Tanzania, Uganda, USA, Yemen and Zambia.

2.2 Semester Exchange and Research Internship

During the period April 2024 – March 2025, a total of 45 undergraduate and postgraduate students from over 21 universities participated in semester exchange programs during both the autumn and spring semesters, with details outlined in the Tables 2a and 2b. In addition, 19 students from various universities undertook research internships, with strong representation from Europe and Asia (as shown in Table 2c).

Table 2: International Inbound Student (April, 2024 – March, 2025)

a) Autumn Semester

Country	Home University	No of Students	Host Department
Australia	Monash University	1	Electrical Engineering
Bangladesh	Daffodil International University	2	Computer Science & Engineering
Canada	University of Montreal	1	Computer Science & Engineering
Czech Republic	Czech Technical University in Prague	1	IDC School of Design
Denmark	Technical University of Denmark	2	Energy science & Engineering Chemistry

Country	Home University	No of Students	Host Department
Finland	Aalto University	1	Electrical Engineering
France	INSA Lyon	1	Electrical Engineering
	IMT Nord Europe	3	Civil Engineering Computer Science & Engineering Energy Science & Engineering
Germany	Technical University of MUnich	4	Economics Mechanical Engineering Humanities & Social Sciences Computer Science & Engineering
Indonesia	University of Syiah Kuala	2	Civil Engineering Economics
Norway	University of Agder	2	SJM School of Management
Sweden	KTH Royal Institute of Technology	1	Computer Science & Engineering
Switzerland	ETH Zurich	2	Computer Science & Engineering Mechanical Engineering

b) Spring Semester

Country	Home University	No of Students	Host Department
Canada	Simon Fraser University	2	Humanities and Social Sciences SJM School of Management
Finland	Aalto University	1	Computer Science & Engineering
France	IMT Atlantique	2	Computer Science & Engineering,
	IMT Mines Alies	1	Computer Science & Engineering
Germany	Technical Universität Darmstadt	1	Computer Science and Engineering
	Technical University of Munich	5	Aerospace Engineering Computer Science & Engineering Desai Sethi School of Entrepreneurship Energy Science & Engineering
Japan	University of Toronto	1	Computer Science and Engineering
Myanmar	Kyaing Tong University	4	Economics Humanities & Social Sciences Mathematics Physics
Sweden	KTH Royal Institute of technology	1	Desai Sethi School of Entrepreneurship
Switzerland	University of Geneva	1	Humanities & Social Sciences
	ETH Zurich	1	Department of Physics

c) Research Intern

Country	Home University	No. of Interns	Host Department
Brazil	Federal University of Pernambuco	1	Centre of Studies in Resources Engineering
France	University of Lille	1	Chemical Engineering
Japan	Hokkaido University	5	Aerospace Engineering Civil Engineering Environmental Science & Engineering Mechanical Engineering
	Kyoto University	1	Ashank Desai Centre for Policy Studies
	Kyoto Seika University	2	IDC School of Design
Italy	Politecnico di Milano	1	Computer Science & Engineering
	Politecnico di Bari	1	Civil Engineering
Myanmar	Myanmar Institute of Information Technology (MIIT)	4	Chemical Engineering
Turkey	Inonu University	1	Mechanical Engineering
USA	University of California, San Diego	1	Biosciences & Bioengineering
	Brown University, Rhode Island	1	Centre for Educational Technology

2.3 Sponsored Post Graduate Programme and Internship by UT of Ladakh

- The Office of International Relations extends its engagement to include partnerships with Indian universities as well as government education and development initiatives. In collaboration with IIT Delhi and IIT Kanpur, IIT Bombay has partnered with the Ladakh government to launch the “Sponsored Post-Graduation Programme and Internship,” which has been running since

the academic session 2022-23. This initiative aims to provide entrepreneurship education and other developmental programs to Science and Engineering graduate and undergraduate students from the Union Territory of Ladakh. For the academic year 2024-25, IIT Bombay welcomed 4 students into its MTech program, 1 for a PhD program and 7 students for internships. Table 2d below provides further details of the students' participation in these programs.

Table 2d: Inbound Students Mobility from UT of Ladakh

Programme	Department	No of Students
Short Term Internship	Electrical Engineering	2
	Computer Science & Engineering	2
Long Term Internship	Electrical Engineering	2
	Aerospace Engineering	1
MTech	Energy Science & Engineering	2
	Computer Science & Engineering	1
	Civil Engineering	1
PhD	Civil Engineering	1

3.0 OUTBOUND STUDENT MOBILITY

The Office of International Relations has strategically developed multiple avenues for students to engage with partner universities across the world. Following with the Institute's commitment to fostering global collaboration, students are actively encouraged and supported to participate in semester exchange programs, short-term programs and internships. During the period from April 2024 to March 2025, 67 students from IIT Bombay participated in semester exchange programs (details in Table 3) while 62 students took part in various short-term programs as listed below.

- AUA Lecture Series
- AUA-Universiti Malaya Overseas Study Program (Online)
- AUA-HKUST Program 2024, Hong Kong
- Green Challenge at DTU, Denmark
- HSE Saint Petersburg, Russia
- NTU Singapore Global Connect Fellowship
- NUS Young Fellowship Programme
- Sakura Science Indian University Program, Japan
- Tsinghua SIGS Summer School, China
- U7+ Student Challenge

Table 3: Overview of Outbound Students Mobility

Country	Name of the University	Name of the Department	Name of The Program
Australia	Monash University	Industrial Design Centre School of Design	B Des M Des
Belgium	Katholieke Universiteit Leuven	SJM School of Management	MBA
Denmark	Technical University of Denmark	Energy Science & Engineering	Dual Degree
		Mechanical Engineering	BTech
		Chemical Engineering	BTech
Finland	Aalto University	Energy Science & Engineering	Dual Degree
		Mechanical Engineering	Dual Degree
		Mechanical Engineering	BTech
France	Ecole Nationale Supérieure d'Arts et Métiers	Industrial Design Centre School of Design	M Des
	ENS Paris	Computer Science & Engineering	BTech
		Industrial Design Centre School of Design	B Des
	INSA Lyon	Electrical Engineering	Dual Degree
		Energy Science & Engineering	Dual Degree
		Mechanical Engineering	BTech
		Civil Engineering	BTech
	Sciences Po	Energy Science & Engineering	Dual Degree
		Energy Science & Engineering	BTech
	University of Strasbourg	Aerospace Engineering	BTech
		Computer Science & Engineering	BTech
		Civil Engineering	BTech
Mechanical Engineering		BTech	
Hongkong	City University of Hongkong	Energy Science & Engineering	Dual Degree

Country	Name of the University	Name of the Department	Name of The Program
Italy	Politecnico Di Milano	Mechanical Engineering	Dual Degree
		Mechanical Engineering	BTech
	University of Bologna	Energy Science & Engineering	BTech
		Mechanical Engineering	BTech
		Mechanical Engineering	Dual Degree
	Environmental Science & Engineering	Dual Degree	
Japan	Hiroshima University	Metallurgical Engineering & Materials Science	BTech
Korea	Korea Advanced Institute of Science & Technology	Industrial Design Centre School of Design	B Des
		Metallurgical Engineering & Materials Science	BTech
		Economics	B.S.
Norway	University of Agder	Industrial Design Centre School of Design	B Des
Prague	Czech Technical University	Electrical Engineering	Dual Degree
Singapore	National University of Singapore	Energy Science & Engineering	BTech
		Industrial Design Centre School of Design	M Des
		Aerospace Engineering	BTech
		Mechanical Engineering	Dual Degree
		Economics	B.S.
Spain	University of the Basque Country	Physics	BTech
Sweden	KTH Royal Institute of Technology	Mechanical Engineering	BTech
		Mechanical Engineering	Dual Degree
	Malardalen University	Economics	B.S.
		Mechanical Engineering	BTech
Switzerland	EPFL Lausanne	Mechanical Engineering	Dual Degree
		Electrical Engineering	Dual Degree
		Energy Science & Engineering	Dual Degree
		Aerospace Engineering	BTech
		Physics	BTech
		Computer Science & Engineering	BTech
	ETH Zurich	Civil Engineering	MTech
		Electrical Engineering	Dual Degree
		Physics	BTech
		Mechanical Engineering	BTech
	University of Geneva	Computer Science & Engineering	BTech
		Mechanical Engineering	BTech
		Electrical Engineering	BTech
Economics		B.S.	
Turkey	Bogazici University	Energy Science & Engineering	Dual Degree
UK	Loughborough University	Mechanical Engineering	Dual Degree

4.0 STAFF MOBILITY

The staff exchange program provides staff members with a chance to expand their understanding of their work, benefiting the home institution by developing talent and opening up future collaboration

opportunities. These exchanges are supported by IIT Bombay, Erasmus+, the Asian Universities Alliance and other international partners. The Table 4 below provides the details of the inbound and outbound staff exchange programs.

Sl.	Duration	Name of the University and Country	Details of the Staff
Incoming Staff Exchange			
1	July-2024	Koç University, (Turkey)	(i) Ms. Yasemin Can Gokduman Graduate School of Business
2	July-2024	University of the Basque Country (Spain)	(i) Prof. Saioa Herrero, Vice Dean of IR Bilbao School of Engineering
Outbound Staff Exchange			
1	April-2024	University of Sheffield (UK)	(i) Ms. Mamta Kumari Library Information Superintendent Central Library (ii) Ms. Rajni Bhate Administrative Associate, Academic Office (iii) Ms. Sandhya S Kutty Administrative Associate Dean R&D Office
2	April-2024	Institut Teknologi Sepuluh Nopember Surabaya, (Indonesia)	(i) Dr. Pushpa Kumari Project Manager Office of International Relations (ii) Ms. Sushma Jagtap Administrative Assistant Office of International Relations
3	May-2024	University Malaya. (Malaysia)	(i) Ms. Tanvi Mehta Executive Officer Office of International Relations (ii) Ms. Chandrika Naik Clerical Assistant Office of International Relations
4	May-2024	Koç University (Turkey)	(i) Dr. Ipsita Das Senior Project Manager Office of International Relations
5	June-2024	Freie University of Berlin (Germany)	(i) Mr. Bontha V Ravi Shankar Training & Placement Officer Placement Office (ii) Ms. Radhika U. Nadgaonkar Administrative Assistant Dean R&D Office
6	August-2024	Sabanci University (Turkey)	(i) Mr. Harish Padinjarethil, Sr. Sports Officer Student Activity Centre
7	October-2024	University of the Basque country (Spain)	(i) Prof. Shiva Gopalakrishnan Mechanical Engineering (ii) Dr. Pushpa Kumari Project Manager Office of International Relations
8	March-2025	University of Amsterdam (Netherlands) University of Edinburgh (United Kingdom)	(i) Dr. Ipsita Das Senior Project Manager Office of International Relations (ii) Ms. Rebecca Jane Jadin Project Manager Office of International Relations

5.0 OUTREACH ACTIVITIES

The Office of International Relations actively leads a range of outreach initiatives including organizing facilitating international delegation visits, hosting academic sessions, short-term academic programs and coordinating faculty networking meetings to strengthen the Institute's global presence and enhance its international visibility.

5.1 International Delegation Visits

International delegation visits play an important role in establishing new partnerships and strengthening existing ones. Between April 1, 2024 and March 31, 2025, the Office of International Relations hosted several international delegations on campus and organized multiple meetings, both in-person and virtually (as listed in Table 4). The following paragraphs highlight some of the key visits that took place during this academic year.

i) *Tohoku University (December 2024)*



In a significant step toward strengthening global academic collaboration, IIT Bombay and Tohoku University (TU) signed a MoU to establish a collaborative platform for research and innovation. The signing ceremony took place on December 19, 2024, with Prof. Shireesh B. Kedare, Director of IIT Bombay and Prof. Teiji Tominaga, President of Tohoku University, formally exchanging the MoU. The event was graced by Dr. Sharad Kumar Saraf, Chairman of the Board of Governors at IIT Bombay and representatives from Japan. As part of the initiative, the Dual-Doctoral Degree Ph.D. Program (DDDP)/ Cotutelle was also launched for the academic year 2025–26. This program will enable collaborative Master's and PhD studies, offering

students dual mentorship, access to world-class research facilities and immersive experiences within the academic environments of both institutions.

ii) *University of Illinois Urbana-Champaign, USA (February 2025)*

IIT Bombay is actively collaborating with the University of Illinois Urbana-Champaign (UIUC) to formalize a Joint Undergraduate (UG) Program. As part of this initiative, a senior delegation from UIUC visited IIT Bombay. The delegation included their Dean, Prof. Rashid Bashir; Executive Directors Prof. Deba Dutta and Prof. Praveen Kumar; Associate Vice President for Internationalization, Dr. Pradeep Khanna; Dean of Innovation and Entrepreneurship, Prof. Jed Taylor; and Prof. Jonathan Makela from the Department of Electrical and Computer Engineering. A series of meetings, spread over two days, was organized with the senior leadership of IIT Bombay and the IITB-UIUC Joint Committee. Prof. Subimal Ghosh (Department of Civil Engineering) and Prof. Sharad Bhartiya (Department of Chemical Engineering) participated as key members of the joint committee. The discussions focused on formalizing the Joint UG Program, outlining the academic structure, administrative processes and key milestones required for its implementation. In parallel, both institutions are working to identify potential challenges and develop effective strategies to ensure smooth execution of the program.

iii) *German State of Baden-Württemberg (February 2025)*

On February 8, 2025, a delegation from the German state of Baden-Württemberg visited IIT Bombay. Led by Ms. Petra Olschowski, Minister for Science, Research and Art, the delegation included representatives from the Ministry of Science, prominent universities in Baden-Württemberg and other relevant research authorities. Their visit aimed to establish connections with IIT Bombay's esteemed faculty. During the visit, a MoU was signed with Stuttgart Technical University of Applied Sciences to promote institutional collaboration and student exchange. Additionally, IIT Bombay professors engaged with the delegation to explore opportunities for future collaborations.

iv) Chulalongkorn University Delegation (March 2025)

A delegation comprising 26 academicians from various schools and faculties of Chulalongkorn University, a member of the Asian Universities Alliance (AUA)—of which IIT Bombay is also a member—visited IIT Bombay on March 20, 2025. A meeting was organized with senior functionaries of IIT Bombay, including Prof. K.V. Krishna Rao (Ex-Deputy Director, FIA), Prof. Neela Nataraj (Ex-Dean, Faculty Affairs; Acting Dean, International Relations), Prof. Upendra Bhandarkar (former Associate Dean, R&D), Prof. K. Narayanan (Head, Department of Economics) and Prof. Pooja Purang (Head, Department of Humanities and Social Sciences), along with several other faculty members. The discussions focused on potential avenues of collaboration such as student and scholar exchanges, faculty interactions, joint publications and other strategic initiatives. A formal MoU signing ceremony was held at the Thai Government House on April 3, 2025, in the esteemed presence of the Honourable Prime Ministers of India and Thailand. Prof. Sudarshan Kumar (Dean, International Relations) and Prof. Neeraj Kumbhakarna, the Associate Dean (Infrastructure, Planning and Support) represented IIT Bombay at the MoU signing ceremony in Thailand.

v) Delegation from the Université Paris Saclay, France (March 2025)

A delegation from Université Paris Saclay, led by Professor Delphine Placidi-Frot, Vice-President of International and European Relations, visited IIT Bombay on Friday, March 28, 2025. This visit served as a follow-up to IIT Bombay's delegation visit to Université Paris Saclay in October 2024, further strengthening academic ties between the two institutions. During their visit, the delegation engaged extensively with faculty from the Department of Chemistry, fostering discussions on future collaborative activities and joint research initiatives. They were also introduced to the Departments of Chemical Engineering and Energy Science and Engineering, broadening the scope for interdisciplinary collaboration. In recognition of the growing partnership and the continued

discussions on institutional collaboration, the visit culminated in the signing of a MOU for to strengthen the academic and research engagement between IIT Bombay and Université Paris Saclay.

vi) Visits by Consuls General to IIT Bombay

Between April 1, 2024 and March 31, 2025, Consuls General and the attachés from countries including France, Germany, Indonesia, Iran, Italy, Japan, Mexico, the Netherlands, Russia, Sweden, the United States, visited IIT Bombay. These visits were aimed at promoting bilateral relations in areas of education, research, trade and culture and at deepening academic and research collaborations between institutions in their respective countries and IIT Bombay. The interactions often included discussions on ongoing projects, scholarship opportunities, student and faculty mobility programs and academic exchange initiatives. In addition, representatives from the UK Science and Innovation Network (SIN), British High Commission; the Counsellor (Education & Science) from the Embassy of Finland, New Delhi; and a senior delegation from the Embassy of Japan, New Delhi, visited IIT Bombay to promote research collaborations. Furthermore, the Ambassador of France to India visited the institute for high-level policy dialogue focused on advancing international collaboration, building long-term partnerships and aligning shared global objectives in education and research.

vii) High-Level Diplomatic Meetings Exploring Academic Collaborations

Between April 1, 2024 and March 31, 2025, IIT Bombay hosted multiple high-level international delegations to explore strategic collaborations. Mr. Umesh Pandey, Advisor to the Prime Minister of Thailand (Paetongtarn Shinawatra) and Thailand Trade Representative, visited IIT Bombay to discuss various forms of student collaboration. A key focus of the meeting was the Thai Government's initiative to fund Thai students pursuing full-degree programs at IIT Bombay. As a result of this engagement, six Thai students are expected to apply under this scheme. Similarly, Mr. Hadi Badri, CEO of Dubai Economic Development Corporation,

met with senior IIT Bombay officials including the Director, Deputy Directors, Deans (Strategy, R&D and External Relations), PoC SINE, PIC Research Park and CEO of IITB-WashU Academy. The discussions aimed at identifying long-term and short-term collaboration opportunities in STEM education and innovation between Dubai-based institutions and IIT Bombay. In another significant engagement, IIT Bombay participated in a meeting hosted by the Embassy of India in Mexico with Dr. Pankaj Sharma, Ambassador of India to Mexico and Mr. Prasad Shinde, IFS, Secretary (Economic & Commercial), to explore a tripartite collaboration between IIT Bombay, Tec

de Monterrey and TCS. Additionally, a high-level Malaysian delegation led by YB Jagdeep Singh Deo, Deputy Chief Minister and State Minister of Human Capital Development, Science and Technology of Penang, visited the campus. The delegation included senior government officials and members from the Audacious Dreams Foundation and Commonwealth Youth Networks. Their objective was to explore IIT Bombay's research ecosystem, innovation strategies and startup initiatives, while laying the foundation for cross-border knowledge exchange, joint R&D projects and long-term international partnerships focused on sustainable and technology-driven development.

Table 5: Delegations from International Universities/ Institutions

Country	University
Australia	Monash University
	University of New South Wales
	University of Newcastle
	University of Queensland
	University of South Queensland
	University of Sydney
Austria	Montanuniversität Leoben - Technical University
Belgium	Ghent University
Canada	Simon Fraser University
	University of Toronto
	University of Waterloo
	University of Windsor
Denmark	Technical University of Denmark
Dubai	Rabdan Academy
	Centre of Excellence for Applied Research and Training, Higher Colleges of Technology (HCT)
Fiji	Vishan Institute of Technology
	Centre National de la Recherche Scientifique (CNRS)
France	École Polytechnique
	École Supérieure de Commerce de Paris (ESCP)
	Université Paris Cité
	Université Paris Saclay
	University of Lille (Université de Lille)

Country	University
Germany	Karlsruhe Institute of Technology
	Technische Universität Braunschweig
	Technische Universität Dortmund
	University of Potsdam
Greece	National Kapodistrian University
Hungary	Budapest University of Technology and Economics
Indonesia	Universitas Syiah Kuala
Ireland	University College Dublin
Israel	Tel Aviv University
Jamaica	University of the Commonwealth Caribbean (UCC)
Japan	Japan Science and Technology Agency (JST)
	Kyoto University, Japan
	Mynavi Corporation, Japan; Willings Inc., Japan
	The University of Tokyo, Japan
	Tohoku University, Japan
	University of Tsukuba, Japan
	Yamagata Prefectural Government, Japan
Malaysia	Universiti Teknologi MARA (UiTM)
Mexico	Universidad Autónoma Metropolitana (UAM)
Myanmar	Science & Technology International, Myanmar
Netherland	Eindhoven University of Technology
Norway	University of Agder

Country	University
Oman	Dhofar University
	National University of Science and Technology; Oman
France	Central Lille Institute
Czech Republic	Czech Technical University in Prague (CTU)
Russia	Samara National Research University
	National Research University Higher School of Economics, St. Petersburg
	Finance University
	Peter the Great St. Petersburg Polytechnic University
South Africa	Henley Business School, South Africa and Rand Refinery, South Africa
	Technological Higher Education Network South Africa (THENSA)
South Korea	Woosung University
Spain	University of Navarra
	IE University
	Bilbao School of Engineering; University of the Basque Country
Sweden	Blekinge Institute of Technology
	Lund University
	Mälardalen University
Switzerland	University of Fribourg
Taiwan	National Chung Hsing University
Thailand	Chulalongkorn University
	Chiang Mai University
	Mae Fah Luang University

Country	University
United Kingdom	Heriot-Watt University
	Queen’s University
	Swansea University
	University College London
	University of Bristol
	University of Glasgow
	University of Leeds
	University of Sheffield
	U21 Network
	USA
Columbia University	
Duke University	
Georgia Institute of Technology	
McKinsey & Company and Stanford University	
NC State University	
Tufts University	
University of Arizona	
University of Arkansas	
University of Massachusetts Lowell	
Uzbekistan	University of Minnesota
	University of Vermont
	Virginia Tech
	Samarkand State University; Katta kurgan Branch
	Tashkent University of Information Technologies (TUIT)

5.2 Academic Sessions

Between April 1, 2024 and March 31, 2025, the Office of International Relations organized a series of academic sessions aimed at enhancing global exposure and research opportunities for students. An informative session by Humboldt Fellow Dr.-Ing. Arnab Muhuri introduced students to the Alexander von Humboldt Foundation’s sponsorship programs and fellowships available for postdoctoral and experienced researchers in Germany. Another engaging session, focused on “Sustainable Food Systems: Challenges and Opportunities to Deliver Healthy and Sustainable Diets,” was conducted by UCD Berlin faculty members Prof. Eileen Gibney and Prof. Colm O’Donnell, tailored for undergraduate and postgraduate students

from Food Engineering, Chemical Engineering and Bioengineering. On September 13, 2024, the IR Office had the honour of hosting Ms. Aisha Bowe—renowned American aerospace engineer, former NASA Ames Research Centre scientist and Founder and CEO of STEM Board—for a lecture and interactive session with students and faculty members. She shared her inspiring journey from NASA to entrepreneurship, motivating students to take leadership in STEM fields. Additionally, a session focusing on higher education in Japan was held with Prof. Ankit Ravankar and Prof. Fedorynenko Dmytro in March 2025 who provided detailed insights into study opportunities, scholarships and student life at Tohoku University, encouraging students to consider it as a transformative step in their

academic journey. As part of the visit of Université Paris Cité, Professor KOUCHNER, Vice-President of International Affairs, engaged with faculty and students in the Department of Physics and delivered a seminar on “Latest Insights from the Deep-Mediterranean Neutrino Telescopes” during their visit on March 28, 2025.

5.3 International Visits by IIT Bombay Delegations:

(i) Visit to France

In October 2024, a distinguished delegation from IIT Bombay embarked on an academic visit to seven of France’s premier institutions: Université Paris Saclay, École Polytechnique, ENAC, ISAE-SUPAERO, ENS de Lyon, INSA de Lyon and CPE Lyon. The delegation comprised of senior functionaries of IIT Bombay. During the visit, the delegation engaged in high-level discussions with esteemed dignitaries and faculty members, exploring avenues for academic and research collaboration. They also had the opportunity to tour state-of-the-art facilities at each institution. This visit has served as a catalyst for strengthening existing partnerships and forging new ones with leading French institutions. As a result of these engagements, IIT Bombay is actively working

on a series of collaborative initiatives, including research faculty workshops and faculty exchange programs, aimed at fostering deeper academic and research ties with these institutions.

(ii) Visit to the Netherlands

PANIIT Europe hosted the 'Global Conference 2024, Future of Tomorrow' on the 4th & 5th of October 2024 at Vrije University in Amsterdam, the Netherlands. This conference brought together IIT alumni, entrepreneurs, investors, government officials and business leaders, all dedicated to exploring and advancing the future of Global Innovation and AI. From IIT Bombay, Prof. Upendra Bhandarkar, Associate Dean Research and Development and Mr. Shaji Varghese, Chief Executive Officer, SINE participated in this conference. Also, Prof. Bhandarkar and Mr. Varghese visited our valuable partner university, Delft University of Technology (TU Delft), the Netherlands, wherein they met Prof. Dr. Jenny Dankelman, TU Delft's Ambassador to India to discuss and explore opportunities for further collaboration at institute level.

(iii) Visit to Japan

An IIT Bombay delegation comprising Prof. Milind Atrey (Deputy Director; ART), Prof. Sudarshan



IIT Bombay and Tohoku University (TU), Japan, signed a MoU in December 2024 at IIT Bombay to launch joint Master's and Ph.D. programs. This initiative will offer students unique opportunities for dual mentorship, access to world-class facilities, and immersion in the academic environments of two leading institutions. As part of this effort, a signing ceremony was held on April 15, 2025, at Tohoku University in Sendai, Japan, to officially launch a Dual Doctoral Degree Program (DDDP), also known as the Cotutelle Program. Both institutions are committed to realizing their shared vision of cutting-edge academic and research collaboration addressing global challenges.

Kumar (Dean, International Relations), Prof. P. Seshu (Chair, IITB-TU JIE Committee), Prof. K. S. Momaya (Member, IITB-TU JIE Committee), Prof. Ashutosh Kumar (Biosciences and Bioengineering), Prof. P. Gandhi (Mechanical Engineering) and Prof. Velaga Nagendra Rao (Civil Engineering) visited Tohoku University, Japan, from January 15 to 16, 2025. The primary objective of the visit was to engage in discussions with Tohoku University faculty on potential collaborative opportunities in the areas of robotics, digital health, transportation and thermal and fluid sciences. These discussions were part of the broader academic engagement (i.e. Cotutelle Program for PhD) under the Joint Institute for Excellence (JIE). On January 16, 2025, the delegation also visited the Japan Science and Technology Agency (JST) headquarters in Tokyo for a meeting with the JST delegation, which included a courtesy visit to JST President Mr. Hashimoto.

(iv) Visit to UK

In February 2025, a distinguished delegation from IIT Bombay visited four of UK's premier institutions: University of Warwick, University of Sheffield, University of Cambridge and Imperial College London. The delegation was comprised of senior functionaries of IIT Bombay. During the visit, the delegation engaged in high-level discussions with esteemed dignitaries and faculty members, exploring avenues for academic and research collaboration. They also had the opportunity to tour state-of-the-art facilities at each institution. This visit has served as a catalyst for strengthening existing partnerships and forging new ones with leading UK institutions.

5.4 Short Term Program

Between April 1, 2024 and March 31, 2025, the Office of International Relations conducted four short-term programs exclusively for international students. These initiatives are designed to promote international student participation in the various mobility opportunities offered by IIT Bombay, including semester exchanges, full-degree programs and research internships. The following paragraphs outline the details of the programs conducted during the stated period.

i) 2024 International Summer School

The 2024 International Summer School, held from June 17 to July 5, offered nine one-week courses with 25–30 instructional hours each. The first two weeks featured eight courses, including topics like Waste to Energy, AI for Research, Quantum Computing, Entrepreneurship, NLP and Statistical Machine Learning. The program concluded with a course on Introduction to Machine Learning. Over 74 participants from 23+ universities across 20+ countries attended, representing prestigious institutions such as ETH Zurich (Switzerland), KTH Royal Institute of Technology (Sweden), Nottingham Trent University (UK), École Nationale Supérieure d'Arts et Métiers (France), Seoul National University (South Korea), Leibniz University Hannover (Germany), National Research Tomsk State University (Russia), University of California, Los Angeles & California Polytechnic State University (USA), University of Saskatchewan (Canada), University of Balamand (Lebanon), Koç University (Turkey), Nazarbayev University, Astana IT University & Alikhan Bokeikhan University (Kazakhstan), University of Kyoto, Tokyo and Tusukba (Japan) among others.

ii) 2024 AUA Short Term Program

The AUA–IITB Overseas Study Program 2024 was held from June 17 to 21, 2024, with a thematic focus on "Tropical Dynamics and the Global Monsoon." The program brought together over 22 students from seven countries and more than seven universities including Seoul National University (South Korea), Universiti Malaya (Malaysia), Universitas Indonesia (Indonesia), UAE University (United Arab Emirates) and the University of Tokyo (Japan), among others. All participating universities are members of the Asian Universities Alliance (AUA).

iii) 2024 Global Virtual Winter School

IIT Bombay Global Virtual Winter School 2024 was held from December 2 to 13, 2024. It brought together 62 participants from 9 countries and 20 universities, offering them a unique opportunity to engage with IIT Bombay's distinguished faculty and innovative learning environment. The program featured 10 courses, each lasting 5 days, designed to cater to diverse academic interests and real-world challenges. The course topics included: 'Becoming' an Entrepreneur: Leveraging Your University and Local

Ecosystems; Cognition, Emotion and Mindfulness; Introduction to Biostatistics; Power Electronics; Sustainable Marine Engineering and Blue Economy; Waste to Energy; AI EdTech Product Sprint: From Vision to Validated MVP in 5 Days; Data-Driven Modelling of Flows; Online Machine Learning and Optimization; Sustainable Buildings. Participating students represented a wide array of leading institutions, including Institut Teknologi Bandung (Indonesia); Nanyang Technological University (Singapore); Kyoto University and Hokkaido University (Japan); Alikhan Bokeikhan University (Kazakhstan); National University of Science and Technology, Dhofar University and Higher School of Economics (Russia); as well as the University of Sheffield and the University of Edinburgh (United Kingdom), among others.

iv) 2025 IITB-TU Global Immersion Program

A short-term program titled the 2025 IITB-TU Global Immersion Program was conducted exclusively for one of our key partners, Tohoku University, Japan and was held from March 17-21, 2025. Ten students from Tohoku University participated in this program, which marked a significant step toward strengthening the global collaboration between IIT Bombay and Tohoku University. The program included four academic courses—Climate Change, Green Energy, Introduction to Machine Learning and Entrepreneurship—complemented by guided campus tour, informal interactions with IIT Bombay students, visits to various research facilities and a city tour of Mumbai, offering them a comprehensive academic and cultural experience.

5.5 Faculty Networking Meeting

The Office of the Dean of International Relations organizes faculty networking meetings in collaboration with international partner universities, with the objective of fostering academic partnerships. These meetings aim to connect faculty members from both institutions and explore potential areas of research alignment for future collaboration.

i) IIT Bombay and Peter the Great St. Petersburg Polytechnic University, Russia (September, 2024)

The Office of International Relations facilitated a faculty networking meeting between Prof. Dr. Sunita Srivastava (Department of Physics, IIT Bombay),

Prof. Karunakaran (Department of Mechanical Engineering, IIT Bombay) and Prof. Vladimir Kochemirovsky (Peter the Great St. Petersburg Polytechnic University, Russia) in September 2024. Following this interaction, two project proposals were submitted under the DST-RSF initiative: (i) “NIR Laser for Assembly and Photothermal Activities in Nanostructures” by Prof. Srivastava and (ii) “Laser Deposition” by Prof. Karunakaran, both in collaboration with Prof. Kochemirovsky.

ii) IIT Bombay and University of Tsukuba, Japan (September, 2024)

An online faculty networking meeting between IIT Bombay and the University of Tsukuba, Japan, was held on September 30, 2024. The five-hour session focused on key thematic areas including Digital Health (Prof. Nirmal Punjabi, KCDH), Advanced Materials (Prof. Rajiv Dussane, Prof. Tanushree Choudhary, Prof. Amrita Bhattacharya and Prof. Triratna Muneshwar, MEMS), Semiconductors (Prof. Swaroop Ganguly), Transportation (Prof. Tom V Mathew), Robotics (Prof. Kavi Arya, CSE), Architecture, Art and Design (Prof. Bokil Prasad). This networking meeting facilitated meaningful academic exchanges and exploring potential avenues for collaborative research.

iii) IIT Bombay and University of Sheffield, UK (January, 2025)

On January 30-31, 2025, the Department of Energy Science and Engineering hosted professors from the University of Sheffield for interactive sessions focusing on power electronics, energy storage and conversion and process engineering modelling and simulations. Professors from the Departments of Energy Science and Engineering, Electrical Engineering, Metallurgy and Material Sciences and Chemical Engineering participated in the sessions.

iv) IIT Bombay and University of Leoben, Austria (March, 2025)

An online faculty networking meeting between IIT Bombay and the University of Leoben (MUL), Austria, was held on March 17, 2025. The key area identified for collaboration was Materials and Polymer Processing. The meeting was attended by faculty members (Prof. Rajiv Dussane, Prof. Abhijeet Sangle, Prof. Arup Bhattacharya, Prof. Aswani Yella

and Prof. Triratna Muneshwar) from the Department of Metallurgical Engineering and Materials Science (MEMS), IIT Bombay and faculties from Department of Materials Science MUL, Austria. MUL Austria has already secured funding from the Austrian Government to strength ties between IIT Bombay and MUL Austria. In addition, Erasmus funding has been allocated for faculty mobility, further supporting the initiative.

6.0 University Consortia

IIT Bombay is a member of several international consortia and university network alliances, such as the Asian Universities Alliance (AUA), ATU-Net, SATU Presidents' Forum, Heritage Network, U7+ Alliance, FICORE, ATU-Net and the BRICS Network University. The Institute actively participates in and hosts various activities organized under these platforms. Some of the key initiatives carried out under these consortia are listed below, all aimed at fostering inter-institutional cooperation within specific geographical regions.

6.1 SATU Presidents' Forum

i) *IIT Bombay Leads the SATU Consortium 2025*

Prof. Shireesh B. Kedare, Director, IIT Bombay, was elected as the new Chair of the Southeast and South Asia and Taiwan Universities (SATU) during the 2025 General Assembly of the SATU Presidents' Forum, held on March 12-13, 2025, at National Cheng Kung University (NCKU) in Taiwan. The SATU Presidents' Forum, which comprises 105-member institutions from Southeast and South Asia as well as Taiwan, has been instrumental in fostering collaborations and building partnerships among higher education institutions across these regions. IIT Bombay, a member of SATU since the 2013-14 Steering Committee, has continuously contributed to the forum's initiatives, strengthening its role in advancing academic and research cooperation. With IIT Bombay taking the lead, the SATU forum is set to strengthen its global impact and broaden collaborative initiatives among its esteemed member universities, fostering innovation and collective advancement in higher education.

6.2 Asian University Alliance (AUA)

As a member of the Asian Universities Alliance (AUA), IIT Bombay actively participated in several key activities organized under the AUA consortium during the period from April 2024-March 2025. These initiatives aimed to strengthen academic collaboration, promote innovation and entrepreneurship and foster student engagement across member institutions. A summary of the AUA-related activities coordinated and attended by IIT Bombay is provided below.

i) *AUA Innovation and Entrepreneurship Network (AUA IEN) Meeting (November 4-5, 2024)*

An in-person meeting was organized by the Hong Kong University of Science and Technology (HKUST) on November 4-5, 2024, to discuss the establishment of a network of innovation and entrepreneurship offices among AUA member universities. Prof. Santosh Gharpure, Ex-Professor-in-Charge, SINE and Mr. Shaji Varghese, CEO, SINE, represented IIT Bombay at the meeting. The discussions provided a valuable platform for sharing best practices, exploring market opportunities across Asia and strengthening collaboration among AUA member universities in the areas of innovation and entrepreneurship.

ii) *AUA Youth Forum (AUAYF) (November 11-16, 2024)*

IIT Bombay hosted the AUA Youth Forum 2024 on "A Fresh Outlook to Drug Discovery and Personalised Medicine" from November 11 to 16, 2024. The program was coordinated by the Office of International Relations, with Prof. Sandip Kar (Department of Chemistry) and Prof. Abhijit Majumder (Department of Chemical Engineering) serving as course instructors. It covered systems biology approaches, foundational training on organ-on-chip technologies and 3D cell culture systems, along with an industry visit to provide insights into advancements in 3D cell culture and bioprinting. A total of 36 students from 10 AUA member universities participated.

iii) *AUA Executives' Meeting (AUAEM) (November 12-13, 2024)*

As the current holder of the AUA Executive Presidency, IIT Bombay hosted the AUA Executives'

Meeting 2024 on its campus on November 12–13, 2024. The meeting was held in hybrid mode and saw participation from 39 delegates representing 15 AUA member universities. Prof. Shireesh B. Kedare, Director of IIT Bombay, delivered the opening remarks and Prof. Sudarshan Kumar, Dean of International Relations, led the discussions. The agenda included progress updates from AUA Working Groups, reports on AUA programs and a review of program policies for the coming year.

iv) AUA–University of Malaya Overseas Study Program 2024 (December 2–6, 2024)

The University of Malaya, Malaysia, hosted the AUA–University of Malaya Overseas Study Program 2024 from December 2–6, 2024. The program featured online lectures on the theme "Nurturing Sustainable Tech-Driven Education" and included participation from five undergraduate students from IIT Bombay.

v) Participation in the AUA Online Edufair (December 2–6, 2024)

IIT Bombay participated in the 2024 AUA Online Edufair held from December 2–6, 2024. The Edufair offered member universities a platform to showcase programs under undergraduate, postgraduate and short-term categories. On December 3, 2024, Prof. Sudarshan Kumar Dean of International Relations presented an overview of IIT Bombay's short-term summer and winter school programs, highlighting course offerings, application procedures and candidate support services. On December 4, 2024, he introduced the Institute's Master's and PhD programs across Natural Sciences, Engineering, Management, Policy Studies, Humanities, Social Sciences and Digital Health, along with admission cycles, funding opportunities (ICCR, SII fellowships, AARDO scholarships) and the Foreign Teaching Assistantship program.

vi) AUA Women in Optics and Photonics Conference in Asia – India (December 6–8, 2024)

The Women in Optics and Photonics Conference in Asia – India 2024, sponsored by AUA, was hosted at IIT Bombay from December 6–8, 2024. The event celebrated the achievements of women in optics and photonics through keynote addresses, technical sessions, panel discussions, poster presentations

and workshops. Led by Prof. Shobha Shukla, the conference drew participation from 15 AUA member universities, with 126 student presenters, 32 speakers and 25 delegates. The conference fostered a culture of inclusivity and excellence in science, inspiring future generations of women scientists and researchers.

6.3 U7+ Presidential Delegates Meeting

On January 30–31, 2025, the Université Côte d'Azur Excellence Initiative (IdEx) hosted the 2nd Edition of the U7+ Presidential Delegates Meeting in Nice, France. Prof. Ranjith Padinhatteeri (Department of Biosciences and Bioengineering) and Prof. Gopal Dixit (Department of Physics) from IIT Bombay participated in the event and served as members of the Artificial Intelligence and Student Engagement Task Forces, respectively, contributing actively to discussions shaping the alliance's initiatives. During the meeting, it was emphasized that U7+ working groups are the primary mechanisms through which member institutions collaborate to advance the alliance's strategic priorities. It was also noted that three to four key priorities are typically identified each year at the Annual Presidential Summit and subsequently finalized by the Presidential Steering Committee (PSC). The working groups are then responsible for pursuing these objectives and presenting their progress at the following Annual Summit.

6.4 Fédération Gay-Lussac(FGL)

A French delegation from the Fédération Gay-Lussac (FGL) had a two-day event at IIT Bombay during October 3-4, 2024 under the FGL-IIT partnership. The event was intended to have an in-person discussion among all the member universities to boost student and faculty exchange as well as to strengthen the partnership via academic and research collaborations. The agenda of this event was "Building and renewing the research collaborations between FGL-IITs."

6.0 Foreign Language Courses: The Office of International Relations offered a range of language courses for students and staff during the Autumn and Spring semesters of the 2024–2025 academic year, including French, German, Hindi, Japanese, Mandarin Chinese, Sanskrit and Spanish.

ALUMNI AND CORPORATE RELATIONS

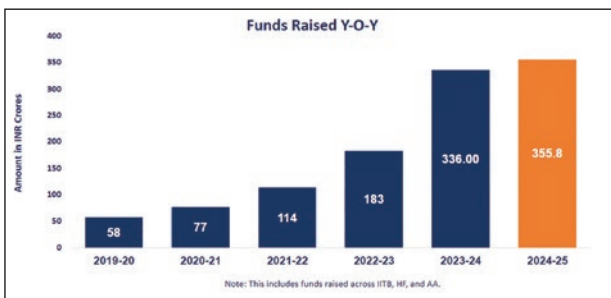
IIT Bombay continues to stand tall in its mission to foster a world-class ecosystem for education, research and innovation. The financial year 2024-25 was a powerful reaffirmation of this vision, strengthened by the remarkable generosity and engagement of our alumni, corporate partners and global well-wishers.

This year, IIT Bombay alumni once again came forward—not only as donors but also as mentors, advisors, guest speakers and ambassadors of the Institute. Whether participating in events such as Alumination and E-Summit, guiding students through mentorship programmes, serving on departmental advisory boards, or supporting transformative initiatives, the alumni community remained a cornerstone of IIT Bombay’s ongoing success.

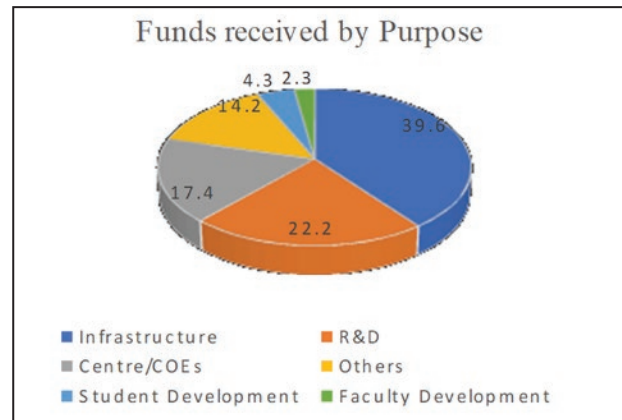
Their support—channelled through the IIT Bombay Heritage Foundation in the U.S. and the IIT Bombay Alumni Association—along with the active involvement of our corporate and foundation partners, enabled the Institute to advance key priorities: cutting-edge scientific research, student financial aid, faculty development and ambitious infrastructure projects.

The Institute focused on several strategic thrust areas, including sustainability, climate change, capital markets, drug discovery, semiconductors, nanotechnology, circular economy, sensors, logistics and supply chain, e-mobility and translational research.

In 2024–25, the Dean ACR office mobilized `355.8 crore—a testament to the enduring trust in IIT Bombay’s mission. Of this, 34% came from individual donors and 66% from corporates and foundations, reflecting a shared commitment to excellence and long-term impact.



In FY 2024-25, IIT Bombay signed new MoUs worth ₹495 crore, laying a robust foundation for sustained support toward the Institute’s future priorities. Of the total committed value, 47% came from individual donors and 53% from corporates and foundations. These strategic partnerships will drive initiatives across cutting-edge research, infrastructure development, student support and faculty advancement in the years to come.



Category	% Allocation
Infrastructure	39.6%
R&D	22.2%
Centre/COEs	17.4%
Others	14.2%
Student Development	4.3%
Faculty Development	2.3%

These generous commitments translated into transformative action across campus, enabling the Institute to launch and expand a range of initiatives, from cutting-edge Centres of Excellence and research labs to modern infrastructure, student amenities and innovation hubs. The key areas supported through these contributions include:

A. INFRASTRUCTURE

- Project Evergreen: Modern Student Residences:** Few initiatives in IIT Bombay’s history showcase the power of alumni collaboration as vividly as Project Evergreen—a landmark endeavour driven by vision, generosity and a deep commitment to

enhancing the student experience. This alumni-led, alumni-built and alumni-delivered project reached a major milestone with its completion ceremony held on 26th April, 2025. With the completion of three state-of-the-art hostels—H7, H8 and H21—Project Evergreen adds 848 rooms, providing nurturing spaces for 1,127 students to thrive academically, socially and personally. Shared amenities include a centrally located dining hall, a canteen/café, dedicated study rooms, mini-gyms, tech rooms, laundry facilities and guest rooms for visiting faculty and family members. These facilities are designed to elevate daily life and foster a vibrant, supportive residential community.

- **Semiconductors, Inclusivity and Campus Life:** IIT Bombay's Distinguished Alumnus Mr. Jitendra Mohan (BTech, Electrical Engineering, 1994) and his wife, fellow alumna Ms. Swapna Samant (BTech, Civil Engineering, 1995), have pledged \$11 million to support key initiatives aligned with the Institute's vision for growth and excellence. A major portion of this generous contribution will be used toward the redevelopment of Hostel 9, enhancing the student living experience. Mr. Mohan's personal connection to Hostel 9 makes this commitment especially meaningful, as it helps transform his former "home away from home" into a modern, vibrant residence for future generations.
- **Hostel 6: Alumni-Driven Transformation:** IIT Bombay's Distinguished Alumni and BrowserStack Co-founders, Mr. Nakul Aggarwal (BTech, Computer Science and Engineering, 2000) and Mr. Ritesh Arora (BTech, Computer Science and Engineering, 2006)—both former residents of Hostel 6—have pledged ₹100 crore to enhance student life on campus. A significant portion of this landmark donation will support the reconstruction of Hostel 6, transforming it into a modern, well-equipped living space designed to foster comfort, community and student well-being.
- **HEARTS'74: A Golden Jubilee Legacy for Affordable and Sustainable Housing:** In celebration of the 50th anniversary of their graduation, the Class of 1974 has launched a

visionary legacy initiative that reflects their strong commitment to societal impact. As part of their Golden Jubilee Reunion in 2024, the alumni signed a Memorandum of Understanding with IIT Bombay to establish HEARTS'74—Habitat for Everyone: Affordable, Resilient, Transformative and Sustainable. The batch has pledged ₹14 crore to the Institute and has already raised ₹10 crore, with ₹8 crore dedicated specifically to the HEARTS'74 project. The initiative aims to design, develop and demonstrate affordable housing solutions tailored to India's diverse geographic and socio-economic contexts. It emphasizes the use of locally available, eco-friendly materials and focuses on capacity-building within communities to create livelihood opportunities. Phase 1 of the project was inaugurated during the reunion with the unveiling of a prototype home, serving as a testbed for innovation in materials, design and construction methods. The initial phase is focused on refining these designs based on real-world performance, enhancing cost-efficiency and scaling solutions across varied regions.



- **Groundbreaking Ceremony of Kendriya Vidyalaya School:** IIT Bombay marked a significant milestone with the groundbreaking

ceremony for the new wing of Kendriya Vidyalaya on 11th October, 2024. This project has been made possible through the generous contributions of KV IIT Powai alumni Mr. Prashant Sharma and Mr. Himanshu Sharma, the trustees of the Smt. Durga Devi Sharma Charitable Trust, along with Mr. Narottam Sharma and Mr. Chandan Sharma from the Sharma Foundation, all of whom came together to support this initiative. The new wing is dedicated to their grandfather, Pandit Chandrabhan Bhuramal Sharma, a freedom fighter who played a crucial role in the Institute's early history by helping secure the land for IIT Bombay campus in 1957. Once completed, the new wing will offer much-needed academic spaces to the school students and reinforce the legacy of inclusive and quality education on campus.



B. CENTRES OF EXCELLENCE / HUBS / LABS / STUDIOS

- Inauguration of Gogri Hub for Membranes Research:** IIT Bombay achieved a major milestone with the launch of the Gogri Hub for Membranes Research, a unit of the Translational Research Centre for Chemicals and Materials, on 23rd April, 2024. The Gogri Hub for Membranes Research has been set up through the generous support of the Gogri family, which includes IITB alumni, Mr. Mirik Gogri (Dual Degree, Metallurgical Engineering, 2013) and Mr. Renil Gogri (BTech, Mechanical Engineering, 2008). The Hub will focus on developing groundbreaking solutions in the field of membrane research, science and technology. Gogri Hub for Membranes Research will enable IIT Bombay to expand and refine its research capabilities in critical domains like water and wastewater treatment, biomedical applications, alternative energy and

gas separation. This initiative aims to scale up research from traditional laboratory or pilot settings to full-fledged industrial applications.



- Inauguration of 10X GMP Facility:** On 24th April, 2024, IIT Bombay inaugurated its state-of-the-art 10X GMP Facility, marking a significant leap in translating academic research into real-world healthcare solutions. Designed to accelerate innovation in healthcare, the facility will support the development and production of medical devices, biomaterials, nanomedicine and gene therapy products. It will also serve as a hub for collaboration between academia, industry and healthcare professionals. The facility is envisioned to empower researchers to manufacture breakthrough healthcare products that are ten times cheaper, better, or faster than current alternatives—making the treatment of complex diseases, including various forms of cancer, significantly more affordable without compromising on quality or efficacy. By expediting technology development and commercialization, the facility aims to improve patient outcomes and enhance societal well-being. This transformative initiative was made possible through the generous support of IIT Bombay's Distinguished Alumnus, Mr. Raj Nair (BTech, Metallurgical Engineering, 1971), Chairman of Avalon Consulting, Germinait Solutions and AGR Knowledge Solutions. His sustained efforts over two years have been instrumental in advancing accessible and affordable healthcare solutions for India. The design and commissioning of the facility were enabled by the engagement and technical expertise of IIT Bombay's Distinguished Service Awardee, Mr. Ajit Jawle (BTech, Civil Engineering, 1977; MTech, Structural Engineering, 1979).



- **Motilal Oswal Knowledge Centre and Centre for Capital Market:** On 17th September, 2024 the Motilal Oswal Foundation made a landmark philanthropic contribution of ₹130 crore to establish the Motilal Oswal Knowledge Centre and the Motilal Oswal Centre for Capital Markets (MOCCM) at IIT Bombay. This historic donation marks a defining moment in corporate giving in India and underscores the Foundation's strong commitment to shaping the future of education and research. The state-of-the-art academic block will serve as a hub for innovation, research and academic excellence. The Knowledge Centre will enhance IIT Bombay's ability to attract world-class talent and further its mission of becoming a global leader in science and technology. The Motilal Oswal Centre for Capital Markets is envisioned to build advanced capabilities that will support the evolution and growth of India's financial sector. This multidisciplinary centre will draw expertise from diverse domains, including Finance, Economics, Management, Operations Research, Computer Science, Artificial Intelligence and Mathematics. MOCCM promises to be a game-changer, providing students with unparalleled

access to industry leaders, hands-on training with real-world data and opportunities to shape the future of the financial sector. This visionary initiative firmly positions IIT Bombay at the forefront of financial education, establishing it as a premier destination for those aspiring to lead in global financial markets. The collaboration also aligns with the Government of India's broader vision of a 'Viksit Bharat', where technological advancements and cutting-edge research are central to societal progress and global leadership for the country.

- **Inauguration of A91 Eco Hub:** IIT Bombay inaugurated the A91 Eco Hub on 14th October, 2024. This 6 storey building of 4790 m² area is built with the estimated cost of Rs. 33 crores. This marks the first in a series of academic buildings being developed to expand and enhance academic infrastructure on campus. Designed to foster interdisciplinary collaboration, the A91 Eco Hub houses the Departments of Economics, Humanities and Social Sciences (HSS) and Industrial Engineering and Operations Research (IEOR). The Hub is home to the Technocraft Centre for Applied Artificial Intelligence (TCA2I), significantly strengthening the Institute's capacity to bridge academia and industry through cutting-edge work in Artificial Intelligence, Machine Learning, Data Sciences and Automation. The A91 Eco Hub has been made possible through the generous support of distinguished IIT Bombay alumni:
 - Mr. Abhay Pandey (BTech, Computer Science and Engineering, 1993), Co-founder and General Partner at A91 Partners, a late-stage venture capital firm



- Dr. Sharad Kumar Saraf (BTech, Electrical Engineering, 1969), Distinguished Alumnus and Chairperson of the Board of Governors at IIT Bombay
- His brother, Mr. Sudarshan Saraf (BTech, Mechanical and Manufacturing Engineering, 1970), also an IIT Bombay alumnus—together, the owners of Technocraft Industries India Ltd.



- **Inauguration of P.G. Bhagwat Automotive Clay Studio:** IIT Bombay inaugurated the P. G. Bhagwat Automotive Clay Studio, a cutting-edge facility dedicated to advancing automotive design and innovation. Located on the ground floor of the Research and Innovation Building, this studio provides students, researchers and industry professionals with state-of-the-art resources to bring their design concepts to life. This pioneering addition was inaugurated on 29th January, 2025 by IIT Bombay alumnus Mr. Dilip Bhagwat (BTech, Aerospace Engineering, 1971) and is dedicated to the memory of his father, late P.G. Bhagwat. As the first state-of-the-art studio of its kind in an academic institution in India, it will equip students and faculty with the tools to design and develop innovative, futuristic and sustainable mobility solutions. By blending creativity with advanced technology, the studio will serve as a dynamic hub for collaboration, offering opportunities to engage with emerging electric vehicle startups in India.



- **ICICI Foundation's Support for BETIC at IIT Bombay:** The ICICI Foundation has pledged its support to strengthen the infrastructure and equipment of the Biomedical Engineering and Technology Innovation Centre (BETIC) at IIT Bombay. This partnership will enable a five-fold expansion of BETIC's facilities, increasing its footprint to 19,700 sq. ft. and significantly enhancing its impact. The newly expanded centre will be named the IITB-ICICI BETIC Hub and will serve as a vibrant ecosystem where researchers, clinicians and industry experts collaborate to develop affordable, high-quality medical devices and diagnostic solutions tailored to India's healthcare needs. The IITB-ICICI BETIC Hub aims to develop new medical devices and prototypes, support med-tech startups and companies, train individuals in healthcare innovation and generate high-value jobs. By facilitating affordable healthcare solutions, the Hub is expected to benefit millions of patients. It will be equipped with resources for product development, medical-grade manufacturing, product safety testing, inspection and packaging.
- **FedEx Centre for Advanced Logistics and Analytics (FedExALFA):** In December 2023, IIT Bombay inaugurated the FedEx Centre for Advanced Logistics and Analytics (FedExALFA), established through a generous grant from FedEx and launched by Distinguished Alumnus Mr. Raj Subramaniam (BTech, Chemical Engineering, 1987), President and CEO of FedEx Corporation. This strategic collaboration aims to advance research, innovation and talent development in the critical domains of logistics and supply chain management. FedExALFA serves as a dynamic research hub focused on enhancing operational efficiency, reducing costs and addressing global logistics challenges through advanced quantitative models and digital technologies. The Centre promotes interdisciplinary collaboration, supports PhD and MTech fellowships and facilitates technology transfer and startup incubation to translate academic research into real-world applications.
- **SBI Foundation Hub for Data Science and Analytics:** The SBI Foundation Hub for Data

Science and Analytics at IIT Bombay represents a significant step toward transforming the Banking, Financial Services and Insurance (BFSI) sector through the integration of Artificial Intelligence (AI) and Machine Learning (ML). The Hub serves as a national platform for high-impact collaboration between academia and industry. It is focused on solving critical challenges faced by the BFSI sector by fostering cutting-edge research, developing inclusive technology and building skilled human capital. The Hub aims to develop sustainable, inclusive and trustworthy AI/ML solutions that can drive the digital transformation of India's financial systems. A major infrastructure component of this initiative is the construction of a 10,000 sq. ft. Innovation and Ideation Hub, currently underway and targeted for completion by 2027.

- **IIT Bombay and HSBC India Collaborate to Advance Green Hydrogen Innovation:** In a strategic move to support India's transition to clean energy, IIT Bombay and HSBC India partnered in 2023 to launch a pan-India green hydrogen initiative. This programme aligns with the Government of India's National Green Hydrogen Mission, which positions green hydrogen as a critical component of the country's sustainable energy future. The initiative aims to accelerate the development, deployment and commercialization of innovative green hydrogen technologies. In 2024, following a competitive national call, six research projects were shortlisted for incubation at IIT Bombay. These projects, selected from proposals submitted by institutions across India—including multiple IITs, NITs and IISERs—were evaluated by a steering committee comprising industry experts and senior IIT Bombay faculty. The selected projects address key challenges across the green hydrogen value chain, including production, storage, transportation and end-use.
- **Green Energy and Sustainability Research Hub (GESH):** The Green Energy and Sustainability Research Hub (GESH) at IIT Bombay was established in 2023 through a

landmark donation of \$18.6 million from a distinguished U.S.-based alumnus. GESH represents a transformative step toward addressing the global climate crisis and is dedicated to advancing cutting-edge research in green energy and sustainability. Serving as the central node for all sustainability-related research, education and services at the Institute, GESH seeks to nurture future leaders equipped to tackle environmental challenges with creativity and innovation. During 2024, GESH awarded research grants, held conclaves, launched the Campus Sustainability Programme and initiated the GESH Fellowship, all in pursuit of the Hub's long-term goals.

- **IIT Bombay Unveils the New DSSE Facility:** The inauguration of the new DSSE facility was a momentous occasion, graced by IIT Bombay dignitaries including Prof. Shireesh Kedare, Director and Prof. Ravindra Gudi, Ex-Dean (Alumni and Corporate Relations). The event also welcomed Distinguished Alumnus Mr. Bharat Desai (BTech, Electrical Engineering, 1975) and his wife, Ms. Neerja Sethi, the esteemed benefactors of DSSE. They were joined by the Chief Guest, Dr. Abhay Jere, Vice-Chairman, All India Council for Technical Education (AICTE) and Chief Innovation Officer, Ministry of Education. Their presence highlighted a shared vision of fostering an entrepreneurial ecosystem that bridges academia, industry and cutting-edge research. The new Desai Sethi School of Entrepreneurship (DSSE) building, set to become operational later this year, is a 115,000 sq. ft. facility strategically located next to the IIT Bombay Central Library. It is designed to provide specialized spaces for design, prototyping, manufacturing, co-working and pre-incubation programmes. The facility will feature cutting-edge learning and innovation spaces, including:
 - A state-of-the-art Makerspace, designed to nurture the next generation of entrepreneurs and startup technologies

- Design Thinking And Recording Studios
- Co-working Labs and Startup Café
- Thematic Labs
- Tinkerers' Lab
- Proof-of-Concept Lab
- Manufacturing / Heavy Equipment Labs

With a strong emphasis on experiential learning and interdisciplinary engagement, the new DSSE building aims to accelerate entrepreneurship education, startup incubation and technological innovation. Once fully operational, it will serve as a launchpad for the next generation of trailblazing entrepreneurs, further strengthening IIT Bombay's position as a national leader in innovation-driven enterprise development.



- **Inauguration of Arun Firodia Research Floor:** IIT Bombay signed a Memorandum of Understanding (MoU) with Distinguished Alumnus Mr. Arun Firodia (B'Tech, Electrical Engineering, 1965), Chairman of the Kinetic Group, to support strategic initiatives in mobility and electronics—key pillars of the Institute's vision for future growth. This collaboration will facilitate infrastructure development and enhance IIT Bombay's research capabilities in these critical areas. In recognition of Mr. Firodia's generous contribution, the Arun Firodia Research Floor was inaugurated on 15th April, 2024.



C. KEY CONTRIBUTIONS:

- **IIT Bombay's Distinguished Alumnus, Mr. Nandan Nilekani, Revisits His Alma Mater:**

Nearly a year after his extraordinary donation, IIT Bombay's Distinguished Alumnus Mr. Nandan Nilekani (B'Tech, Electrical Engineering, 1978) returned to campus to witness the tangible impact of his contribution. His visionary philanthropy has accelerated progress across multiple domains, including semiconductor technologies (Semi-X), biosciences and healthcare. The upcoming Semi-X Lab is set to drive innovation in materials science, system integration and chiplet hetero-integration, while a new pre-clinical facility will expedite research in affordable therapeutic solutions.



Mr. Nilekani also reviewed the progress on the refurbishment of IIT Bombay's historic Main Building, which has been renamed the Nandan Nilekani Main Building in his honour.

- **IIT Bombay Student Flourishing Hub:** During their 25-year reunion, IIT Bombay's Class of 1998 announced a generous pledge of ₹ 57 crore to support strategic initiatives at the Institute. The batch signed a Memorandum of Understanding (MoU), marking a significant step toward deploying funds for student and faculty development, cutting-edge research and campus infrastructure. A key initiative supported through this commitment is the IIT Bombay Student Flourishing Hub, an innovative programme housed within IIT Bombay's Student Wellness Centre. The Hub aims to build on the Institute's ongoing efforts to support students by strengthening psychological well-being, mental resilience and essential life skills empowering them to thrive both academically and professionally.



- **Philanthropic Support by Dr. Kishore Seendripu:** Distinguished Alumnus Dr. Kishore Venkata Seendripu (BTech, Metallurgy and Materials Science Engineering, 1990, Silver Medallist) has made a significant contribution to the Institute's immediate strategic priorities through an unrestricted philanthropic grant. This generous gift will strengthen IIT Bombay's cutting-edge research efforts through research grants, support infrastructure development and address student needs, along with other strategic initiatives. In recognition of his philanthropic support, the Institute has named Lecture Hall Complex 3 as the Seendripu Krishna Murthy Lecture Hall Complex.

D. FACULTY DEVELOPMENT:

1. **Young Faculty Fellowship:** The Young Faculty Fellowship (YFF) continues to make a substantial and lasting impact on IIT Bombay's faculty profile. Originally established in 2007 as the Young Faculty Award (YFA), the YFF is now a key component of IIT Bombay's Tryst with Excellence initiative. It bridges the financial gap between industry and academia, making IIT Bombay a more attractive destination for promising early-career faculty and strengthening their long-term commitment to academia. The fellowship serves as a strategic tool for attracting, recruiting and retaining the brightest young minds from around the world to join IIT Bombay's distinguished faculty. In FY 2024-25, the YFF was awarded to 95 faculty members.
2. **Chair Professorship:** The Chair Professorship at IIT Bombay is a prestigious distinction awarded to permanent faculty in recognition of their exceptional contributions to teaching and research. These endowed positions—referred

to as “Chairs”—represent the highest academic honor at the Institute and play a critical role in attracting and retaining top research talent. Chair Professorships recognize groundbreaking academic achievements and enhance IIT Bombay's global standing. They span a wide range of disciplines—from traditional areas such as Textile Engineering, Structural Engineering and Mechanical Engineering, to emerging and high-impact fields like Quantum Computing, Sustainable Development and Nanotechnology. This disciplinary breadth ensures that the Institute remains at the forefront of innovation while addressing both current and future global challenges. As of FY 2024-25, IIT Bombay has a total of 90 Chair Professorships, comprising 66 Named Chairs, 18 Institute Chairs and 6 Visiting Chairs.

3. **D.P. Joshi Excellence in Teaching Award:** The D. P. Joshi Memorial Award was instituted by Distinguished Alumnus Dr. Narendra Joshi in memory of his late father. The award recognises outstanding faculty members from the Departments of Mechanical and Aerospace Engineering, based on student feedback collected through departmental surveys. In 2024, the honour was conferred upon Prof. Amber Shrivastava and Prof. Upendra Bhandarkar, Department of Mechanical Engineering.
4. **Hotchand Lala and Jamunabai Lala Award:** The Hotchand Lala and Jamunabai Lala Memorial Award was established through the generous contribution of IIT Bombay alumnus, Dr. Jay Lala, in memory of his parents. This award recognises outstanding faculty members in the Aerospace Engineering Department. In 2024, the award was conferred upon Prof. Jadav Mandal and Prof. Avijit Chatterjee.

E) STUDENT DEVELOPMENT:

1. **Scholarships:** Student scholarships are financial awards aimed at supporting and encouraging meritorious and deserving students in their academic journey. These scholarships help alleviate the financial burden of education and ensure that talented individuals are not held back due to economic constraints. At IIT Bombay, a

wide range of scholarships are offered based on merit, need and specific donor criteria, allowing students to focus on their studies and overall development. Scholarships not only recognize academic excellence but also promote equal opportunities and inclusivity across the student community. For the academic year 2025-26, a total of 294 undergraduate students, including 104 female students, were awarded Named Scholarships amounting to approximately ₹7.35 crore. This support was made possible through the generous contributions of 168 donors.

2. **Awards and Prizes:** To recognize excellence in academics and research, IIT Bombay annually confers awards, prizes and medals to students during its Convocation Ceremony. At the 62nd Convocation held in August 2024, around 188 students were honoured for their outstanding achievements during FY 2024-25. A total of 77 award categories were conferred this year, celebrating the exceptional dedication, intellectual rigor and all-around excellence of IIT Bombay's student community.
3. **Fellowships:** The Dean (Alumni and Corporate Relations) office offers vital fellowship programmes for postgraduate and PhD students, promoting academic excellence and strengthening industry collaboration. Students receive fellowship support from corporates, foundations, alumni and philanthropists, which plays a critical role in advancing their academic pursuits. These programmes not only provide financial aid but also offer valuable R&D opportunities, enabling students to contribute to impactful research while fostering industry-academia partnerships. Currently, there are 121 active fellowship recipients across various disciplines.
- F: Batch Legacy Projects:** The Batch Legacy Project at IIT Bombay is a time-honoured tradition that brings alumni together during reunions to support pivotal initiatives at the Institute. Over the past three years, Batch Legacy contributions have shown a consistently upward trajectory—from ₹27.58 crore in FY 2022 to ₹33.31 crore in FY 2023 and further to ₹35.6 crore in FY 2024. This sustained generosity reflects the alumni's

deep commitment to the growth of the Institute and the well-being of its students, faculty and infrastructure. In addition to the collections, various legacy batches collectively pledged over ₹39 crore in FY 2024, reaffirming their long-term dedication to fostering academic excellence, innovation and the overall enhancement of campus life. Some of the key initiatives supported by Batch Legacy contributions include:

- Young Faculty Fellowship (YFF)
- Research and Innovation initiatives, including Chair Professorships
- Faculty awards such as FARE
- Infrastructure projects such as Project Evergreen, EV lab, Sustainable Housing, Makerspace, Micro factories, Café and more
- Student Development and Wellness
- Fostering a Culture of Innovation, like the IDEAS programme that sparks student creativity and the Translational Research Accelerator (TRA)
- Applying Technology towards the Viksit Bharat mission

These diverse contributions reflect the enduring legacy and continued engagement of IIT Bombay alumni, even as they benefit the current and future generations. The batches have truly embodied the spirit of giving back to their alma mater, playing a pivotal role in shaping IIT Bombay into the prestigious institution it is today.

2. CORPORATE ENGAGEMENT:

FY 2024-25 marked a milestone year for corporate and CSR partnerships at IIT Bombay. The Institute signed 81 new CSR agreements with industry partners, accounting for a cumulative commitment of ₹262.2 crore. Corporate funding received during the year stood at ₹124.5 crore. IIT Bombay received CSR support from over 140 companies, reflecting the growing trust that industry places in the Institute's vision of research-driven innovation, societal transformation and nation-building. Prominent industry contributors included the Motilal Oswal Foundation, ICICI Foundation, Coal India Limited, FedEx, SBI Foundation, HSBC Limited (India), HPCL, ONGC, Citadel Securities India Markets Pvt. Ltd., HiMedia Laboratories Pvt. Ltd., HDFC

Ergo, JSW Steel Ltd., JSW IP Holdings Pvt. Ltd., Tata Consulting Engineers, Tata Trusts, Tower Research Capital, ABB India Limited, Indus Towers, Waaree Energies, Hella India Automotive, Adani Group, SEIL India Energy, Roadstar, Autodesk, Airpac Filters & Systems, JSI Investments, IK Capital Advisers Pvt. Ltd., Kongsberg and Baker Hughes.

These partnerships span a broad range of strategic initiatives, including the development of academic and research infrastructure, establishment of Centres of Excellence (CoEs), funding of cutting-edge research projects, Chair Professorships, student scholarships and fellowships. Such collaborations have played a critical role in advancing efforts across domains such as financial markets, clean energy, medical technology, infrastructure development and digital learning—helping IIT Bombay deepen its impact and sustain its pursuit of excellence at scale.

3. OUTREACH EVENTS:

a) Faculty Alumni Network (FAN) 2024: IIT Bombay, in collaboration with the IIT Bombay Heritage Foundation and the Stanford Doerr School of Sustainability, hosted the Faculty Alumni Network (FAN) 2024 event at Stanford University, USA during 19th–21st July, 2024. The event convened leading academics, industry experts and alumni from around the globe to explore opportunities for collaboration and knowledge exchange.

Key highlights included:

- A dinner talk by Prof. Daniel L. Schwartz on AI in Education
- A keynote address by Nobel Laureate Prof. Steven Chu
- A fireside chat with Dr. Arunava Majumdar

Breakout sessions on critical themes including Quantum Technologies, Energy, Climate, Healthcare, Smart Cities, Transportation and Artificial Intelligence. Prof. Shireesh Kedare, Director, IIT Bombay, expressed hope that FAN 2024 would catalyze the use of technology and education to address urgent societal challenges. The event also featured a panel discussion on IIT Bombay's Translational Research Ecosystem and a Distinguished Alumni meeting, emphasizing the

pivotal role of alumni in shaping the Institute's future.

b) CSR Conclave: IIT Bombay successfully hosted the third edition of its highly anticipated Annual CSR Conclave on 17th June, 2024. Centered around the theme “*Unlocking CSR for Impactful Research,*” the event brought together domain experts, industry leaders and corporate decision-makers to explore the vital role of corporate social responsibility (CSR) in advancing research and technological innovation for societal and national development. The conclave witnessed the participation of over 200 corporate delegates. Distinguished Alumnus Mr. Adil Zainulbhai (BTech, Mechanical Engineering, 1977), Chairman, Capacity Building Commission, Government of India, was the Chief Guest on the occasion. A major highlight of the event was a Fireside Chat featuring Mr. Zainulbhai and Dr. Ganesh Natarajan (PhD, School of Management, 2005), also a Distinguished Alumnus of IIT Bombay. Their engaging discussion addressed pressing challenges facing research in India—such as limited government investment compared to countries like the United States and China, the complexity of securing corporate funding for projects with long-term or intangible outcomes and the critical need to raise public awareness about IIT Bombay's research impact. Other key highlights included panel discussions, Tech Showcase featuring cutting-edge research innovations by faculty and Exhibition stalls presenting technologies developed by various Centres of Excellence. The event also marked the launch of the Annual CSR Catalogue 2024, spotlighting a curated selection of impactful research projects at the Institute. The day concluded with the Strategic Partnership Awards Ceremony, honouring IIT Bombay's leading partner organisations for their exceptional contributions to driving societal change and innovation through strategic CSR collaborations.

c) Student Alumni Relations Cell (SARC) Activities:

- Core Talks: The 2024 edition of Core Talks featured series of engaging sessions organized by the Student Alumni Relations Cell (SARC) at IIT Bombay. Designed to connect students with

accomplished alumni from diverse fields, these sessions provided valuable insights into higher studies, placements, research opportunities and career pathways. The initiative served as a meaningful platform for students to seek guidance and explore various professional trajectories through first-hand alumni experiences.

- **Alumni Student Mentorship Programme Orientation (ASMP):** Spearheaded by SARC, the Alumni Student Mentorship Programme (ASMP) aims to foster impactful mentoring relationships between alumni and current students. By pairing student mentees with alumni mentors and organizing a series of interactive events, the programme creates a supportive environment for personal and professional growth. In 2024-25, approximately 500 students benefited from this mentorship initiative.
- **Alumination:** The Student Alumni Relations Cell (SARC) hosted *Alumination 2024: Noren of Nostalgia*, a vibrant celebration that brought together over 3,000 attendees, including alumni, students and faculty. The event offered a dynamic blend of mentorship, learning and celebration through various activities and programmes, including Break the Ice, Innovation Expo, Trailblazers: Learning from the Experts, Unengineering: Embracing Unconventional Paths, Start it Up: Nurturing Startup Culture, Beyond the Horizons (Grand Finale), nostalgia sessions and workshops. By reconnecting alumni with their roots and guiding students toward new opportunities, Alumination 2024 successfully bridged cherished memories with future aspirations—creating a truly enriching and memorable experience for all participants.

d) Alumni Meets:

Engaging and connecting with IIT Bombay's extensive global alumni community remains a key priority for the Institute. These alumni meets and roadshows serve as pivotal platforms for fostering meaningful connections, cultivating a strong sense of community and garnering critical support for the Institute's growth and development. These interactions play an essential role in strengthening the bond between IIT Bombay and its esteemed

alumni, while fostering a collaborative environment for mutual progress and advancement.

- **Japan Alumni Connect 2024:** IIT Bombay's leadership engaged with its alumni community in Japan through a series of events held in Hiroshima, Kyoto and Tokyo, reinforcing global ties and celebrating alumni contributions across academia and industry. Prof. Shireesh Kedare, Director, IIT Bombay, shared key updates on initiatives such as the Research Park, SINE Fund and the Institute's focus on interdisciplinary research. Dr. Yashawant Dev Panwar, Counsellor for Science and Technology at the Embassy of India in Tokyo, emphasized the important role of the IIT Bombay diaspora in Japan's scientific and industrial landscape.



- **Mumbai Alumni Connect 2024:** Mumbai Alumni Connect 2024 brought together a vibrant group of alumni for an evening filled with nostalgia, inspiration and engagement. Prof. Shireesh Kedare, Director and Prof. Ravindra Gudi, former Dean (ACR), provided updates on the Institute's recent advancements. In his address, Prof. Kedare highlighted IIT Bombay's growing stature and stressed the alumni's role in bridging the gap between research and practical application, stating that while the Institute excels in the "science of technology", the true challenge lies in mastering the "engineering of technology". The event also featured presentations by distinguished alumni, reinforcing the theme of collective progress and connection.

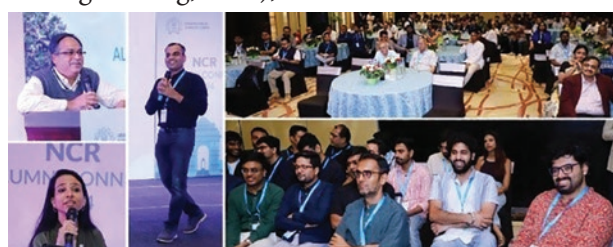


- UAE Alumni Meet:** The UAE Chapter of the IIT Bombay Alumni Association (IITBAA) hosted the 2024 Alumni Meet, bringing together a dynamic community of alumni for a day of networking, learning and celebration. Prof. Shireesh Kedare, Director, shared insights into the Institute's latest developments, while Mr. Advait Kurlekar, Chairperson of IITBAA, discussed the association's upcoming plans and strategic initiatives. The event included a Masterclass on "Harnessing AI for Sustaining Innovation" by Prof. Markus Baer, Vice Dean of Executive Education, Washington University in St. Louis.

- Jaipur Chapter Meet 2024:** The Jaipur Alumni Meet gathered esteemed alumni and industry leaders for an enriching evening of dialogue and community building. Prof. Shireesh Kedare delivered the keynote address, outlining the Institute's future vision, followed by Prof. Ravindra Gudi, who spotlighted the critical contributions of alumni to IIT Bombay's sustained growth. Leaders of the Jaipur Chapter—the President and Secretary—also shared updates and plans for enhancing alumni engagement in the region.



- NCR Chapter Alumni Meet 2024:** At the NCR Chapter Alumni Meet, Prof. Shireesh Kedare and Prof. Ravindra Gudi delivered impactful presentations on the Institute's ongoing progress and strategic vision. A major highlight was the address by Mr. Devendra Agrawal (BTech, Electrical Engineering, 2005), Board Member, IITBAA and Founder of Dexter Capital and Dexter Ventures. He also hosted an engaging fireside chat with Mr. Gaurav Munjal (BTech+MTech, Mechanical Engineering/ Thermal and Fluids Engineering, 2004), Founder of Infollion.



- Alumni Meet:** Australia (Sydney, Melbourne) and Singapore: A distinguished delegation from IIT Bombay embarked on a Singapore–Australia roadshow, beginning in Singapore on 15th March, 2025. The event was marked by enriching conversations, nostalgic reflections and a renewed spirit of connection. The gathering in Melbourne underscored the enduring strength of the IIT Bombay alumni network, with graduates sharing experiences and discussing new avenues of engagement with their alma mater. The momentum continued in Sydney, where alumni gathered for another inspiring evening. Prof. Shireesh Kedare delivered an impactful address highlighting IIT Bombay's journey and global

aspirations. A special moment of the evening was the felicitation of Dr. Marlene Kanga (BTech, Chemical Engineering, 1976) for her outstanding achievements and contributions to engineering and global innovation.

e) Roadshows

- US Roadshow:** A distinguished delegation from IIT Bombay embarked on a US Roadshow, visiting New York, San Francisco, Austin, Dallas and Portland. The Roadshow provided a dynamic platform for the Institute's leadership to engage with alumni, share key updates and explore new opportunities for collaboration. Over 500 alumni, spanning six decades, participated in these events—strengthening the global IIT Bombay community and reaffirming the Institute's commitment to excellence in education, research and innovation. Prof. Shireesh Kedare, Director, IIT Bombay and Prof. Ravindra Gudi, former Dean ACR, led the engagements through insightful fireside chats and presentations. They outlined the Institute's vision, strategic priorities and key challenges, while also encouraging alumni participation in the upcoming fundraising campaign. Each session featured an inspiring video showcasing IIT Bombay's journey, followed by a lively Q&A segment that fostered meaningful dialogue and deepened the connection between the Institute and its alumni.



f) New Social Media Channels

The Office of Dean ACR has launched new social media channels on **LinkedIn, Facebook and X**, offering exclusive updates and insights on IIT Bombay's pioneering research, cutting-edge infrastructure, distinguished faculty and vibrant entrepreneurial ecosystem.

g) Reunions (Old Friends, New Ideas)

- Decennial Reunion of Class of 2014:** The Class of 2014 marked their 10-year reunion during 23rd-25th November, 2024, with an event celebrating milestones, achievements and the unique camaraderie that continues to define this incredible Class.



- Class of 2008/ 2009/ 2010 Reunion:** The Class of 2008, 2009 and 2010 celebrated their reunion during 20th-22nd December, 2024. The event brought alumni together to rekindle friendships and relive cherished memories, creating an unforgettable experience filled with laughter, heartfelt stories and shared joy.
- Silver Jubilee Reunion of Class of 1999:** The Class of 1999 celebrated their Silver Jubilee Reunion during 27th-29th December, 2024. The batch pledged Rs. 21.2 crore towards the institute's Legacy Project during its annual Alumni Day celebrations held on campus on Sunday. The Legacy Project is a tradition for alumni celebrating their Silver Jubilee anniversary to contribute to initiatives that enhance the Institute's academic projects and research landscape. The funds pledged by the class of 1999 would bolster key academic projects and strategic initiatives.



- **Postgraduate (PG) Alumni Reunion:** IIT Bombay hosted its first-ever focused postgraduate alumni reunion during 4th-5th January, 2025, to celebrate the pivotal role of PG students in making the Institute into a globally recognized research powerhouse. The event brought together individuals who have made lasting contributions in academia, corporate R&D and innovation with societal and industrial relevance. The reunion saw an enthusiastic turnout, with a remarkable number of alumni registering and participating, making the gathering both meaningful and memorable. Alumni visited departments and labs, where faculty and heads showcased cutting-edge advancements. Many reconnected with former mentors and explored opportunities for future collaboration. The atmosphere was rich with nostalgia and optimism, as alumni reflected on the Institute's growth and expressed a strong desire to contribute to its continued success and legacy.



- **Golden Jubilee Reunion (GJRU) of Class of 1974:** The Class of 1974 celebrated their Golden Jubilee Reunion (GJRU) during 18th-23rd January, 2025, filled with nostalgia, gratitude and a profound sense of connection. A highlight of the event was the launch of the HEARTS'74 Legacy Project (Habitat for Everyone: Affordable, Resilient, Transformative, Sustainable)—an inspiring initiative led by the Class of 1974 to transform affordable housing in India.
- **Golden Jubilee Reunion (GJRU) of Class of 1975:** The Class of 1975 celebrated their Golden Jubilee Reunion during 1st-6th February, 2025. Fifty years after graduating, the class returned to their alma mater, not just as accomplished professionals but as lifelong contributors to the

Institute's growth. The celebration was filled with nostalgia and pride, highlighted by a presentation reflecting their journey – from being part of the founding team of Mood Indigo in 1973, to playing a key role in establishing the IIT Bombay Alumni Association and the IIT Bombay Heritage Foundation. Over the years, the Class of 1975 has supported key initiatives such as the gymkhana, tennis court, Invention Factory, hostel renovations and Project Evergreen. Their contributions also include scholarships, fellowships and faculty awards, promoting access and excellence.



- **Diamond Jubilee Reunion of Joining (DJRU) of Class of 1963:** The Class of 1963, the second batch to graduate from IIT Bombay, returned to their alma mater on 29th December, 2024, more than sixty years after they first set foot on campus. Nine esteemed members of the batch walked the familiar corridors once again during Alumni Day, reminiscing about friendships, reliving cherished memories and witnessing the remarkable evolution of the Institute. Their Diamond Jubilee Reunion was not just a celebration of time passed, but a reflection of the enduring bond they share with IIT Bombay. Their journey home was a heartfelt testament to the lifelong connection the Institute nurtures—and IIT Bombay was deeply honoured to welcome them back.



- **Diamond Jubilee Reunion (DJRU) of Class of 1965:** The Class of 1965 celebrated their Diamond Jubilee Reunion during 4th-7th February, 2025. Alumni returned to their beloved alma mater for a memorable celebration filled with warmth, nostalgia and camaraderie. Their days began with refreshing yoga sessions, followed by heartwarming visits to their former hostels and departments, where they fondly reminisced about their student days. They toured the cutting-edge Arun Firodia Research Floor, experienced IIT Bombay's forward-looking green initiatives and the newly developed student living spaces under Project Evergreen and concluded their evenings with a delightful musical night curated for their enjoyment.



- **Diamond Jubilee Reunion (DJRU) of Class of 1964:** The Class of 1964 celebrated their Diamond Jubilee Reunion during 23rd-25th February, 2025. It was a joyous homecoming as alumni reconnected with old friends, revisited their hostels and departments and reminisced about their student days. The celebration was marked by warm interactions, shared memories and a lively musical evening that added to the spirit of togetherness.



h) Named Lectures:

- **Radhika Rajan Lecture:** Prof. Mangala Subramaniam, Senior Vice Provost for Faculty Affairs and Professor of Sociology at Virginia Commonwealth University (VCU), delivered the inaugural lecture titled “Strategies for Mitigating Unconscious Bias in Workspaces and Classrooms” on 12th July, 2024
- **Prof. N.R. Kamath Distinguished Institute Lecture:** As part of the series, the following lectures were held throughout 2024-25:
 - Prof. Kaushik Basu, Carl Marks Professor at Cornell University, delivered the following two lectures:
 - “India’s Unemployment Problem: Some Lessons from Economic Theory” on 12th August, 2024
 - “Changing Nature of Labour and Employment: Some Conceptual Issues and Ideas for India” on 29th January, 2025
 - Dr. Arun Dravid, a distinguished IIT Bombay alumnus and Chairman Emeritus of Jacobs Engineering India Ltd. Dr. Dravid, delivered a lecture titled “Science of Musical Notes: Sur and Shrutis” on 18th September, 2024
 - Prof. Michael L. Klein, Institute for Computational Molecular Science at Temple University, USA, delivered a lecture titled “Computation as a Route to Understanding & Discovery in Chemistry” on 10th February, 2025
 - Prof. Herbert Huppert, Professor of Theoretical Geophysics at the University of Cambridge and the current Prof. N.R. Kamath Visiting Chair Professor at IIT Bombay, delivered a lecture titled “Particle-driven Flows: In Theory, in Environment and in Laboratory Experiments” on 26th March, 2025
 - **Prof. C. N. Rao Lecture series:** Prof. R.S. Sampath, Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bengaluru, delivered a lecture titled “Nanostructured Materials and Interfaces in Electrochemistry” on 28th October, 2024

STRATEGY

The Office of Dean Strategy, established in July 2022, is the first-of-its-kind in the IIT system, focusing on strategic initiatives of the Institute. The Office is responsible for developing IIT Bombay's future vision, setting goals, and implementing policies while closely collaborating with all stakeholders in the IIT Bombay ecosystem. It manages the Institute's rankings, conducts leadership programs, collects and analyzes Institute data to facilitate strategic decisions, and serves as a key point of contact for external stakeholders. The Office is also committed to making it easier for other administrative offices to achieve their goals.

The Office this year undertook a massive exercise to develop the Institute Strategic Plan for both

short-term and long-term. For this purpose, the Institute in August 2024 constituted a thirteen-member committee, the Institute Strategic Planning Committee (ISPC), convened by Dean Strategy and tasked with developing the strategy plan and roadmap for IIT Bombay for the next 5, 10 and 20 years.

Over six months, ISPC discussed and deliberated for hours in meetings, soliciting ideas from all the stakeholders in the system – Deans, Heads of Departments, Associate and Assistant Professors. The ISPC is in the process of preparing the document and will release it soon.

Dean Strategy also convenes the Institute Strategic Advisory Council (ISAC) meetings, comprising



Brainstorming Session for IIT Bombay Strategy Plan 2030 and Beyond, conducted on November 30, 2024.



NFLP 2025 Indian Institute of Technology Bombay



1st Row L to R - Dr. Aparna Saraf, Dr. Manju, Dr. Arati Upadhyay, Dr. Radhakrishna Batule, Dr. Bhavani Boddeda

2nd Row L to R - Dr. Ganesh Andhale, Dr. Vaishali Satpute, Dr. Pavan G S, Dr. R Sivaramakrishnasimha, Dr. Vedika Saxena, Dr. Sachin Kore, Dr. Tamal Das, Dr. Dhurke Kashinath

3rd Row L to R - Mr. Duvannadhan Nadar, Dr. Srivathsan Vasudevan, Dr. Manish Goyal, Dr. Rakesh Kumar, Dr. Suman Acharjee, Dr. Surya Prakash Ramesh, Dr. Pradip Roy, Dr. Chinnaiah PM, Dr. Arun Shettigar, Dr. Sanjiv Kumar, Dr. Bibhuti Mishra

4th Row L to R - Dr. Sunitha S, Dr. Prakash Nanthagopalan, Dr. Ravindra Gokhale, Dr. Amit Joshi, Dr. Sawant Suraj, Dr. Mayavan Viji, Dr. Selvaraj R S, Dr. Preeti Navaneeth, Mr. Anil Yadav, Dr. Nitai Maji, Dr. Yugesh Kharche, Dr. Dinesh Chahal

5th Row L to R - Mr. Manas Gupta, Prof. Virendra Sethi, Prof. Milind Atrey, Prof. Krishna P Kaliappan, Prof. K V Krishna Rao, Prof. Shiva Gopalakrishnan, Mr. Saurabh Sushil More

esteemed alumni, professors and industry professionals. The Council deliberated and recommended actions on various strategic issues – strategy plan, international relations, alumni and corporate relations – after discussions with respective Deans and Professor-in-Charge (PiCs). Dean Strategy placed these recommendations to higher-level committees for deliberation and action.

This year, the Office organized two successful Nurturing Future Leadership Programs (NFLP), training over 76 teachers poised to become future leaders. The coveted NFLP, a five-day residential

program, is part of the Malviya Mission Teacher Training Program, conceptualised by the Ministry of Education, Government of India and aims to nurture faculty, especially at the early stage in their career, to lead the country and the world in future.

The Office of Dean Strategy seamlessly organized the program, from inviting nominations from the public and private universities, planning boarding and lodging, developing the program schedule and inviting the speakers. The programs received excellent feedback from all the participants.

The Office managed the participation in the national and international Institute rankings, collecting the required data from offices, centres, schools and departments across the Institute and submitting it to the agencies.

Sr. No.	2022		2023		2024		2025		2026	
	Int.	Nat.	Int.	Nat.	Int.	Nat.	Int.	Nat.	Int.	Nat.
1	QS World University Rankings									
	177	1	172	1	149	1	118	1	129	2
2	QS World University Rankings by Subject (Engineering and Technology)									
	65	1	47	1	45	1	45	1	28	2
3	QS University Rankings - ASIA									
	42	1	40	1	40	1	48	2	-	-

The Office is also proactive in preparing reports and presentations and providing the latest updates on the strategic initiatives of the Institute. The Dean Strategy regularly provided updates and presented the rankings analysis to different committees in the meetings to solicit suggestions and ideas.

The Office oversees the coordination of the Institute Innovation Council (IIC), a program instituted by the Ministry of Education, Government of India, to nurture innovation and entrepreneurship among students through various events and activities.

IIT Bombay's Rank in NIRF

Category \ Year	2021	2022	2023	2024	2025
Overall	3	3	4	3	3
Engineering	3	3	3	3	3
Management	10	11	10	10	14
Research*	3	4	4	4	4
Innovation	2#	2#	7	1	2

* Research category in NIRF started in 2021.

Atal Ranking of Institutions on Innovation Achievements (ARIIA) is renamed as 'NIRF-Innovation' ranking.

This year, IIT Bombay jumped to a four-star rating from a one-star rating held previously, a testimony to the combined efforts put in by this Office and other students and staff.

The Council organized several events and workshops like National Entrepreneurship Day, Design Thinking and Innovation Design, Managing Technological Innovation, AI for Entrepreneurs. Guest lectures and fireside chats by renowned personalities on topics from innovation and deep tech to clean energy were part of the program this year. Several competitions and bootcamps gave the opportunity to participants to develop, hone and test their skills.

The Office maintains an up-to-date repository of all relevant Institute data, including students under different programs and streams, faculty under different levels of professorship, research and publications and intellectual property data. This repository provides valuable insights to the Dean Strategy for decision-making.

The Office of Dean Strategy has become a pivotal part of the administration and serves as a cohesive force, aiding collaboration across all offices in the Institute. The Office is enthused and full of energy and will keep doing its best to help IIT Bombay achieve its future goals and become one of the topmost institutes in the world.

PLACEMENT

The Placement activities at IIT Bombay were conducted throughout the year from July 2024 to June 2025. Similar to that of earlier years, 2024-25 season too witnessed a large number of companies across multiple sectors recruiting from IIT Bombay. Key statistics pertaining to Placement season 2024 - 25 is presented in Table 1 below:

Table1: Highlights of Placement Season 2024-25

Key Metric	Details
Total Number of Registered Students	2469
Total No. of Participated Students in both phases	2040
Total Number of Accepted Offers	1422
International Job Offers accepted	65
Total Companies Participated	417
Total Number of Companies offering jobs	368
PPO's accepted	260
Average CTC Salary Lakhs per annum (in Rs.)	Rs. 26.45
Median CTC Salary Lakhs per annum (in Rs.)	Rs. 20
Top Recruiting Sectors	Engineering: 429 Information Technology: 393

There was a marginal increase of approximately 2% in the number of registered students this year compared to the 2023–24 placement season. The number of Pre-Placement Offers (PPOs) remained consistent with the previous year.

The total number of accepted job offers was around 3.5% lower than last year. This slight decline can be attributed to a few companies extending fewer offers than in the previous season. Despite the decrease in the number of offers, both the average and median CTC have increased by approximately 10%. A total of 1,272 students were placed during the first phase in December 2024, while 150 were placed in the second phase. All programs were well received. A high proportion of B.Tech. and Dual Degree (B.Tech. + M.Tech.) students receiving offers suggests that these programs continue to be in strong demand among recruiting companies.

Recruiter's Profile and Overall Statistics

The IIT Bombay Placement Cell proudly notes that the sectors participating in the placements for the academic year 2024–25 included, but were not limited to, Core Engineering, Information Technology, Software Development, Research and Development, Consulting, Finance, Banking, High-End Technology, and Technical Services. Typical core engineering companies represented sectors such as aerospace, automotive, battery technology, civil, chemical, drone technology, electrical, energy, environmental, mechanical, marine, machinery, mining, materials, petroleum, semiconductors, and solar energy. These companies had a global presence, spanning multiple countries.

The 65 international offers received by IIT Bombay students came from firms based in Japan, Taiwan, Europe, the Middle East, Southeast Asia, and the USA. In the engineering sector, 96 core engineering companies made a total of 429 offers, all for entry-level positions. In the Information Technology (IT) sector, 124 companies extended job offers to 393 students, with 99 of these companies offering software roles to 320 students. An average of ~4.5 positions per company in the engineering sector suggests that these firms may have had a higher number of openings compared to those in the IT sector. Recruitment by consulting firms showed an upward trend in terms of the number of offers compared to last year. However, the number of offers from the finance sector—which typically includes banking, quantitative finance, high-frequency trading, and fintech companies—remained largely unchanged.

Prominent job profiles during this placement season included Artificial Intelligence, Machine Learning, Product Management, Mobility, 5G, Data Science and Analytics, and roles in the Education sector. While 19 students secured positions at design companies, the education sector, comprising 13 companies, extended only 34 job offers. The Research and Development (R&D) sector made significant inroads this season. Companies working in areas such as Automation, Energy Science, Battery Technology, Chemical and Mechanical Research, Energy Efficiency Solutions, Application Development, Materials Research, Semiconductors,

Power Electronics, AI/ML, and Research Laboratories collectively offered 72 positions.

Overall placement statistics classified into Indian companies, multinationals in India and companies outside India in Table 2 below.

Table 2: International vs domestic company count

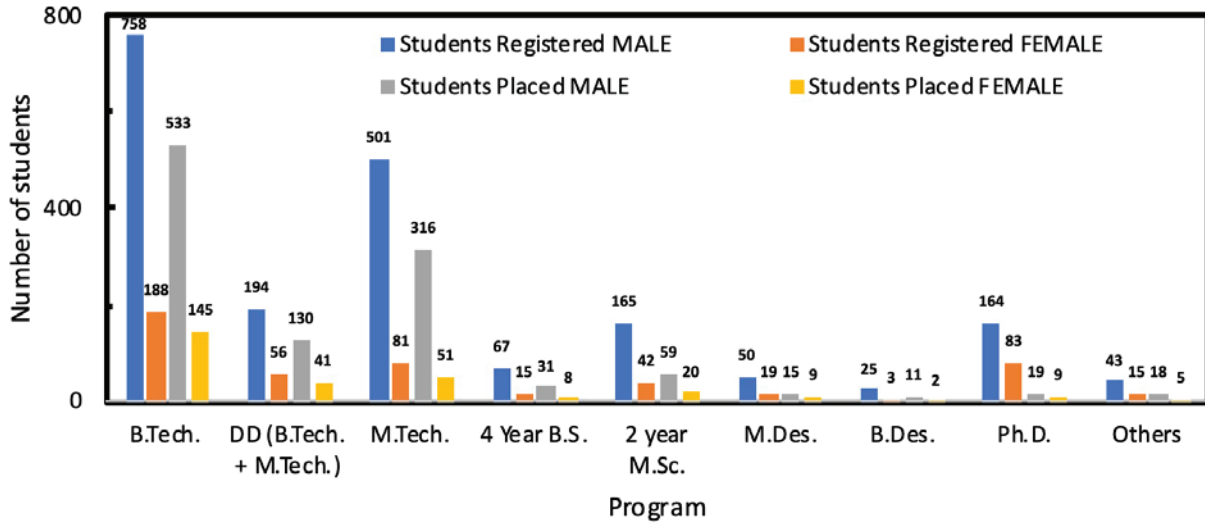
Placement Outside India	65
Placements in MNC's in India	840
Placements in Indian Companies	517
Total	1422

Program-wise placement statistics

IIT Bombay offers 17 unique academic programs and the program-wise placement statistics for the academic year 2024–25 are presented in Table 3. Additionally, Figure 1 illustrates the level of gender parity among students registered and placed across a selection of programs. A key highlight is the high placement rate for the B.Tech and Dual Degree (B.Tech + M.Tech) programs, despite a large number of registered students. It is important to note that not all registered students participated in the placement process, possibly indicating that some pursued alternative avenues such as entrepreneurship or higher studies. The relatively low placement numbers for the Ph.D. program may be attributed to students typically opting for other opportunities, such as postdoctoral fellowships. IIT Bombay conducts an exit survey for graduating students across all programs, the results of which may offer insights into the alternative career paths considered beyond campus placements.

Table 3: Program-wise 2024 – 25 placement data including PPOs

Program	Registered	Participated	Placed	Percentage placed
B. Tech	946	829	678	81.79 %
M. Tech	582	508	367	72.24 %
Dual Degree (B. Tech. + M. Tech)	250	214	171	79.90 %
Ph.D.	229	135	26	19.25 %
M.Sc.	207	162	79	48.76 %
B.S.	82	69	39	56.52 %
M. Design	69	45	24	53.33 %
B. Design	28	19	13	68.42 %
M.S. by Research	23	17	14	82.35 %
Dual Degree (M.Sc. + Ph.D.)	13	10	1	10 %
M.P.P.	13	9	6	66.67 %
Dual Degree (B.Des. + M.Des.)	10	6	1	16.67 %
M.S. by research (Exit Degree)	7	7	1	14.28 %
Dual Degree (M. Tech. + Ph.D.)	5	5	1	20 %
M.A. by Research	2	2	0	0
Dual Degree (B.S. + M.Sc.)	2	2	0	0
Dual Degree (B.S. + M. Tech.)	1	1	1	100 %
Total	2469	2040	1422	69.70 %

Figure 1: Program-wise gender parity

Department-wise placement statistics

IIT Bombay currently has 17 departments and 11 centers offering a academic degree programs. The department/center-wise consolidated placement statistics for the academic year 2024–25 are presented in Table 4. Traditional disciplines such as Computer Science and Engineering and Electrical Engineering recorded high placement rates, as expected. Notably, a significant proportion of students from relatively newer disciplines at IIT Bombay — such as Policy Studies — also secured placements, indicating a positive trend in job availability for these emerging fields.

Table 4: (A) Department- and Center-wise placement statistics for Academic year 2024 – 25. Data presented are as of 30 June 2025. Program-wise information is in Annexure I.

Department / Centre	Registered	Participated	Placed
Department of Aerospace Engineering (AE)	115	90	54
Applied Statistics and Informatics (Department of Mathematics)	40	38	32
Department of Bioscience and Bioengineering (BSBE)	64	39	15
Centre for Policy Studies (CPS)	14	10	6
Centre for Urban Science and Engineering (CUSE)	7	7	3
Department of Chemical Engineering (ChE)	161	136	98
Department of Chemistry	69	47	24
Department of Civil Engineering	210	178	133
Centre for Climate Studies	1	1	0
Centre for Research In Nanotechnology and Science (CRNTS)	15	8	0
Department of Computer Science Engineering (CSE)	293	277	258
Department of Earth Sciences	72	59	10
Department of Economics	34	30	18
Centre for Educational Technology	6	6	6
Department of Electrical Engineering (EE)	346	293	244
Engineering Physics (Physics Dept.)	54	39	24
Department of Energy Science and Engineering	69	56	36
Department of Environmental Science (DESE)	48	40	27
Geo-informatics and Natural Resources Engineering (CSRE)	30	25	11
Department of Humanities and Social Sciences (HSS)	2	2	0
Industrial Design Centre (IDC)	107	70	38

Industrial Engineering and Operations Research (IEOR)	41	39	25
Department of Mathematics	42	34	19
Department of Mechanical Engineering (ME)	334	289	213
Department of MEMS (Metallurgical Engg and Materials Science)	209	166	97
Department of Physics	49	31	8
Centre for Systems and Control Engineering (SYSCON)	5	5	4
CTARA (Technology and Development)	24	18	15
Koita Center for Digital Health (KCDH)	5	5	5
Centre for Machine Intelligence & Data Science (cMINDS)	31	18	17
Other Programs	8	7	4
Total	2505	2063	1444

A large number of companies made offers to various departments and centers at IIT Bombay, as shown in Table 5. A comparison between the number of students placed in each department/center and the number of companies offering jobs in these academic units (both presented in Table 5) clearly indicates that many companies made multiple offers to students within the same academic unit.

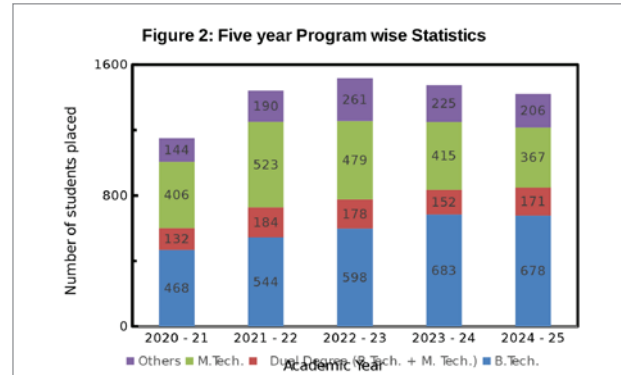
Table 5: Department/ Center-wise number of companies offering jobs. Company making offers to multiple departments/centers are accounted for in all of them.

Department / Center	Number of companies offering jobs
Department of Aerospace Engineering (AE)	43
Applied Statistics and Informatics (Department of Mathematics)	17
Department of Bioscience and Bioengineering (BSBE)	10
Centre for Policy Studies (CPS)	4
Centre for Urban Science and Engineering (CUSE)	2
Department of Chemical Engineering (ChE)	61
Department of Chemistry	22
Department of Civil Engineering	66
Department of Computer Science Engineering (CSE)	107
Department of Earth Sciences	6
Department of Economics	15
Centre for Educational Technology	4
Department of Electrical Engineering (EE)	105
Engineering Physics (Physics Dept.)	24
Department of Energy Science and Engineering	25
Department of Environmental Science (DESE)	20
Centre for Machine Intelligence and Data Science	4
Geo-informatics and Natural Resources Engineering (CSRE)	9
Centre for Systems and Control Engineering (SYSCON)	4
Industrial Design Centre (IDC)	24
Industrial Engineering and Operations Research (IEOR)	18
Department of Mathematics	14
Department of Mechanical Engineering (ME)	114
Department of MEMS (Metallurgical Engg and Materials Science)	67
Department of Physics	6
CTARA (Technology and Development)	12
Total	803

Five years comparison of Placement statistics

The five-year placement analysis for IIT Bombay, shown in Figure 2, indicates that placements have remained fairly stable in the post-pandemic period, with a peak of 1,516 placements in the year 2022 – 23. It is important to note that the "Others" category in Figure 2 includes all programs such as M.Sc., Ph.D., M.S. by Research, B.Des., M.Des., I.D.D.P., and M.P.P. There has been a steady increase in placements for the B.Tech. program over the past four years, with the number for AY 2024–25 being very close to that of the previous year. The Dual Degree programs (B.Tech. + M.Tech.) have also been well received,

with a peak in AY 2021–22. However, placements for M.Tech. and Ph.D. students have declined this year compared to the previous two years.



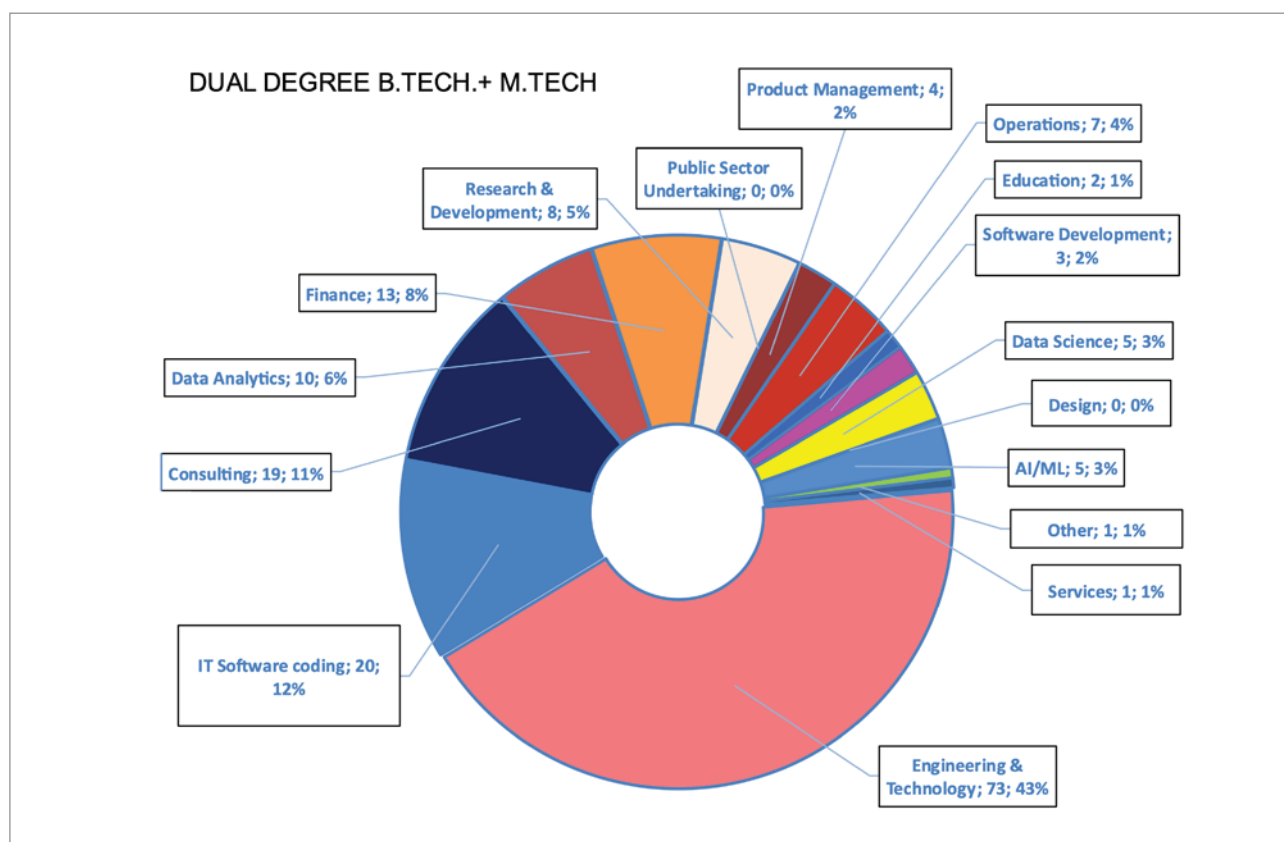
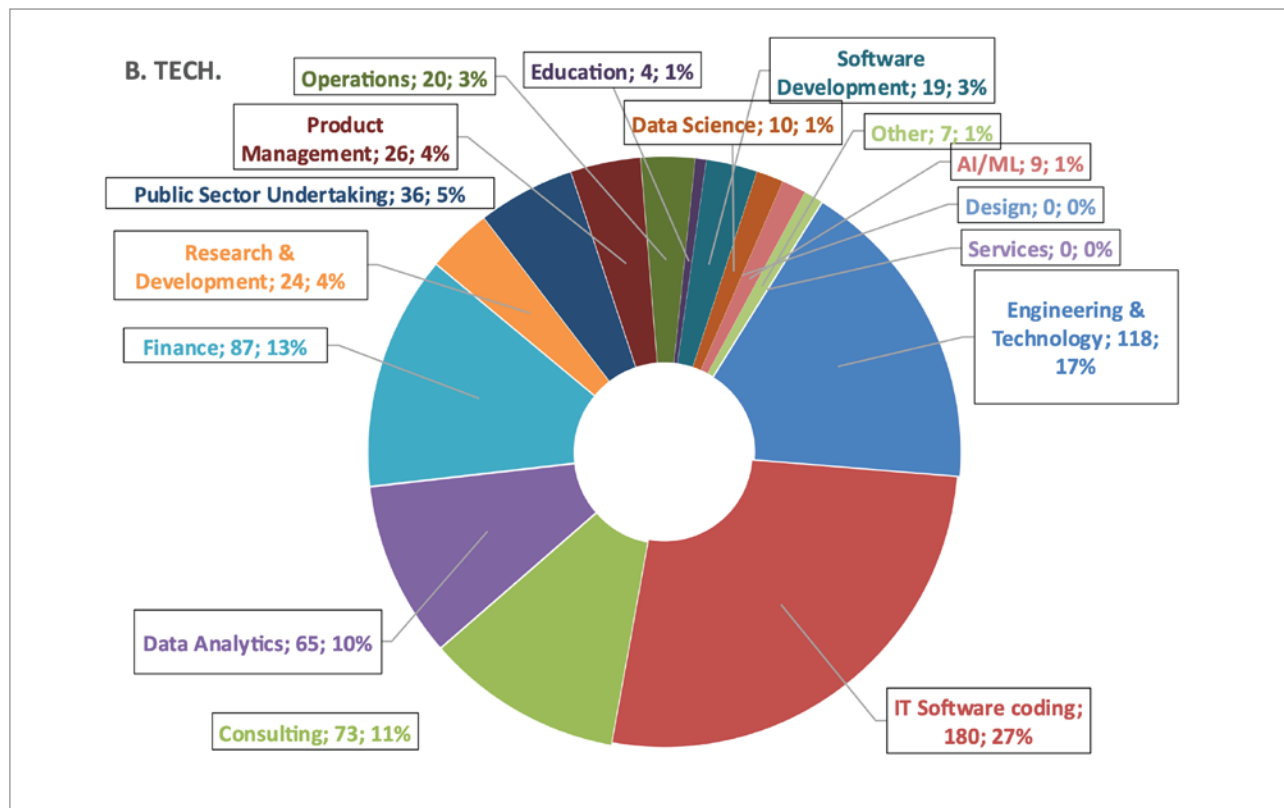
Sector-wise statistics and offers for different programs

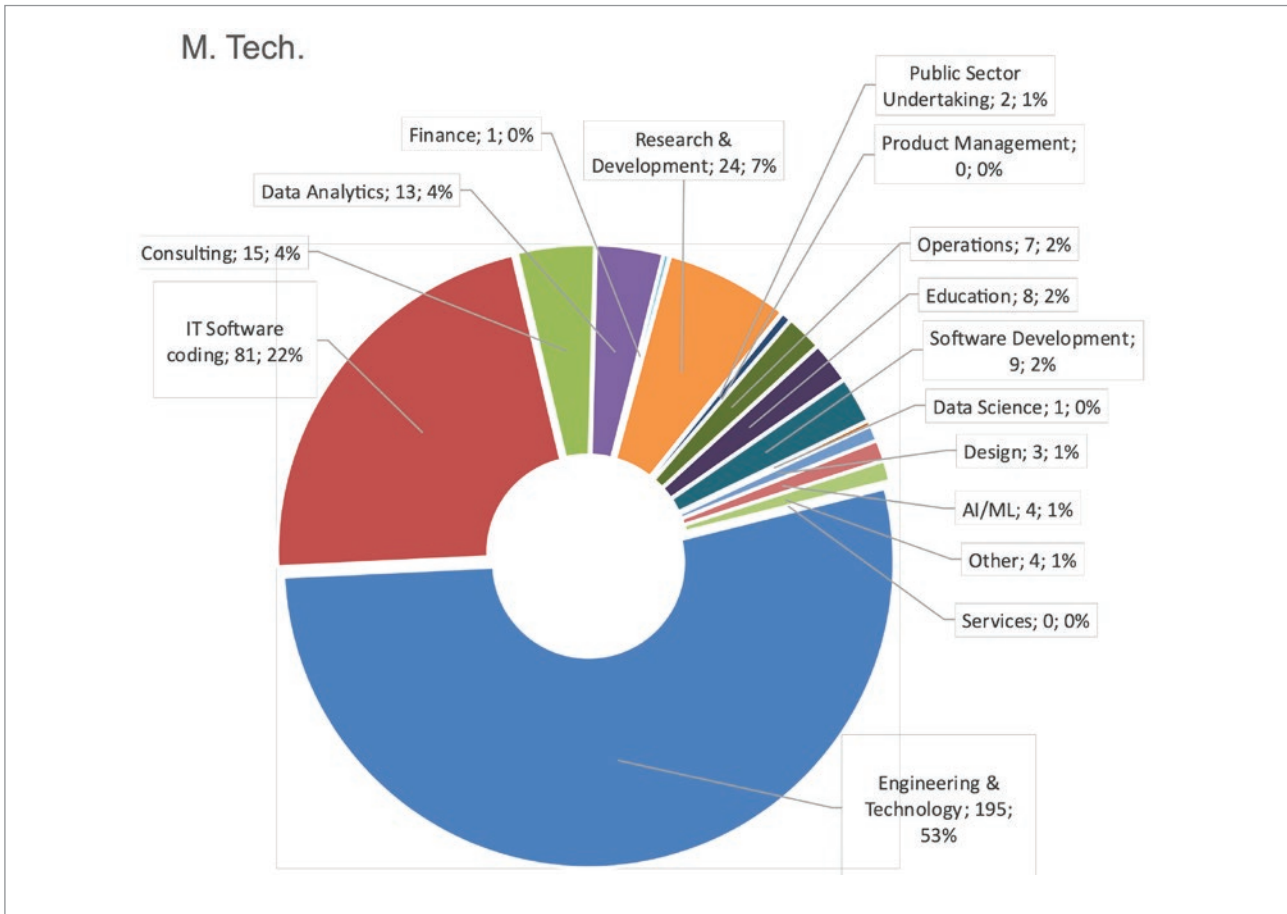
The sector-wise statistics and the consolidated number of offers for different programs are in Table 6. Besides, pie-charts showing the sector-wise distributions of placements of a few programs (namely B.Tech, Dual-degree (B.Tech+M.Tech), M.Tech) are presented in Figure 3.

Table 6: Sector-wise statistics, Number of total offers for different programs. Dual-degree includes B.Tech+M.Tech and B.Tech+IDDDP

Sectors	B.Tech.	Dual Degree	M.Tech.	Other Programs	Total
Engineering & Technology	118	73	195	43	429
IT Software coding	180	20	81	35	316
Consulting	73	19	15	19	126
Data Analytics	65	10	13	26	114
Finance	87	13	1	11	112
Research & Development	24	8	24	16	72
Public Sector Undertaking	36	0	2	3	41
Product Management	26	4	0	5	35
Operations	20	7	7	0	34
Education	4	2	8	20	34
Software Development	19	3	9	2	33
Data Science	10	5	1	6	22
Design	0	0	3	16	19
AI/ML	9	5	4	0	18
Other	7	1	4	4	16
Services	0	1	0	0	1
Total	678	171	367	206	1422

Figure 3: Distribution of sectors in which students were placed for B.Tech, Dual degree (B.Tech + M.Tech) and M.Tech





Salary Statistics

The average and median salaries, based on CTC, for the 2024-25 placements at IIT Bombay are Rs. 26.45 LPA and Rs. 20 LPA, respectively (Table 7). A comparison with the previous two years shows an increasing trend, with both median and average salaries rising by over 10%. This upward trend likely reflects the growing value that companies place on graduates from IIT Bombay

Table 7: Average Salary, International and Pre-Placement Offer Details

Department	A.Y. 2024 – 25	A.Y. 2023 – 24	A.Y. 2022 – 23
Median Salary (CTC, in LPA*)	Rs. 20.00	Rs. 17.92	Rs. 16.66
Average CTC (in LPA*)	Rs. 26.45	Rs. 23.50	Rs. 21.82
Total Number of International Offers	65	78	65
Total Number of Pre-Placement Offers	260	258	194

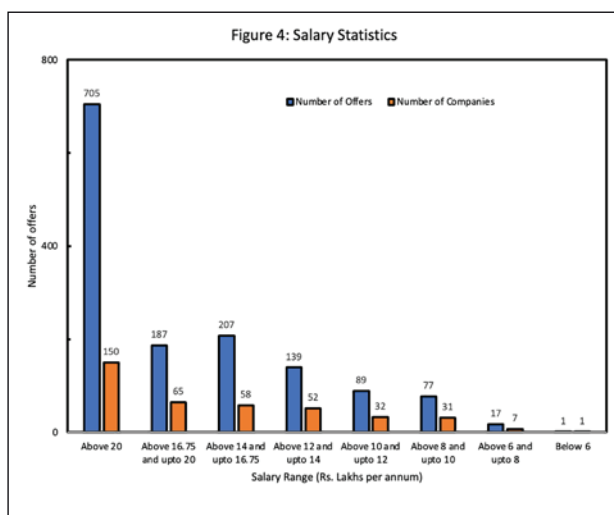
**LPA = Lakhs Per Annum (in INR).

The distribution of salaries (CTC) offered to graduating students across different ranges is presented in Table 8 and Figure 4. The number of offers in the highest range (> 20 LPA) has increased by ~26% compared to AY 2023-24. Additionally, the number of companies making offers above Rs. 20 LPA has risen from 123 in AY 2023-24 to 150, an increase of about 22%. These figures further corroborate the growing value that companies place on IIT Bombay graduates.

Table 8: Placement Salary details based on compensation including PPOs. Note that a company may make offers in different salary range, and in such cases these have been accounted for in all ranges in which the company offered a job.

Range of CTC salary (in INR) (Lakhs per annum)	Number of Accepted Offers	Number of Companies
Above 20	705	150
Above 16.75 and up to 20	187	65
Above 14 and up to 16.75	207	58
Above 12 and up to 14	139	52
Above 10 and up to 12	89	32
Above 8 and up to 10	77	31
Above 6 and up to 8	17	7
Below 6	1	1
Total	1422	396*

*The actual number of companies is 368. Some companies offer different salary for the same position, subject to the degree of the candidate.



PhD Placement 2024 - 25

A comparison of this year's PhD graduating students' placement statistics with those of the previous year (AY 2023-24) is presented in Table 8 below. While the number of students seeking placements increased compared to the previous

year, there has been a decrease in the number of placements, despite a marginal increase in the average salary offered. Graduating PhD students often pursue other opportunities such as postdoctoral fellowships and start-ups. The exit survey of graduating students may provide insights into the paths taken by these students.

Table 9: PhD Placement statistics for A.Y. 2024- 2025

Particulars	PhD Placements Statistics 2024 - 2025	PhD Placements Statistics 2023 - 2024
Registered Students	247	244
Active Participants	150	118
Accepted Offers	28	32
Average Package	INR 19.64 LPA	INR 18.46 LPA
Percentage of Offers to Active Applicants	18.66 %	27.11%

Internships 2024 - 25

Internships undertaken by students contribute to placements through Pre-Placement Offers (PPOs). Students pursue internships in industry or academia to gain exposure, experience, and broaden their skill sets. Summer internships typically begin in May and continue until mid-July, while winter internships are usually completed in December. Department- and center-wise accepted internship statistics for the last four years are presented in Table 9 below. Some departments/ centers, such as Chemical Engineering, have shown an increasing trend.

Companies from various business sectors offer internship positions to IIT Bombay students. The number of summer internship offers generally exceeds those in winter. Students from the Computer Science Engineering department secured the most internships. These internships span a wide range of domains, including advanced software programming in Big Data, IoT, AI and ML, R&D, and consulting.

Department	2021 - 22	2022 - 23	2023 - 24	2024 -25
Aerospace Engg.	58	54	40	57
Chemical Engg.	112	108	138	144
Chemistry	19	7	35	8
Civil Engg.	85	60	118	87
Computer Science Engg.	252	273	242	203
Electrical Engg.	176	179	169	160
Engineering Physics	38	44	45	20
Energy Sc. And Engg.	20	25	32	18
Mechanical Engg.	155	171	217	131
MEMS	86	72	102	46
Other courses	194	111	129	126
Total		1,195	1,104	1,260

Conclusion

Placement activities at IIT Bombay in the Academic Year 2024-25 have been vibrant, with a significant proportion of graduating students securing offers from companies. Several international and multinational companies operating in India recruited students from all programs. The overall placement percentage stands at around 70%. Salaries offered have increased compared to the previous year, with over a 10% rise in both average and median salaries (on a CTC basis). Additionally, there is a notable increase of approximately 20% in the number of students placed in the top salary bracket of Rs. 20 Lakh and above. These positive

trends clearly demonstrate that IIT Bombay continues to be a preferred destination for many companies for recruitment.

Several of the remaining students opt to pursue other opportunities such as entrepreneurship or higher studies. IIT Bombay conducts an exit survey of graduating students, the results of which are expected to provide insights into the proportion of students pursuing paths beyond those facilitated by the Placement Cell. It is anticipated that the exit survey data will supplement this report and be included in a revised version in the near future.

IIT BOMBAY RESEARCH PARK FOUNDATION



Applied Science Park for Innovation, Research and Entrepreneurship (ASPIRE), the Research Park Foundation at IIT Bombay continues to serve as a dynamic bridge between academia and industry. This bridge is both metaphorical, enabling research-led partnerships and tangible, through a dedicated space for R&D-driven companies within the IIT Bombay campus. 2024–25 was a year of progress, purposeful engagements and growing national and international collaborations.

A long-anticipated moment came with ASPIRE's full transition into its newly constructed Research Park building. This milestone marks the beginning of a new chapter - the facility acts as the central hub for driving deep-tech innovation and fosters interdisciplinary partnerships.

Outreach and Ecosystem Engagement

ASPIRE continued to expand its footprint as a catalyst for industry-academia engagement, innovation and infrastructure-led collaboration throughout the year. In September 2024, ASPIRE participated in a roadshow organised by MCCIA in Pune, presenting opportunities at the Research Park to regional industries and startups. This outreach furthered visibility among Maharashtra's industrial clusters.

International and Governmental Collaborations

In October, ASPIRE partnered with JETRO Mumbai and the IIT Bombay Placement Cell to co-host a Joint Career Fair featuring top Japanese companies such as Panasonic, Hitachi, Kansai Nerolac and Idemitsu Lube. The event witnessed participation from over 600 students, fostering strong academic-industry linkages and career exploration in global

markets. November and December saw visits by senior officers from the College of Defence Management, Secunderabad, who explored the potential for collaboration in defence-oriented R&D and innovation.

National Engagements and Student Interface

In February, student cohorts from IIM Mumbai visited ASPIRE as part of their infrastructure project management curriculum, gaining insights into real-world planning, monitoring and implementation processes.

Campus-led Events and Infrastructure

In March 2025, ASPIRE partnered with the IIT Bombay Innovation Council to host the Women's Day Innovation Walk across the campus, featuring a keynote by Ms. Kameshwari Mangalampalli (COO, ASPIRE). The month also witnessed the Hamari Laado NEEV initiative, which brought together over 2,500 young girls from more than 100 villages for a 5K run, blending wellness, community engagement and innovation awareness. To enhance daily amenities, ASPIRE inaugurated Dietico, a food kiosk, on its 10th floor, offering diverse food options for the campus community.

Strategic Events and Industry Forums

The year was marked by several strategic events, including on boarding IHI Corporation as a new member, initiating promising collaborations in infrastructure, clean energy and manufacturing in January 2025. The second edition of the SemiX Summit in November convened stakeholders from academia, government and industry, with keynotes by Prof. Shireesh Kedare and Shri S. Krishnan.

Discussions focused on semiconductor policy, entrepreneurship and workforce development. In December, TechConnect 2024 was inaugurated by Dr. Samir Kamat (Secretary, DRDO), offering a new platform for IIT Bombay departments to present innovations and interface with industry.

Membership Growth and Partnerships

ASPIRE continued to strengthen its network with new associate members, including Tokyo Electron Limited, Mercedes Benz, IHI Corporation, Welspun, HUBBLEHOX and ROHM. Current and potential future resident members include major corporations such as TATA Steel, Unilever, Hindalco and Deloitte.

Research Support and Strategic Proposals

Several initiatives and partnerships highlighted ASPIRE's commitment to research-led collaboration. IIT Bombay's undergraduate team made a remarkable return to the iGEM Grand Jamboree 2024 in Paris, winning a Gold Medal and a nomination for Best Climate Crisis Project for their synthetic biology project, CalciCapture. ASPIRE played a key role in facilitating sponsorship for the team.

Furthering its role in national missions, ASPIRE extended strong support to the E-RIDES proposal submitted under the MAHA-EV program of the ANRF. ASPIRE will contribute through forum management and by enabling industry engagement

via its international partnerships. Deloitte also expressed interest in jointly establishing a Quantum Computing Centre with IIT Bombay. While discussions are ongoing, the initiative aims to address real-world problems through advanced computing solutions with considerations for client confidentiality.

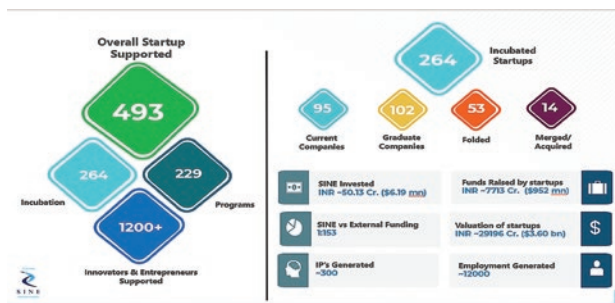
Achievements by Member Companies

ASPIRE's member companies achieved noteworthy success during the year. NeoDocs met with Mr. Bill Gates and Prof. Ajay Kumar Sood, earning recognition for their cost-effective diagnostic solutions. igrenEnergi won the "Next-Gen Mobility" award at the Qatar Innovation Hackathon 2025 and Samsung R&D Institute India had seven papers accepted at ACL and Interspeech 2025, including one co-authored with IIT Bombay. ideaForge secured a ₹137 crore contract from the Indian Army for its UAV platform. Atomberg, a venture founded by IIT Bombay alumni, celebrated surpassing ₹1000 crore in revenue, a milestone that stands as a testament to the innovation culture ASPIRE supports.

The foundation laid in 2024-25 reinforces ASPIRE's role in catalysing research, enabling startups and attracting global industry leaders. With dedicated infrastructure, vibrant collaborations and a commitment to innovation, ASPIRE continues its journey of fostering meaningful partnerships, supporting research excellence and enabling innovation with purpose.

SOCIETY FOR INNOVATION AND ENTREPRENEURSHIP

The Society for Innovation and Entrepreneurship (SINE) at IIT Bombay is one of the India's leading technology business incubators, with a legacy of supporting promising startups in its state-of-the-art facility for over 21 years. SINE has achieved an impressive 80% survival rate for its startups. SINE being sector agnostic has nurtured startups across various business areas and domains like DeepTech, Healthcare, Electronics, Defense, Power, Fintech, Entertainment, E-commerce, Security and surveillance etc. Additionally, SINE has also been instrumental in mentoring many new and upcoming incubators and in policy advocacy. As a DST-NIDHI Centre of Excellence, SINE has been fully operational since July 2023 and currently houses over 60 startups within its physical incubation facility. It also hosts the BIONEST incubator to support life sciences and med-tech space startups.



SINE has made a remarkable and measurable impact by successfully incubating over 262 dynamic startups through both physical and virtual modes. At present, SINE actively supports 94 high-potential startups via incubation, and an impressive 102 startups have graduated, many of which have scaled into prominent businesses. This showcases the strong market relevance and technological excellence nurtured at SINE. Notably, SINE is the first academic incubator to have a public (IPO) and unicorn in its foray.

In addition to incubation, SINE also implements various government programmes and serves as a national Program Management Unit (PMU) for some programmes.

To date, SINE has successfully managed over 50 programmes cumulatively. These include prominent initiatives such as IIT Bombay IoE, DST NIDHI (PRAYAS, EIR), MeitY TIDE 2.0 (EIR, Grant, Scale-

Up), BIRAC BIG and iDEX, among others. Through these programmes, SINE has supported more than 500 startups and innovators, collectively impacting over 700 entrepreneurs across the country.

Government programs and funds managed by SINE:



KEY HIGHLIGHTS OF THE YEAR: 20 YEARS OF ENTREPRENEURIAL EXCELLENCE!



SINE celebrated 20 years of entrepreneurial excellence with an event themed “*Innovation Nation: Leveraging India's Talent and Entrepreneurial Spirit*” during 28th-29th November, 2024. The event brought together visionaries to discuss India's potential to lead global innovation. It featured inspiring fireside chats with industry thought leaders, expert panels sharing insights on disruptive technologies, stories of trailblazing entrepreneurs who dared to disrupt and a nostalgic journey through SINE's

20 years of nurturing innovation.

➤ DST – NIDHI 8-YEAR MILESTONE:

SINE, as the PRAYAS Program Management Unit, facilitated with the Department of Science and Technology (DST) to showcase the program achievement and the book launch – “*From IDEAS to IMPACT: 50 STARTUPS Nurtured Under NIDHI PRAYAS*” during their event DST Startup Utsav ‘NIDHI IMPACT @8’.



➤ **ImmunoACT – CAR-T Cell Therapy:**

Honourable President of India Smt. Droupadi Murmu dedicated the groundbreaking anti-cancer CAR-T cell therapy, NexCAR19 developed by ImmunoACT (a startup incubated and supported by SINE at IIT Bombay) to the nation. This marks a significant milestone in India's biotechnology and healthcare innovation landscape, offering a cutting-edge, indigenous solution for treating certain types of cancer. The recognition underscores the critical role of academic incubators like SINE in nurturing deep-tech healthcare startups with global impact.

➤ **SINE CONNECTX – Exclusive Networking Event:**



SINE IIT Bombay hosted SINE CONNECTX on 22nd February, 2025, an exclusive networking event designed to foster over 100 impactful connections between startups and industry leaders, investors, and experts from diverse sectors including fintech, pharma, banking, and consulting, alongside IIT Bombay alumni. The event focused on creating collaborative partnerships to fuel startup growth and innovation. With engaging discussions and enthusiastic participation, several delegates expressed keen interest in mentoring and supporting startups across various functions.

INCUBATION:

SINE's 'Start to Scale' support spans the entire startup journey—from pre-incubation to acceleration—offering access to diverse funding opportunities. Since its inception, SINE has supported a total of 262 companies, with 29 startups successfully incubated in 2024–2025.

PROGRAMS AT SINE

PROGRAM MANAGEMENT UNIT

SINE continues to act as the Program Management Unit (PMU), as nominated by the Department of Science and Technology (DST), Government of India,

for the nationwide implementation of the NIDHI-PRAYAS program. SINE has so far overseen the implementation of 5 fund cycles of the PRAYAS program through 57 PRAYAS Centres and remains actively involved in monitoring and mentoring these centres. Currently, the sixth cycle of the PRAYAS Program has commenced in the third quarter of FY 2024-25.



IIT Bombay IoE:

The IIT Bombay–IoE (Institution of Eminence) initiative aligns with the National Innovation and Startup Policy (NISP) 2019, aiming to foster innovation and entrepreneurship within the IIT Bombay community—students, alumni, faculty and staff by providing structured financial and infrastructural support. The program actively supports the Idea-PoC stage and translational research-based ventures. The funding structure includes grants of ₹6–9 lakhs per innovator or startup at the idea/ PoC stage. For ventures ready to scale, the program offers Translational Research Support (TRS) ranging from ₹30–50 lakhs. Till now SINE has supported 60+ innovators under the initiative of IoE grant mobilizing fund of 4.5+ cr.

PROJECT TITANIUM

Project Titanium is IIT Bombay's flagship initiative designed to convert cutting-edge academic research into high-impact, scalable ventures. Recognizing the challenges researchers face in navigating the path from lab to market, such as limited industry access, funding gaps and commercialization barriers.

Titanium offers a comprehensive support ecosystem such as Grant Funding, Expert Mentorship, Co-Founder Matchmaking, Flexible Equity Structures and Deep Industry Linkages. The program is tailored to each team, providing personalized guidance and strategic resources to help innovators succeed as entrepreneurs. By fostering entrepreneurship within the academic community, Project Titanium empowers researchers to build impactful startups that address real-world challenges, drive societal benefit and strengthen India's innovation economy.

PRE INCUBATION PROGRAMS AT SINE

SINE has been successfully implementing prototyping grant and fellowship programs of various government departments like – the Department of Science and Technology (DST), the Department of Biotechnology (DBT), the Ministry of Electronics and Information Technology (MeiTY) etc. These prototyping and entrepreneurial fellowship grants support aspiring or budding entrepreneurs in pursuing a promising technology business idea and help convert their ideas into prototypes. The outcome of these programs focuses on startup formation, prototype/ product development, fund raising etc.

◆ Fellowship Programs:

- **DST NIDHI-EiR** - Successfully implemented five cycles of the NIDHI-EiR program, supporting 50 entrepreneurs with a cumulative sanctioned fund of ₹1.75 crore. During the year, 8 EiRs graduated from the program.
- **MeiTY TIDE 2.0** - Successfully implemented three cycles, overall 19 innovators were supported with a cumulative sanctioned fund of ₹76.00 L. During the year, 7 MeiTY EiRs graduated from the program.

◆ Prototyping Grants:

- **NIDHI-PRAYAS** - Completed the implementation of five cycles. Overall 66 startups/ innovators were supported under this program with a cumulative sanctioned fund of ₹5.00 cr. During the year, five startups/ innovators successfully graduated, while another five continue to remain active within the program.
- **MeiTY 2.0 grant** - During the year, six grantees graduated from the program. Three cycles have been successfully implemented supporting 22 startups/ innovators with the total funding support of ₹1.44 cr.
- **BIRAC BIG** - SINE as a BIG partner is executing and monitoring the Biotechnology Ignition Grant (BIG) grant from BIRAC across India. Under BIG, SINE has implemented 9 cycles. A total of 52 startups/ innovators have been supported so far. Currently, the 9th cycle is ongoing wherein 26 startups are still being actively monitored.

Impact of SINE programs:

SINE, as a partner incubator for innovations for Defence Excellence (iDEX) by the Ministry of Defence, has supported 49 projects via 35 startups. The program focuses on defence technologies based

on specific problem statements by defence, PSUs and DPSUs. During this time, the team facilitated successful connections between investors and the Startups/ Companies/ MSMEs.

SINE, in collaboration with iDEX Defence Innovation Organization (DIO), held virtual outreach events/ sessions for key initiatives under iDEX such as Defence India Startup Challenge (DISC), Open Challenges (OC), Atmanirbhar Bharat Defence Innovation Talent (ADITI) and DISC-PRIME. These initiatives invite problem statements from the armed forces and provide financial support, structured guidance and incubation to selected participants. The program seeks to develop practical, deployment-ready solutions for the military, encouraging the use of advanced technologies while promoting self-reliance in defence manufacturing and reducing dependence on foreign systems.

FUNDING AND INVESTMENTS

Funding and investment in start-ups associated with SINE till now, (including both current and graduate start-ups) have collectively raised a fund/investment totalling ₹7,713 crores. The collective valuation of these startups now exceeds ₹29,000 crores. Based on this, the ratio of SINE's investment to the total funds raised by startups stands at an impressive 1:153.

SINE has sanctioned approximately ₹28.64 crores across 44 companies, channelled through key initiatives such as IIT Bombay IoE Seed and Leap, IIT Bombay TRA, SIDBI-SINE and SIDBI-iDEX. This support will help startups to scale up their business activities.

EVENTS AND WORKSHOPS:

➤ Investor Connect:



SINE in partnership with MeitY Startup Hub and Inc42 Media organized the 'Investor Connect Programme' at SINE IIT Bombay. With a mix of potential 22 investors and 10 startups supported by

MeitY, the event served as a platform for meaningful engagement and interaction among all stakeholders.

➤ SINE START 6.0 COHORT:



SINE conducted the sixth cohort of SINE START (Startup Training to Achieve Right Target) - Bootcamp for early-stage innovators. The primary aim of this program was to furnish innovators and founders with the essential knowledge and skills crucial for initiating their startup journey.

Spanning over five weeks with a total duration of 30 hours, this intensive program catered to the needs of 16 startups, providing them with invaluable insights and guidance. Throughout the bootcamp, 13 experts and entrepreneurs shared their knowledge through insightful sessions.

➤ Investors Week at SINE:

SINE IIT Bombay hosted the second and third edition of Investors during the year, which successfully connected innovation with investment. These events gathered over 50 esteemed investors and cutting-edge startups, facilitating around 300+ strategic meetings.

➤ Boeing BUILD 4.0 Bootcamp:



SINE IIT Bombay hosted the 4-day Boeing BUILD 4.0 Bootcamp during 28th-31st January, 2025, providing the top 10 startups with invaluable insights from industry experts and renowned speakers. The bootcamp featured insightful sessions on crucial topics and mock pitches to fine-tune presentations before the Regional Finals.

➤ GOOGLE for startups:



Google for Startups conducted a 3-day AI Academy bootcamp at SINE IIT Bombay during 11th-13th November, 2024. The bootcamp empowered early-stage startups to leverage AI, providing tailored curriculum, expert mentorships, hands-on training and networking opportunities.

➤ National Startup Day:



SINE IIT Bombay successfully celebrated *National Startup Day* on 16th January, 2025 with an engaging Masterclass featuring industry leaders. The session offered actionable insights on customer-centric strategies, investor readiness and essential startup compliance. A highlight of the event was a special pitch session, where selected startups presented their ideas to investors, opening doors to potential collaborations.

➤ Beyond Silicon Valley: Sharing Ideas to Support Entrepreneurship:

SINE IIT Bombay hosted “*Beyond Silicon Valley: Sharing Ideas to Support Entrepreneurship*” on 19th July, 2024 at IIT Bombay. Mr. Michael Goldberg shared valuable insights on Silicon Valley's ecosystem and Cleveland's innovative entrepreneurship strategies. An engaging Q&A session followed, offering practical advice and stimulating discussion.



➤ **Global Bio India 2024:**



SINE IIT Bombay participated in the *Global Bio India 2024* held during 12th-14th September, 2024. It is a unique business networking platform for India's biotech R&D innovation and bio-manufacturing ecosystem and international stakeholders. Global Bio - India 2024 showcased India's Biotech growth and opportunities to the world.

➤ **From Idea to Asset: Role of IP in Startup Success:**



On 9th October, 2024, SINE IIT Bombay hosted a workshop on 'From Idea to Asset: Role of IP in Startup Success'. Experts from K & S Partners and IRCC IIT Bombay shared insights on IP protection, management and monetization strategies. Attendees gained a deeper understanding of IP rights, PCT timelines and collaborative IP development between universities and corporations. The workshop fostered active discussions among startup founders, innovators and faculty members.

➤ **PIWOT 2025:**



SINE startups proudly showcased their innovative solutions and products at the PanIIT World of Technology (PIWOT) 2025 held during 17th-19th January, a premier platform for technological excellence. The event enabled our incubatees to demonstrate their cutting-edge ideas, attract industry attention and build meaningful connections with investors, corporate leaders and key stakeholders. PIWOT served as a catalyst for visibility, collaboration and future growth opportunities for our startups.

PARTNERSHIPS AND MOUS SIGNED THIS YEAR

In a year marked by collaboration and strategic growth, SINE deepened its impact by signing around 16 MoUs in FY 2024-25, taking the cumulative no. of MoUs to over 150+ partnerships since inception. These alliances represent more than just formal agreements, they signal a shared commitment to advancing innovation, entrepreneurship and national priorities. Each partnership brings unique strengths to the table, collectively driving the next wave of deep-tech innovation and startup-driven transformation.

Some of the noteworthy collaborations this year include TATA Motors Limited, Panasonic Life Solutions India Private Limited, SBI Capital Markets Limited, HDFC Life Insurance Company Limited, CODISSIA Defence Innovation and Atal Incubation Centre.

AWARDS AND ACCOLADES

➤ **URJANOVAC PRIVATE LIMITED**



1) Urjanovac won the prestigious *Avinya'25 Award* at the “*Energize India*” Conclave, hosted by the Ministry of Petroleum and Natural Gas (MoPNG) and FIPI during India Energy Week 2025 during 11th-14th February, 2025. The award, presented by Hon’ble Minister Shri Hardeep Singh Puri and Shri Pankaj Jain, IAS, recognizes innovation in sustainability and low-carbon technologies under the Atmanirbhar Bharat initiative.

➤ **TRINANO TECHNOLOGIES PRIVATE LIMITED**



1) TriNano Technologies, a solar energy startup, won the following awards:

- 2nd Prize award for World Decarbonization Challenge at Vivatech Paris
- Recognized as the Best Startup in the Solar Sector by MSMECII at Vigyan Bhavan in Delhi on 18th November, 2024

- Received the award for Best Startup in Environmental Sustainability, presented by NASSCOM Foundation in Bangalore
- Selected as one of the winners in the Maharashtra Startup Week 2025 on 20th March

➤ **IDEAFORGE TECHNOLOGY LIMITED**

DUAL-USE DRONE MANUFACTURERS – TOP 20 RANKING

#	COMPANY	COUNTRY	LOGO	RANKING	Δ2023
1	In Situ	USA		78.0%	-
2	Quantum-Systems	GERMANY		34.4%	+2
3	IdeaForge Technology	INDIA		37.0%	+2
4	Edge Autonomy	USA		36.2%	-1

IdeaForge Technology, an Indian drone manufacturer, secured 3rd position globally among the Top 20 Dual-Use Drone Manufacturers, as recognized by Drone Industry Insights, highlighting India's growing influence and innovative prowess on the world stage.

➤ **INPHLOX WATER SYSTEMS PVT LTD.**



Amrit Om Nayak (CEO and Co-Founder) and Krunal Patel (COO and Co-Founder) of Indra Water, a SINE IIT Bombay incubatee, have received the prestigious Forbes India Leadership Award at FILA 2025!

➤ **CHOIRA MUSICTECH PVT LTD.**



Choir, a Musictech startup, won the ‘Global Startup Award’ at Sushi Tech Tokyo 2024, held in May. Sushi Tech Challenge 2024 awarded startups around from globe.

INSTITUTE EVENTS

1) Hon'ble President of India Smt. Droupadi Murmu dedicates Anti-Cancer CAR-T Cell Therapy to the Nation:



On 4th April, 2024, the Hon'ble President of India, Smt. Droupadi Murmu, dedicated India's first indigenous CAR-T cell therapy, NexCAR19, to the nation. Shri Ramesh Bais, then Governor of Maharashtra, graced the event as Guest of Honour.

The event was attended by key contributors from IIT Bombay and Tata Memorial Centre, including Prof. Rahul Purwar and his team, Dr. Hasmukh Jain, Dr. (Surg Cdr) Gaurav Narula, as well as cancer survivors treated with the therapy.

President Murmu applauded the team for developing the world's most affordable CAR-T therapy and highlighted it as a landmark achievement under Atmanirbhar Bharat and Make in India. Shri Ramesh Bais also commended IIT Bombay, TMC and ImmunoACT for this breakthrough in gene therapy for cancer.

Former Director of IIT Bombay, Prof. Subhasis Chaudhuri, presented an overview of the Institute's research ecosystem and its contribution to the development of CAR-T cell therapy.

2) Union MoS for Education & DoNER Dr. Sukanta Majumdar Visits IIT Bombay:

On 6th January 2025, IIT Bombay Director Prof.

Shireesh Kedare welcomed Dr. Sukanta Majumdar, Hon'ble Minister of State for Education and DoNER. In the presence of the Deputy Directors and Institute functionaries, Dr. Majumdar launched the Institute's Sustainability Policy, the Pan-IIT Sustainability Conclave report and the first newsletter of the Research Hub for Green Energy and Sustainability (GESH). Brief presentations were made on the campus sustainability plan and GESH's vision. The Minister also visited key research and innovation facilities including the Department of Biosciences and Bioengineering, SINE and the IIT Bombay Research Park, and planted a sapling under the "Ek Ped Maa Ke Naam" campaign.



3) 66th Foundation Day:

IIT Bombay celebrated its 66th Foundation Day on 10th March 2025, honouring distinguished faculty and alumni. Mr. Ravi Pandit, Founder-Chairman, KPIT Technologies Ltd., was the Chief Guest.



The Institute conferred the Prof. S.C. Sahasrabudhe Lifetime Achievement Award (2024-25) on **Prof. Jayesh Bellare** (Chemical Engineering).



Prof. S.C. Bhattacharya Award for Excellence in Research in Pure Sciences (2024) on **Prof. Gopalan Rajaraman** (Chemistry).



The Prof. H.H. Mathur Award for Excellence in Research in Applied Sciences (2024) was presented to **Prof. Maryam Shojaei Baghini** (Electrical Engineering).

Outstanding alumni were honoured with the Distinguished Alumnus Awards (DAA) and Young Alumni Achiever Awards (YAAA) for their impactful contributions to society through innovation, leadership and excellence.

DAA Awardees:



- Prof. Rajesh N. Dave (BTech, Mechanical Engineering, 1978)
- Prof. Aniruddha Gole (BTech, Electrical Engineering, 1978)
- Prof. Venugopal Veeravalli (BTech, Electrical Engineering, 1985)
- Mr. Pramod Agrawal (BTech, Civil Engineering, 1986)
- Mr. Mahesh Kumar Navani (MSc, Chemistry, 1987)
- Prof. Punya Mishra (MDes, IDC, 1990)
- Mr. Alok Maskara (BTech, Chemical Engineering, 1992)
- Mr. Lucky Vasant Shah (BTech, Computer Science and Engineering, 1992)
- Mr. Jagdish J. Moorjani (BTech, Chemical Engineering, 1993)
- Mr. Sameer Halepete (BTech, Electrical Engineering, 1993)
- Mr. Jitendra Mohan (BTech, Electrical Engineering, 1994)
- Dr. Dileep George (BTech, Electrical Engineering, 1998)
- Dr. Aranyak Mehta (BTech, Computer Science and Engineering, 2000)
- Mr. Lalit Keshre (Dual Degree (BTech+MTech), Electrical Engineering, 2004)

YAAA Awardees:

- Mr. Dhruv Arora (MSc, Chemistry, 2008)
- Mr. Deepak Diwakar (BTech, Computer Science and Engineering, 2008)
- Mr. Maneesh Kalwaniya (Dual Degree, Aerospace Engineering, 2010)
- Prof. Nisarg Shah (BTech, Computer Science and Engineering, 2011)
- Mr. Aniket Deb (Dual Degree, Chemical Engineering, 2013)

In line with IIT Bombay’s commitment to sustainability and cleanliness, the Institute Cleanliness Awards were presented during the event as part of the Clean & Green Campus Initiative 2024-25. Prof. K.P. Kaliappan, Dean (Strategy), announced the awards for the top-performing Departments and Sections across various categories, honouring their dedicated efforts to create and maintain a clean and green campus. The following winners, selected after a detailed inspection and assessment by a committee during 24th-28th February, 2025, were felicitated:



Rank	Category	
	Best Academic Unit	Best Non-Academic Unit
1st position		
2nd position	Department of Civil Engineering	Hospital Section
2nd position	Department of Aerospace Engineering	Hospitality Section
3rd position	Shailesh J. Mehta School of Management	Electrical Maintenance Division
	Best Section-8 Company	Best Hostel
1st position	IIT Bombay-Washington University in St. Louis (WashU)	Hostel - 17
2nd position	IIT Bombay-Monash Research Academy	Hostel - 10
3rd position	Technology Innovation Hub (TIH) Foundation for IoT & IoE	Hostel - 14

In addition to the above categories, the following individuals were also honoured:

- Mr. Ajay Chandran for Best Logo Award in the logo competition organized by the Sustainable Awareness Committee
- Mr. Gulshan Kumar for developing an in-house mobile application for campus cleaning and maintenance activities

The function was held in the presence of the awardees, their family members, Institute functionaries and invited dignitaries.

Teachers' Day 2024:

IIT Bombay celebrated its 66th Teachers' Day on 5th September 2024 to mark the birth anniversary of Dr. S. Radhakrishnan. Lt. Gen. Dr. Madhuri Kanitkar (Retd), Vice-Chancellor, MUHS, Nashik, was the Chief Guest.

Awards presented included the IIT Bombay International Award for Excellence in Research in Engineering and Technology, the Prof. S.P.

Sukhatme Award for Excellence in Teaching, the Dr. P.K. Patwardhan Technology Development Award (2023), and the C1973 Research Excellence Awards, recognising outstanding faculty contributions.

The IIT Bombay International Award for Excellence in Research in Engineering and Technology (Instituted by Mr. Sandeep Naik and Mr. Shantanu Rastogi) was conferred on **Dr. Tony Q. S. Quek**, Singapore University of Technology and Design, for his exceptional work in next-generation wireless networks.

The awardees of "Professor S. P. Sukhatme Award for Excellence in Teaching" are as follows:

- Prof. Alka Hingorani, IDC School of Design
- Prof. Shilpa Ranade, IDC School of Design
- Prof. Jayendran Venkateswaran, Department of Industrial Engineering and Operations Research
- Prof. Shireesh B. Kedare, Department of Energy Science and Engineering
- Prof. Nagendra Rao Velaga, Department of Civil Engineering

- Prof. M.J.N.V. Prasad, Department of Metallurgical Engineering and Materials Science
- Prof. Mythili Vutukuru, Department of Computer Science and Engineering
- Prof. Rajendra Prasad Vedula, Department of Mechanical Engineering
- Prof. Ajit Rajwade, Department of Computer Science and Engineering
- Prof. Ranjan Kumar Panda, Department of Humanities and Social Sciences
- Prof. Preeti Raman, Department of Mathematics
- Prof. Balaji Ramakrishnan, Department of Civil Engineering
- Prof. Somnath Basu, Department of Metallurgical Engineering and Materials Science
- Prof. Sibi Raj Bhaskaran Pillai, Department of Electrical Engineering

Dr. P. K. Patwardhan Technology Development Award (2023) was awarded to **Prof. Manjesh Kumar Hanawal**, Department of Industrial Engineering and Operations Research in recognition of his innovative R and D work on ‘Vajra- An Indigenous tool for endpoint security’ and **Prof. Rajesh Patkar**, Department of Biosciences and Bioengineering in recognition of his innovative R and D work on ‘A Bio-stimulant based novel approach for enhanced Yield and Nutritional Value of potato’.

Following are the recipients of “C1973 Research Excellence Awards” (instituted by the Class of 1973 during their Golden Jubilee Reunion in 2023):

- Prof. Arnab Dutta, Department of Chemistry
- Prof. Shobhna Kapoor, Department of Chemistry
- Prof. Anshuman Kumar, Department of Physics
- Prof. Varun Bhalerao, Department of Physics
- Prof. Souvik Banerjee, Department of Economics
- Prof. Suddhaseel Sen, Department of Humanities and Social Sciences
- Prof. Karthikeyan Lanka, Centre of Studies in Resources Engineering
- Prof. Shashi Ranjan Kumar, Department of Aerospace Engineering
- Prof. Venkat Gundabala, Department of Chemical Engineering
- Prof. Jayadipta Ghosh, Department of Civil Engineering
- Prof. Preethi Jyothi, Department of Computer Science and Engineering

- Prof. Kasturi Saha, Department of Electrical Engineering
- Prof. Venkatasailanathan Ramadesigan, Department of Energy Science and Engineering
- Prof. Harish C. Phuleria, Environmental Science and Engineering Department
- Prof. Ankit Jain, Department of Mechanical Engineering
- Prof. Amrita Bhattacharya, Department of Metallurgical Engineering and Materials Science

Alumni Day 2024:

IIT Bombay held its Alumni Day on 29th December, 2024, at VMCC on the campus. The event began with a condolence offering to the former Hon’ble Prime Minister of India late Manmohan Singh.

This year, the Distinguished Service Award (instituted in 1999) was awarded to:

- Mr. Rajindra Harcharan Singh (BTech, Mechanical Engineering, 1988);
- Mr. Sandeep Asthana (BTech, Chemical Engineering, 1990)
- Mr. Sudhir Jayram Nikam (BTech, Chemical Engineering, 1993)

The Chapter Service Awards (instituted in 2018) are given to select alumni for their consistent contributions to the progress of their Chapters and the Institute.

The awardees for this year include:

- Mr. Rajesh Soy, BTech (1993) and MTech (1997), Computer Science and Engineering (Chapter: Seattle, USA)
- Mr. Ranjan Ojha (BTech, Metallurgical Engineering and Materials Science, 1998 (Chapter: Chicago, USA)
- Ms. Shweta Bhandari, BTech, Metallurgical Engineering and Materials Science, 2002 (Chapter: Greater New York, USA)
- Mr. Sagar Shah, Dual Degree, Chemical Engineering, 2008 (Chapter: Greater New York, USA)
- Ms. Sita Mahalakshmi Durvasula, E-MBA, Shailesh J. Mehta School of Management, 2016 (Chapter: Hyderabad, India)
- Mr. Sunay Wagle, MTech, Mechanical Engineering, 2017 (Chapter: Pune, India)

IIT Bombay, recognizing the alumni community for their continued support to the Institute, unveiled

a Donor Wall featuring the top donors of 2024 on the occasion. The Class of 1963 was also recognized for their support, with their representative Dr. Dhirendranath N. Buragohain (former Dean of Planning, IIT Bombay [1984-87]) and the Head of the Department of Civil Engineering, IIT Bombay [1988-91]) sharing fond memories.

The Institute also launched the 4th edition of the ‘GO-IIT Bombay’ fundraising campaign and showcased Project Evergreen on student housing. The Silver Jubilee Batch of 1999 pledged Rs. 21.2 crore towards a Legacy Project to support academics, research and IIT Bombay’s goal of becoming a global top-50 university by 2030.

76th Republic Day:

IIT Bombay celebrated the 76th Republic Day on 26th January, 2025. The event began with the unfurling of the National Flag by the Director Prof. Shireesh Kedare, at the Institute’s gymkhana grounds. IIT Bombay security staff and National Cadet Corps (NCC) saluted the National Flag. Prof. Kedare addressed the gathering and conveyed his best wishes to the IIT Bombay community on this momentous occasion.

During the event, the Director awarded certificates to the winners of the essay writing competition on “*Role of educational institutes in the fight against corruption*” held

during Vigilance Awareness Week 2024. Additionally, the security officers, guards and staff from IIT Bombay and NCC cadets were felicitated for their contributions. The celebrations featured performances filled with the spirit and fervour of the Republic Day by the students of Aman Day Care Centre, Campus School, Kendriya Vidyalaya, IIT Bombay and National Service Scheme (NSS).

Dhrupad Rudraveena Concert:

IIT Bombay organized a Dhrupad Rudraveena Concert on 11th May, 2024, in honour of the late Ustad Zia Fariduddin Dagar recognizing his enormous contributions to music education at the Institute. On this occasion, a portrait of the late Ustad was unveiled by his nephew and artist, Ustad Mohi Bahauddin Dagar.

World Environment Day:

On 5th June 2024, IIT Bombay marked World Environment Day with campus cleanliness drives and awareness activities in collaboration with the Dean (IPS) Office, Estate Office, Public Health Office, NSS, Abhyudaya and Team Shunya. KV School students participated in a nature walk, where the Public Health Officer highlighted the importance of environmental protection. Initiatives such as a zero-food-waste campaign in hostel messes were introduced.



Republic Day celebrations at the Institute’s Gymkhana ground



The Environmental Science and Engineering Department, in collaboration with the Institution's Innovation Council, also hosted a virtual talk by Dr. Sanat Kumar Saha on “Energy Security and Environmental Protection: An Indian Perspective,” emphasizing the need for sustainable practices at national and global levels.

National Statistics Day:

On 29th June, 2024, the Department of Mathematics at IIT Bombay celebrated National Statistics Day by organizing online lectures by experts Prof. Bimal Roy (former Director of the Indian Statistical Institute, Kolkata) and Prof. Debasis Sengupta (former Dean of the Indian Statistical Institute). This event honours the birth anniversary and the notable contributions made by Professor (late) Prasanta Chandra Mahalanobis in the fields of statistics and economic planning.

Van Mahotsav:

IIT Bombay celebrated Van Mahotsav on 28th July 2024 with a tree plantation drive near Lakeside Road. Mr. Abhijit Bangar, Additional Municipal Commissioner, BMC, served as Chief Guest and emphasized planting indigenous species, preserving old trees during construction, and building a greener future.

The event saw participation from Institute functionaries, faculty, staff, students and students of Kendriya Vidyalaya and Campus School. Cultural performances highlighting the importance of trees were well received.

Organised by the Horticulture Section of the Estate Office, the drive was further extended off campus by Team Abhyuday, which planted 1,500 saplings of 56 species in Marol, Mumbai, under the ‘Green Earth Campaign’ to promote sustainability, biodiversity and climate action.

First INUP User's Meet:

IIT Bombay hosted the first INUP Users' Meet on 10th August 2024. Launched in 2008 by the Ministry of Electronics and Information Technology (MeitY)

at IIT Bombay and IISc, INUP expanded in 2021 to include IIT Guwahati, IIT Delhi, IIT Kharagpur, and IIT Madras. The programme provides access to MeitY-supported semiconductor nanofabrication facilities for academic researchers and startups, and offers industrial training under the India Semiconductor Mission.

The Meet, co-organized by the six INUP host institutes, celebrated the programme's achievements and charted its future direction. Over 350 participants — including researchers, academicians, and industry professionals—attended. The event was inaugurated by Mr. S. Krishnan, Secretary, MeitY and featured distinguished guests such as Dr. R. Chidambaram, former Principal Scientific Advisor to the Government of India, and Prof. V. Ramgopal Rao, Ex-Director IIT Delhi and Group Vice-Chancellor of BITS Pilani.

A key highlight was the ‘Brainstorming Session: INUP of the Future’, focusing on talent development, enhanced industry-academia collaboration, startup support, and workforce training. The Meet concluded with the felicitation of INUP Nanotech Hackathon winners and academic and startup users for their achievements enabled by the programme.

Nasha Mukta Bharat Abhiyaan:

On 12th August, 2024, IIT Bombay participated in the Nasha Mukta Bharat Abhiyaan, a nationwide initiative by the Ministry of Social Justice and Empowerment, Government of India, aimed at creating a drug-free India. The Institute's staff took a pledge in the Conference Room of the Registrar's Office. Meanwhile, over 200 students from IIT Campus School and Junior College, Powai and PM SHRI Kendriya Vidyalaya, IIT Powai, enthusiastically participated in the campaign, led by their teachers. The students displayed posters with powerful messages such as “Say No To Drugs” and vowed to support the cause, promoting a healthier and more responsible lifestyle.

National Librarian's Day:

The Central Library of IIT Bombay celebrated National Librarian's Day on 12th August 2024, marking the 132nd birth anniversary of Dr. S. R. Ranganathan, the Father of Library Science in India. Dr. Shalini R. Urs, Founder and Chairperson of MYRA School of Business and former Professor at the University of Mysore, was the Chief Guest and delivered the keynote address, "In Ranganathan's Long Shadow: His Legacy and Impact on Modern Information Systems", highlighting the enduring relevance of his seminal works, including The Five Laws of Library Science.

The programme, attended by Institute functionaries and over 100 students and library professionals, also featured a panel discussion on "How Libraries Build Stronger Communities by Connecting and Empowering Users", moderated by Prof. S. Shankaranarayanan with panelists Prof. Irishi N. N. Namboothiri, Mrs. Smruti Bhattacharya, and Mr. Yogesh Patil.

A special highlight was the felicitation of long-serving library staff who completed 25 years of service, along with retired librarians and former Library Committee convenors, in recognition of their dedicated contributions to the Central Library.

Partition Horrors Remembrance Day:

On 14th August, 2024, IIT Bombay observed "Partition Horrors Remembrance Day" to honour the victims and the suffering experienced by countless individuals during the 1947 partition of India.

To mark this occasion, a digital exhibition was organized in the foyer of the VMCC, curated jointly by the Indian Council of Historical Research (ICHR) and the Indira Gandhi National Centre for the Arts (IGNCA). A large number of faculty, staff and students from the Institute, as well as from PM SHRI KV IIT Powai and the IIT Bombay Campus School & Junior College, visited the exhibition.

78th Independence Day:

On 15th August 2024, IIT Bombay celebrated its 78th Independence Day with patriotic fervour, including flaghoisting, rallies, cultural programmes, and tributes. The celebrations commenced with the hoisting of the National Flag by Prof. Shireesh Kedare, Director, near the iconic arch facing the Nandan Nilekani Main

Building, followed by his address in the presence of Chief Guest and alumnus Mr. Deepak Satwalekar (BTech Hons, Mechanical Engineering, 1971). The event featured a student cultural programme, a tree plantation drive, and the felicitation of Mr. Prem Bahadur Gangabir Pun, Sr. Multi-skilled Assistant, for 40 years of dedicated service. Additionally, the "Har Ghar Tiranga" campaign encouraged campus residents to hoist the National Flag at their homes and take selfies at a dedicated booth near the flag-hoisting arch.

National Space Day:

On 23rd August 2024, IIT Bombay celebrated the first anniversary of National Space Day (NSpD), commemorating India's successful Chandrayaan-3 Moon landing under the theme "Touching Lives while Touching the Moon: India's Space Saga". As part of the celebrations, a symposium on Space Science and Technology was organized in association with Nehru Planetarium on 17 August 2024, featuring talks by Prof. Milind Atrey, Deputy Director (ART), on "Cryogenics for Space", and Prof. Alok Porwal, former head of IIT Bombay-ISRO Space Technology Cell, on "Untangling the History of Mars through Remote Sensing".

Space Technology Exhibition: IIT Bombay organized a five-day exhibition in the Convocation Hall foyer showcasing the Institute's innovations and research in space science and technology. Prof. K.V. Krishna Rao, Ex-Deputy Director (FIA), inaugurated the exhibition, attended by Prof. Varun Bhalerao (Physics). Highlights included astronomical imaging, astrophotography, emerging space technologies, and a Hardware Projects Display featuring research by IIT Bombay faculty. Exhibition photos are available online.

An Institute Talk on "Management of SLOSH in Space" by Prof. Prasanna Gandhi (Mechanical Engineering) was held on 23rd August 2024.

A series of technical competitions were organized by the Institute Technical Council in collaboration with the Rocket Team, Mars Rover Team, and Student Satellite Program Team. Challenges included Habitat Module Design for Extraterrestrial Plant Growth, Antenna Design for NOAA Satellites, and Rocket Fin Actuation. Winners were felicitated by Prof. K.V.

Krishna Rao and Prof. Upendra Bhandarkar.

Additionally, a series of social media features highlighted faculty-led research projects, including:

- Remote Sensing for Sustainable Agriculture – Prof. Avik Bhattacharya
- Village-Level Flood Risk Mapping – Prof. Subhankar Karmakar & Prof. Subimal Ghosh
- ISRO-Sponsored Mars Mission: Solar-Powered Hybrid UAV – Prof. Rajkumar S. Pant
- GROWTH-India: India's First Fully Robotic Optical Telescope – Prof. Varun Bhalerao
- Valles Marineris UAV Mission – Prof. Rajkumar S. Pant
- Liquid Atomization in Rocket Injectors – Prof. Hrishikesh Gadgil
- Planetary Environment Simulation Chamber – Prof. Deepak Singh
- Daksha Mission: Indian Eyes on Transient Skies – Prof. Varun Bhalerao

The exhibition and associated events underscored IIT Bombay's leadership in advancing space technology, research, and student innovation

National Sports Day:

IIT Bombay celebrated National Sports Day on 28th–29th August 2024, commemorating the birth anniversary of hockey legend Major Dhyan Chand. The Institute Sports Council organized a mixed Hockey League at the Indoor Cricket Turf, featuring teams with both male and female players, promoting competitiveness, teamwork, and sportsmanship. Winners were awarded trophies, including the 'Emerging Player of the Tournament' award. Additionally, a Body Composition Analysis camp was conducted on 29th August, where over 450 students completed a 70-second health assessment, providing insights to guide training, nutrition, and overall athletic performance.

Ideas4LiFE - Lifestyle For Environment:

The Ministry of Environment, Forest and Climate Change (MoEF&CC), Government of India, in collaboration with the Maharashtra Environment Department, organised the 'Ideas4LiFE – Lifestyle for Environment' Ideathon on 31st August 2024 at IIT Bombay.

Hon'ble Union Minister Shri Bhupender Yadav was

the Chief Guest. In his address, he emphasised the need for an ecologically conscious development model, noting the environmental costs of unchecked growth such as rising temperatures and biodiversity loss, and highlighting nature's vital role in sustaining life.

Senior officials from MoEF&CC and the Government of Maharashtra were present. Nearly 1,200 students, researchers, and faculty from Mumbai institutions participated, contributing ideas for sustainable lifestyles. Shri Yadav also planted a tree on campus under the 'Ek Ped Maa Ke Naam' campaign.

World Suicide Prevention Day:

On 10th September, 2024, the Student Wellness Centre at IIT Bombay, in collaboration with NGO Sneh Aagan, organized a street play titled "*Nurturing the Precious Gift of Life*" to observe World Suicide Prevention Day. The aim was to initiate an open dialogue around mental health and suicide prevention, fostering meaningful conversations that challenge stigma, promote understanding, and inspire a collective effort to safeguard mental well-being.

National Engineers' Day:

IIT Bombay celebrated National Engineers' Day on 15th September, 2024 in honour of Sir M. Visvesvaraya, a renowned Indian engineer and statesman. Mr. P R K Murthy, former Director, Metro Projects - MMRDA (Mumbai Metropolitan Region Development Authority), was the Chief Guest on the occasion.

Geographic Information System (GIS) Day:

IIT Bombay organized the first-ever Open Source Geographic Information System (GIS) Day celebrations on 15th September, 2024. The event included the National Geospatial Awards 2024 (Edition 01), which recognized the significant contributions of the various professionals in Geospatial Technology in India, including Institutions, Faculty, Industry professionals and Individuals. The Awards were held as an initiative of the (Free/ Libre and Open Source Software for Education) FOSSEE (GIS) project, IIT Bombay, organized under the aegis of the National Mission on Education through ICT (NMEICT), Ministry of Education, Government of India. Prof. Shireesh Kedare, Director of IIT Bombay, presented the awards during the ceremony.

Swachhata Pakhwada 2024:

IIT Bombay actively participated in Swachhata Pakhwada 2024 from 14th September to 2nd October, 2024, under the theme “Swabhav Swachhata-Sanskaar Swachhata” (स्वभाव स्वच्छता-संस्कार स्वच्छता) organizing a range of initiatives to promote hygiene and environmental responsibility among students and staff.

The celebrations included a Swachhata Pledge for employees, the establishment of a document shredding facility, QR-code feedback systems, and an awareness drive on abandoned bicycles. The Safai-Mitra Suraksha Shivir and Dignity Camps provided health check-ups, welfare scheme information, and preventive healthcare sessions for sanitation staff. A Rabies Awareness Camp featured experts from BMC and Mission Rabies, while the “Ek Ped Maa Ke Naam” tree plantation drive, graced by Dr. Shekhar C. Mande, promoted environmental sustainability.

Community engagement was further strengthened through a mega cleanliness drive, student-led initiatives such as a Cyclothon, Nukkad Natak, and Powai Lake Cleanup, and environmental competitions organized by both campus schools, focusing on cleanliness, single-use plastic elimination, and water and forest conservation. These activities collectively reinforced IIT Bombay’s commitment to cleanliness, sustainability, and civic responsibility.

Celebration of Birth Anniversaries of Gandhiji and Shastriji

On 2nd October, 2024, IIT Bombay paid homage to the Father of the Nation, Mahatma Gandhi and the third Prime Minister of India, Lal Bahadur Shastri, during a function held at the P.C. Saxena Auditorium. The Institute had also organized a prize distribution ceremony for Swachhata Pakhwada 2024 along with a cultural programme titled “Swaranjali”.

Appreciation certificates for various competitions held as part of Swachhata Pakhwada 2024 were distributed to students of Campus School, Kendriya Vidyalaya and IIT Bombay.

Prof. K.P. Kaliappan, Dean (Strategy) on behalf of the Institute Cleanliness Assessment Committee, announced the top three departments awarded in the “Clean & Green Campus Initiative 2024”. The Departments of Industrial Engineering and Operations Research, Aerospace Engineering and Civil Engineering were recognized for maintaining their academic units and premises clean.

World Mental Health Day:

On 10th October, 2024, IIT Bombay hosted an insightful conversation titled “Mind Matters for Well-Being” in observance of World Mental Health Day. The event featured US Surgeon General Dr. Vivek Murthy at the Institute’s Victor Menezes Convention Centre. In his remarks, Dr. Murthy emphasized the importance of viewing mental health as an integral part of overall health, drawing on both his personal and professional experiences. The event also featured an engaging fireside chat between Dr. Murthy and Ms. Ira Khan, Founder and CEO, Agatsu Foundation. Their conversation touched on the complexities of mental well-being, the challenges of isolation and the importance of creating supportive communities. Institute functionaries, including Prof. Shireesh Kedare, the Institute Director; Prof. Milind Atrey, Deputy Director (Academics, Research and Translation); Prof. K. V. Krishna Rao, Ex-Deputy Director (Finance, Infrastructure and Administration); and Prof. Ravindra Gudi, Dean (Alumni and Corporate Relations), attended the programme.

Vigilance Awareness Week and Rashtriya Ekta Diwas:

On the occasion of Vigilance Awareness Week observed during 28th October – 3rd November, 2024 and National Unity Day (Rashtriya Ekta Diwas) 2024, the Institute employees undertook the Integrity and Rashtriya Ekta Diwas pledges on 28th October, 2024, at the Registrar's Conference Room in the N. N. Main Building. Mr. Akhouri Ashutosh Sinha, Actg. Deputy Registrar (Legal and RTI), Administration Section, IIT Bombay, administered both pledges to IIT Bombay employees in Hindi while Ms. Falguni Banerjee Naha, Public Relations Officer, administered them in English. The Vigilance Cell of IIT Bombay organised an essay-writing competition for the campus community on the theme “*Role of educational institutes in the fight against corruption.*”

75th Constitution Day:



On 26th November 2024, IIT Bombay celebrated the 75th Constitution Day, commemorating the adoption of the Indian Constitution in 1949 and reaffirming its commitment to justice, equality, liberty, and fraternity. The day began with floral tributes at the Central Library to the original photocopy of the Constitution and at the statues of Dr. Babasaheb Ambedkar and Chhatrapati Shivaji Maharaj at the Nandan Nilekani Main Building.

The SC/ST Welfare Association (MKS) organized an event at the P.C. Saxena Auditorium, where Prof. Milind Gawai highlighted the Constitution's contemporary relevance. The Buddhist Cultural Association led a vibrant Constitution Glory procession, involving NASA, MKS, OBC and Sthaniya Lokadhikar Samiti, culminating in a collective recitation of the Preamble. At PM SHRI Kendriya Vidyalaya, IIT Powai, the day began with the garlanding of Dr. Ambedkar's portrait. Mr. Rajesh Kumar Shukla and Principal Mr. V.S. Wankhede addressed the historical and inclusive significance of the Constitution. Around 1,022 students and 54 staff members participated in reciting the Preamble, while Class VIII students presented a creative depiction of fundamental rights and duties.

The Campus School and Junior College conducted a special morning assembly led by Principal Mrs. Valsala Kumari, including an oath-taking ceremony. Prof. Rahul Suresh Sakpal delivered an interactive talk on citizens' duties. Students also participated in competitions such as drawing, poster making, quizzes, essay writing, and spelling bee, fostering awareness and reflection on constitutional values.

Jan Jatiya Gaurav Divas:

IIT Bombay launched 'Jan Jatiya Gaurav Varsh', a year-long celebration honoring the 150th birth anniversary of tribal leader Bhagwan Birsa Munda, from 15th November 2024, recognizing his pivotal role in India's freedom struggle. The festivities began with the inaugural ceremony of Jan Jatiya Gaurav Divas on 18th November, featuring floral tributes to Chhatrapati Shivaji Maharaj, Dr. Babasaheb Ambedkar and Bhagwan Birsa Munda, offered by Chief Guest Mr. Ganesh Bhorkhade, Registrar and Guest of Honour Prof. Nand Kishore, Dean (Administrative Affairs). Both emphasized community support and celebrated the courage and resilience exemplified by Birsa Munda.

At PM SHRI Kendriya Vidyalaya, IIT Powai, a week-long observance began on 15th November with Tribal Pride Day, including a prayer meeting led by Principal

Mr. V.S. Wankhede. Activities featured documentary screenings, seminars on tribal culture, student discussions on tribal heritage and the Constitution, murals depicting folk art and a street play on Birsa Munda's life.

The Campus School and Junior College hosted an awareness programme on 22nd November, including skits, poetry and poster-making. Students donned traditional Adivasi attire to represent tribal culture and highlighted the importance of protecting tribal rights, reflecting IIT Bombay's commitment to celebrating and preserving India's rich cultural diversity.

Bharatiya Bhasha Utsav:

IIT Bombay commemorated Bharatiya Bhasha Utsav on 11th December, 2024, honouring the birth anniversary of poet Subramania Bharati, also known as Mahakavi Bharathi. On the occasion, the Institute organized a vibrant cultural programme celebrating the significance of India's diverse languages and promote its rich cultural heritage.

ATMAN 2.0:

The Technology Innovation Hub (TIH) Foundation for IoT and IoE at IIT Bombay hosted Agri sTartup deMo And fuNding (ATMAN 2.0), an event dedicated for innovators, researchers and leaders from India's top institutions to showcase groundbreaking Agri-IoT translational research on 6th January, 2025. The session was attended by Prof. Abhay Karandikar, Secretary, Department of Science and Technology (DST), Government of India (GoI), Dr. Ekta Kapoor, Head – Frontier and Futuristic Technologies (FFT) Division, DST, Prof. Milind Atrey, Deputy Director (Academics, Research and Translation), Prof. Leena Vachhani, former PiC, TIH-IoT and Mr. Kiran Shesh, CEO, TIH-IoT, IIT Bombay.

It witnessed the participation of deeptech academic researchers from IIT Delhi, IIT Kharagpur, IIT (BHU) Varanasi, National Institute of Technology (NIT) Warangal, Visvesvaraya National Institute of Technology (VNIT) Nagpur etc. A total of 20+ deeptech research projects from across the country participated in the expo and the research grant funding pitch fest. The event saw a creation of a corpus of INR 10 cr. TIH will be funding 7 academic research projects with a grant, alongside providing technical development support and lab-to-market guidance. 10+ industrialists like Poonawala Fincorp, Tata Communications, Jio, Tata Chemicals, L&T, among others, participated in the event including the promising Agritech startups.

Pariksha Pe Charcha 2025:

On 10th February 2025, approximately 200 students from PM SHRI Kendriya Vidyalaya and IIT Bombay Campus School & Junior College participated in the 8th edition of 'Pariksha Pe Charcha' at the P.C. Saxena Auditorium. During the event, Hon'ble Prime Minister Shri Narendra Modi interacted with students, providing valuable guidance on exam preparation, stress management, and holistic learning, helping to alleviate exam-related anxiety.

As part of the lead-up to the programme, PM SHRI Kendriya Vidyalaya, IIT Powai, organized a quiz competition on 23rd January (Parakram Diwas) themed on the Krish Trishu and Baiti Boy (KTB) series 'Bharat Hain Hum', celebrating patriotism, courage and the spirit of freedom.

International Mother Language Day:

IIT Bombay celebrated the International Mother Language Day on 21st February, 2025 to promote the use of mother tongue/ native language in the Institute. The event featured various programmes highlighting the linguistic diversity of our country. Prof. Nand Kishore, Dean (Administrative Affairs), was the Chief Guest on the occasion.

54th National Safety Week:

IIT Bombay observed the 54th National Safety Week from 4th-10th March 2025, inaugurated on National Safety Day at the P.C. Saxena Auditorium under the theme "Safety and Well-Being Crucial for Viksit Bharat". The programme began with a safety pledge led by Mr. Amit Kumar, Technical Officer, Fire and Safety Section, followed by opening remarks from Prof. Prakash Nanthagopalan, Associate Dean-III (IPS), and a welcome address by Prof. K.V. Krishna Rao, Deputy Director (FIA).

Expert sessions on fire safety were delivered by Mr. V.M. Mainkar (DFO, Mumbai Fire Brigade) and Dr. D.M. Patil (ADFO, Mumbai Fire Brigade), while Mr. Raj Kumar Paul (AVP & EHS Head, Tata Projects) spoke on construction safety. Appreciation certificates were awarded to section offices — including Security-QRT, Estate Office, Electrical Maintenance Division, Design Cell, Public Health Office, and new construction contractors — for their loss-time free operations.

The week featured safety walks, fire drills, awareness drives, and a defensive driving training session conducted by the Fire and Safety Section on 10 March. The event concluded with the poster competition awards, highlighting active participation and IIT

Bombay's commitment to workplace safety and well-being.

Post Budget Webinar on PMRF

On 5th March, 2025, IIT Bombay functionaries including Mr. Ganesh Bhorkade, Registrar; Prof. Pratibha Sharma, Associate Dean (Academic Programmes) along with other staff members participated in the Post Budget Webinar on Prime Minister's Research Fellowship (PMRF). The webinar was addressed by the Hon'ble Prime Minister of India Shri Narendra Modi via virtual conference.

International Women's Day:

On 7th March, 2025, IIT Bombay celebrated International Women's Day with a panel discussion, "Breaking Barriers: Wisdom from Inspiring Alumnae Who Lead". The panel featured remarkable women alumnae of the Institute, including Ms. Damini Kumari, former TV presenter and Leadership Coach (BTech, Metallurgical Engineering and Materials Science, 1991); Ms. Girija Ram, Entrepreneur (MSc, Chemistry, 1980); Ms. Ahana Gautam, Industry Professional (BTech, Chemical Engineering, 2010) and Ms. Zenobia Driver, Consultant (MSc, Chemistry, 1998). They shared their experiences and insights on overcoming obstacles in their respective fields. The Institute also recognized women colleagues who are superannuating in 2025, honouring their dedication and commitment.

Inaugurations on campus during 2024-25:

Department Of Industrial Engineering And Operations Research:

On 24th April, 2024, Prof. Subhasis Chaudhuri, former Director of IIT Bombay, formally inaugurated the Department of Industrial Engineering and Operations Research by unveiling the new name board. A BTech Programme in IEOR was also launched during the event. Prof. Avinash Mahajan, former Dean (Academic Programmes), shared his thoughts on the newly launched BTech program in IEOR. The event brought together faculty, mentors and students, both in person and online, to celebrate this momentous occasion. The inauguration and academic programme launch were held as part of the IEOR Symposium 2024.

New Souvenir Shop: IIT Bombay Director Prof. Shireesh Kedare inaugurated the Institute's new souvenir shop on 22nd October, 2024. This new vibrant space on campus will enable visitors to collect elegant memorabilia that celebrates the legacy of our Institute.

New Telephone Exchange: On 25th November, 2024, Prof. Milind Atrey, Deputy Director (Academics, Research and Translation), in the presence of Prof. Prabhu Ramachandran, Head of the Computer Centre, inaugurated the new Telephone Exchange on the Institute campus. The Institute staff welcomed new initiatives of the Exchange, which promise to facilitate enhanced communication infrastructure and efficiency across the campus.

New Accounts Section Office: Director Prof. Shireesh Kedare inaugurated the newly renovated Accounts Section office of IIT Bombay on 3rd February, 2025. Various Institute functionaries including Prof. K.V. Krishna Rao, Deputy Director (Finance, Infrastructure and Administration (FIA)), Prof. P. Vedagiri, Dean (Infrastructure Planning and Support (IPS)); Prof. Venkata Santosh Kumar Delhi, Associate Dean (IPS) - I; former Directors Prof. Devang Khakhar, Prof. Subhasis Chaudhuri and Mr. Ganesh Bhorkade, Registrar along with staff attended the function.

Prof. R. S. Ayyar Conference Room: On 3rd February, 2025, IIT Bombay inaugurated the “Prof. R. S. Ayyar Conference Room” at the Department of Civil Engineering at the hands of Mrs. Parvathy Ayyar and Ms. Jayashree Subrahmonia, the wife and younger daughter of the late Prof. R. S. Ayyar, who held the position of Head, Department of Civil Engineering (1979-1982) and Dean of Academic Programmes (1982-1985) at IIT Bombay. The Memorandum of Understanding (MoU) for this Conference Room was signed on 5th May, 2022 (online).

Institute functionaries Prof. Shireesh Kedare, Director; Prof. K.V. Krishna Rao, Deputy Director, (Finance, Infrastructure and Administration (FIA)); Prof. Milind Atrey, Deputy Director (Academics, Research and Translation (ART)); Prof. P. Vedagiri, Dean (Infrastructure Planning and Support (IPS)); Prof. Ravindra Gudi, Dean (Alumni and Corporate Relations (ACR)); Prof. Tom Mathew, Head of the Department of Civil Engineering, along with students, faculty and staff members were present on the occasion. In addition, on 3rd January, 2025, a sapling of the Bakul Tree (*Mimusops elengi*) was also planted at the Civil Engineering Lawn in memory of Prof. Ayyar by his elder daughter and Institute alumna Mrs. Ranjani Saigal (BTech, Civil Engineering, 1981).

New Facilities At IIT Bombay Hospital: On 4th February, 2025, Prof. Milind Atrey, Deputy Director (Academics, Research and Translation) inaugurated two important facilities at IIT Bombay Hospital: ‘Cafe Nirvana’ and ‘Vishranti,’ a waiting room specifically

designed for senior citizens. Institute functionaries and staff attended the function, reflecting a commitment to enhancing the hospital’s services for the community.

New Playground: On 12th February, 2025, Director Prof. Shireesh B. Kedare officially dedicated a new playground for campus residents. The playground, located near the former Hostel 7, adjacent to Hostel 17, is equipped with floodlighting, allowing for use during both daytime and evening hours. The facility features a mini-football field, a volleyball court, a basketball court and an open gym at the back of the area. Additionally, a stepping stone path has been built for walking around the playground.

New Food Court At Lecture Hall Complex: Prof. Shireesh Kedare, Director of IIT Bombay, inaugurated a new food court at the Lecture Hall Complex (LHC) on 24th February, 2025. The food court offers a variety of delicious and affordable meal options to all. Prof. Milind Atrey, Deputy Director (Academics, Research and Translation); Prof. K.V. Krishna Rao, Deputy Director (Finance, Infrastructure and Administration); Prof. Suryanarayana Doolla, Dean (Student Affairs); Prof. Atul Srivastava, Associate Dean (Student Affairs); Prof. P. Vedagiri, Dean (Infrastructure Planning and Support) among many other faculty, staff and students attended the function.

New Internal Audit & Grievance Redressal Section Office: On 6th March, 2025, Prof. Shireesh Kedare, Director of IIT Bombay inaugurated the newly renovated Internal Audit & Grievance Redressal Section office of IIT Bombay. IIT Bombay functionaries Prof. K.V. Krishna Rao, Deputy Director (Finance, Infrastructure and Administration); Prof. Milind Atrey, Deputy Director (Academics, Research and Translation) and Mr. Ganesh Bhorkade, Registrar, were the Guests of Honour. Prof. Nand Kishore, Dean (Administrative Affairs); Prof. P. Vedagiri, Dean (Infrastructure Planning and Support), various Institute officials and staff members also attended the inauguration.

VISITS:

Maharashtra Chief Secretary Visits Campus: Ms. Sujata Saunik, the Chief Secretary of Maharashtra, visited IIT Bombay on 14th July, 2024 to discuss avenues of collaboration with the Institute. The discussions with Prof. K. V. Krishna. Rao, Deputy Director (Finance, Infrastructure and Administration) and faculty from various Departments focused on harnessing IIT Bombay’s expertise across diverse domains of shared interest to strengthen government

programmes and capacity building of government agencies in the state.

École Polytechnique, France Delegation: IIT Bombay hosted a delegation from École Polytechnique, France. Prof. Shireesh Kedare, Director of IIT Bombay, along with Prof. K.V. Krishna Rao, Deputy Director (Finance and External Affairs) and Prof. Sudarshan Kumar, Dean (International Relations) met the Prof. Dominique Rossin, Provost of École Polytechnique, Ms. Gaëlle Le Goff, Director of International Affairs and Mr. Paul Forien, Deputy Director of International Affairs.

The positive discussions focused on the development of a collaborative relationship between the two premier institutes. The delegation also visited Society for Innovation and Entrepreneurship (SINE) and Centre for Machine Intelligence and Data Science (C-MInDS) in IIT Bombay.

France Ambassador: As part of the Indo-French Year of Innovation 2026, Dr. Thierry Mathou, the French Ambassador to India visited IIT Bombay on 16th May, 2024 to discuss ways for further strengthening of the collaborations between French Institutions and IIT Bombay. Dr. Mathou was received by the Director Prof. Shireesh Kedare at IIT Bombay. Besides his interaction with the Institute functionaries, he visited the Society for Innovation and Entrepreneurship (SINE), Research Park and various Labs of the Institute.

International Delegates: On 20th February, 2025 a delegation of 32 international professionals from 21 countries visited IIT Bombay, led by Mr. GS Suryawanshi, Director, Civil and Autonomous Bodies (C&AB), Office of Principal Director of Audit (Central), Mumbai, Indian Accounts and Audit Department.

During their visit, the participants had the opportunity to explore cutting-edge AI-driven projects at the Institute and visit the Centre for Machine Intelligence and Data Science. They gained hands-on experience through simulations and live demonstrations, providing a comprehensive understanding of AI-driven innovations and advancements.

Prof. Nand Kishore, Dean (Administrative Affairs), Prof. Sachin Patwardhan, Dean (Research and Development), Mr. Ganesh Bhorkade, Registrar and few more functionaries from IIT Bombay interacted with the delegates.

INSTITUTE CONFERENCES:

2nd Summit of Academia Networking with Government, Allied Health Workers and Medical Professionals (SANGAM): IIT Bombay hosted

the second edition of the Summit of Academia Networking with Government, Allied Health Workers and Medical Professionals (SANGAM), a two-day International Health Conference, during 20th-21st April, 2024 at the Institute campus. The event was organized in partnership with the Maharashtra University of Health Sciences (MUHS). Prof. Sarthak Gaurav, Shailesh J. Mehta School of Management, was the Conference Chair.

BiOMEx '24 Symposium: The BiOME Lab at the Department of Mechanical Engineering, organized BiOMEx '24, a two-day international symposium on Musculoskeletal Biomechanics in Engineering and Medicine during 3rd-4th May, 2024. The symposium was in collaboration with the Biomedical Engineering and Technology Innovation Centre (BETIC) and the Wadhvani Research Centre for Bioengineering (WRCB). Prof. Darshan S. Shah was the convener for this symposium.

National Conference on Agency and Value: The Department of Humanities and Social Sciences, IIT Bombay, organized a National Conference on Agency and Value during 3rd-4th June, 2024. The event was in collaboration with Institute of Eminence, IIT Bombay, Tattvanveshi Philosophical Society: Forum for Philosophy and Professor Geeta Ramana's Memorial Research Scholar Forum, Department of Philosophy, University of Mumbai. Prof. Ranjan Panda was the convener.

National Conference on Indian Knowledge System in Management: The Shailesh J. Mehta School of Management (SJMSOM) organized a three-day national conference on the Indian Knowledge System in Management during 4th-6th July, 2024. SJMSOM organising team included Prof. S.V.D. N. RAO (HoD), Prof. Varadraj Bapat, Prof. Ashish Pandey, Prof. Trupti Mishra and Prof. Rohan Chinchwadkar

Symposium on MicroNanoplastics and Environmental Impact: A symposium on 'MicroNanoplastics and Environmental Impact' was organized by the IIT Bombay Research Hub for Green Energy and Sustainability (GESH IITB) on 13th August, 2024. Prof. Guruswamy Kumaraswamy, Department of Chemical Engineering, IIT Bombay was the organizer.

34th Conference on Mathematical Geophysics (CMG2024): The Department of Earth Sciences, IIT Bombay organized the 34th Conference on Mathematical Geophysics (CMG2024); (<https://cmg2024.org>) of the International Union of Geodesy

and Geophysics (IUGG), during 2nd-7th June, 2024 on the theme “Mathematical Geophysics for Sustainable Development”. The conference was preceded by a three-day pre-conference workshop on “Computational Geosciences for Sustainable Development” (30th May-1st June, 2024). Prof. E. Chandrasekhar was Chair of the Local Organizing Committee of CMG2024.

Conference on Visual Discourse: The IDC School of Design, IIT Bombay, organized a conference on Visual Discourse during 6th-8th November, 2024. Prof. Prasad Bokil was the Conference Chair.

International Conference on ESTESODP: The Department of Metallurgical Engineering and Materials Science, IIT Bombay organized an international conference on “Electronic structure theory of emergent spin orbit driven phenomenon (ESTESODP)” during 11th-15th November, 2024. Prof. Amrita Bhattacharya, Prof. Avra deep Pal and Prof. Aftab Alam were the organizers from IIT Bombay.

Symposium and workshop on 4D Omics: The Department of Biosciences and Bioengineering, IIT Bombay hosted a one-day symposium and workshop titled “Pioneering the Future of Healthcare and Diagnostics Using 4D Omics” on 12th November, 2024. Prof. Sanjeeva Srivastava was the convener.

Annual Symposium 2025 on Dementia and Neurodegeneration: The Sunita Sanghi Centre of Aging and Neurodegenerative Diseases (SCAN) Centre, IIT Bombay, organized an annual Symposium 2025 on “Dementia and Neurodegeneration” on 9th January, 2025. Prof. Samir K Maji, Professor-in-Charge, SCAN and Department of Biosciences and Bioengineering was the convener.

R&D Conclave 2025 on Energy Transition Mechanism, Accelerating Domestic Energy Production and the Role of Digital Transformation: The Centre of Excellence in Oil, Gas & Energy (CoE-OGE), IIT Bombay organized a one-day R&D Conclave 2025 on “Energy Transition Mechanism, Accelerating Domestic Energy Production and the Role of Digital Transformation” on 30th January, 2025. Prof. Yogendra Shastri, Professor-in-Charge, CoE-OGE was the convener.

Conference on Municipal Wastewater Management: Gaps, Sustainability & Way Forward: IIT Bombay and the Department of Environment and Climate Change, Maharashtra Pollution Control Board (MPCB), jointly organized a one-day conference titled “Municipal Wastewater Management: Gaps,

Sustainability & Way Forward” on 10th February, 2025. Smt. Pankaja Munde, the Hon’ble Minister of Environment & Climate Change, Animal Husbandry, Government of Maharashtra was the Chief Guest. Prof. Anil Kumar Dikshit, Environmental Science and Engineering Department, IIT Bombay was the convener.

AMTTR 2025 Conference: The Gogri Hub for Membranes Research, a unit of Translational Research Centre – Chemicals and Materials, IIT Bombay organized a conference on “Applied Membrane Technology and Translational Research (AMTTR 2025)” during 3rd-4th March, 2025. Prof. Swatantra Pratap Singh, Professor-in-Charge was the convener.

2nd Indian Cryosphere Meet (ICM) 2025: The Department of Civil Engineering, IIT Bombay organized the 2nd Indian Cryosphere Meet (ICM) 2025, during 14th-15th February, 2025. Prof. RAAJ Ramsankaran was the host.

2nd Meeting of Young Minds in Frontier of Economics: The Department of Economics, IIT Bombay in association with the Young Scholars Initiative (YSI) instituted by the Institute of New Economic Thinking (INET) organized a conference on “2nd Meeting of Young Minds in Frontier of Economics” during 17th–19th February, 2025. Prof. K. Narayanan and Prof. Tara Shankar Shaw were the conveners.

International Conference on Psycho-social challenges Among Women with PCOS: The Psychophysiology Laboratory, Department of Humanities and Social Sciences organized an international conference titled “Psycho-social challenges Among Women with Polycystic Ovary Syndrome (PCOS)” during 26th-28th February, 2025. Prof. Azizuddin Khan was the convener.

Symposium on Smart Sensors and Data Analytics for Air Quality Management: The Aerosol and Nanoparticle Laboratory (ANTL), Environmental Science and Engineering Department, IIT Bombay organized a symposium on Smart Sensors and Data Analytics for Air Quality Management during 7th-8th March, 2025. Prof. Manoranjan Sahu was the convener.

Seed Funding for Collaboration and Partnerships Project (SCPP) - Institution of Eminence (IoE) sponsored Conferences

Symposium (IoE-SCPP)- Frontiers in Biomolecular Interactions: From Polymers to Membranes: The Department of Physics hosted a two-day symposium

titled “Symposium (IoE-SCPP)- Frontiers in Biomolecular Interactions: From Polymers to Membranes” during 5th-6th August, 2024. Prof. Sunita Srivastava, Department of Physics was the convener.

Symposium on Digital Transformation in Marketing: The Shailesh J. Mehta School of Management, IIT Bombay organized a symposium on Digital Transformation in Marketing on 29th November, 2024 at the Institute campus. Prof. Arti D. Kalro and Prof. Dinesh Sharma were the conveners.

Symposium on Circular Economy: The Environmental Science and Engineering Department organized a two-day national symposium on Circular Economy: Enabling Technologies, Policies and Practices during 9th-10th December, 2024. Prof. Pradip Kalbar and Prof. Munish Chandel were the organizers.

Symposium on Blue Economy: The Department of Civil Engineering, IIT Bombay, organized a two-day symposium on ‘Blue Economy,’ as part of “Sustainable Ocean Engineering, Technology and Developments” event during 11th-12th December, 2024. Prof. Manas R Behera and Prof. Srineesh V.K. were the organizers.

International Conference on BAMS-ORSI 2024: The Shailesh J. Mehta School of Management, IIT Bombay, organized an International Conference on Emerging Trends in Business Analytics and Management Sciences (BAMS) and the 57th Annual Convention of Operational Research Society of India (ORSI-2024), during 12th-14th December, 2024. Prof. Pankaj Dutta was the Organizing Chair.

Symposium on Global Citizenship Education and Internationalisation of Higher Education: The Ashank Desai Centre for Policy Studies, IIT Bombay, organized a one-day symposium on Global Citizenship Education and Internationalisation of Higher Education on 29th January, 2025. Prof. Malish. C. M was the convener.

International Conference on APT 2025: The Department of Biosciences and Bioengineering, IIT Bombay, organized an International conference on Advances in Proteomics Technologies (APT)-2025 during 16th-17th February, 2025. Prof. Sanjeeva Srivastava was the convener.

Conference on Advances in Genomics & Transcriptomics: The Department of Chemical Engineering, IIT Bombay organized a conference on Advances in Genomics & Transcriptomics on 2nd March, 2025. Prof. Sarika Mehra was the Chair.

Prof. Santanu Ghosh (Department of Biosciences and Bioengineering (BSBE)), Prof. Sushil Kumar (Department of BSBE) and Prof. Saket Choudhary (Koita Centre for Digital Health) were the Co-Chairs.

Symposium on Usage of FOSS in Teaching and Research: IIT Bombay organized a symposium on Usage of Free & Open Source Software (FOSS) in Teaching and Research on 7th March, 2025. Prof. Kowsik Bodi (Department of Aerospace Engineering), Prof. Kumar Appaiah (Department of Electrical Engineering (EE)), Prof. Madhu N. Belur (Department of EE) were the conveners.

International Conference on Typographyday 2025: The IDC School of Design (IDCSoD), IIT Bombay organized an international conference titled ‘Typographyday 2025’ on the theme of ‘Typography and Storytelling’ during 7th-8th March, 2025, with support from India Design Association (InDeAs) and Aksharaya. The conference was chaired by Prof. Ravi Poovaiah (IDCSoD), Prof. G V Sreekumar (IDCSoD) and Dr. Ajanta Sen (representing (InDeAs), Director, Solar Project, Mumbai).

RISC 2025: The Department of Computer Science and Engineering, IIT Bombay organized Research and Innovation Symposium in Computing (RISC) 2025 during 22nd-23rd March, 2025. Prof. Varsha Apte was the convener.

INSTITUTE WORKSHOPS

Workshop on Consumer Neuroscience: The Behavioural Lab at Shailesh J. Mehta School of Management (SJMSOM), IIT Bombay organized a one-day workshop on Consumer Neuroscience on 2nd May, 2024. The speakers were marketing stalwarts Prof. Arvind Sahay, MDI Gurgaon and Ms. Sunila G. Benjamin, Director, Neuro and Design, APMEA, NIQ BASES. A hands-on training with eyetracking methodology led by Prof. Arti D. Kalro, Prof. Dinesh Sharma, Prof. Mayank Pareek and Ms. Shruti Trehan was also conducted following the workshop. This workshop was supported by the Institute of Eminence funding, Sanki Machine Tools Pvt. Ltd., and Tiden Technologies.

Workshop on Pali Buddhist Literature: The Department of Humanities and Social Sciences, IIT Bombay, organized a two-day workshop on Pali Buddhist Literature: An Overview on 3rd May, 2024. Mr. Wimal Hewamanage, Professor in Pali and Buddhist Studies, Department of Buddhist Studies, University of Colombo, Srilanka was the speaker. Prof. C.D. Sebastian was the convenor.

Workshop on Self and Society: The Department of Humanities and Social Sciences, IIT Bombay, organized a two-day workshop on Self and Society during 1st-2nd June, 2024. The event was in collaboration with Institute of Eminence, IIT Bombay. Prof. Ranjan Panda was the convener.

Joint workshop on Biohydrogen and Fuel Cell systems: The Department of Energy Science and Engineering, IIT Bombay in association with University of Groningen organized a two-day joint workshop on Biohydrogen and Fuel Cell systems during 3rd- 4th June, 2024. Prof. Sandeep Kumar was the organizer.

Joint workshop on Quantum Technologies: As an international partner of the prestigious Chicago Quantum Exchange (CQE), IIT Bombay, along with the University of Chicago, held a two-day joint workshop on Quantum Technologies at the U-Chicago Centre in New Delhi on 5th-6th June, 2024. The faculty and students from both institutes, along with invited members from the Tata Institute of Fundamental Research (TIFR), industry representatives from companies such as Applied Materials, IBM, C-DoT and TCS and delegates from the Department of Telecommunications (DoT), participated in the workshop.

Workshop on WINGS: INYAS – Indian National Young Academy of Science and its flagship event - Women in Scientific Domains (WiSDom) organized a capacity-building workshop for future women leaders, named WINGS (Work & Industry Neutral Growth Skills) during 8th-10th August, 2024 at IIT Bombay. Prof. Shobhna Kapoor, Department of Chemistry, was the convener from IIT Bombay.

Workshop on Active & Living Matter: The Department of Physics, IIT Bombay organized a workshop on “Active & Living Matter” during 28th-29th October, 2024. Prof. Anirban Sain was the convener.

Workshop on Advancing Connected and Autonomous Vehicle Technologies for Indian Ecosystem: The Department of Civil Engineering, IIT Bombay organized a workshop on Advancing Connected and Autonomous Vehicle Technologies for Indian Ecosystem on 10th December, 2024. Prof. Archak Mittal was the organizer.

Workshop on Implementation of FRP Reinforcements in Concrete Structure: The Department of Civil Engineering, IIT Bombay organized a workshop on “Implementation of FRP Reinforcements in Concrete Structures - Current

Trends and Future Prospects” on 13th December, 2024. Prof. Arghadeep Laskar was the organizer.

Workshop on Teaching Transversal Skills Using Tangibles: The Parimal and Pramod Chaudhari Centre for Learning and Teaching (PPCCLT), IIT Bombay organized a workshop on “Teaching Transversal Skills Using Tangibles” on 13th January, 2025. The workshop was conducted by Dr. Joelyn de Lima, Scientist and Pedagogical Advisor at the Ecole Polytechnique Fédérale de Lausanne (EPFL). Prof. Sahana Murthy was the convener.

Workshop on Laboratory Safety: Practices and Protocols: The Fire and Safety Section, Office of Dean, Infrastructure Planning & Support (IPS) organized a workshop on Laboratory Safety: Practices and Protocols on 22nd January, 2025

Joint workshop on Applications of Advanced Analytical Techniques in Research and Industry: The Sophisticated Analytical Instrument Facility (SAIF)/ Centre for Research in Nanotechnology and Science (CRNTS), IIT Bombay; Centre for Sophisticated Instruments and Facilities (CSIF), IIT Bombay and Indian National Academy of Engineering (INAE) Mumbai Chapter jointly organized a workshop on “Applications of Advanced Analytical Techniques in Research and Industry” during 18th-19th February, 2025. Prof. Suparna Mukherji (Head, SAIF/ CRNTS), Prof. Anindya Datta (Head, CSIF) and Prof. S.V. Kulkarni (Co-Chair, INAE Mumbai Chapter) were the conveners.

Expert-Level Workshop on CCUS and CDR: The Department of Earth Sciences, IIT Bombay, in collaboration with the International Energy Agency (IEA), hosted an Expert-Level Workshop on Carbon Capture, Utilization & Storage (CCUS) and Carbon Dioxide Removal (CDR) during 21st-23rd February, 2025. The event was inaugurated by the Chief Guest and Plenary Speaker Dr. V. K. Saraswat, Hon'ble Member, NITI Aayog, Government of India, alongside Prof. Shireesh Kedare, Director, IIT Bombay and Prof. Vikram Vishal, Convener, National Centre of Excellence in CCUS (DST-supported).

Seed Funding for Collaboration and Partnerships Project (SCPP)- Institution of Eminence (IoE) sponsored Workshops

Stakeholder workshop on Sustainable Rural Development: Empowering Communities for Progress: The Centre for Technology Alternatives for Rural Areas, IIT Bombay organized a stakeholder workshop on “Sustainable Rural Development:

Empowering Communities for Progress”, during 4th-5th October, 2024. Prof. Pennan Chinnaamy was the Chair and Prof. Chaaruchandra A. Korde was the Co-Chair.

Workshop on Alternative Therapies for Antibiotic Resistance: The Department of Biosciences and Bioengineering, IIT Bombay organized a workshop on “Alternative Therapies for Antibiotic Resistance” on 22nd October, 2024. Prof. Kiran Kondabagil and Prof. Sandip Kaledhonkar were the organizers.

Workshop on Recent Advances in Ichnology and Sedimentary Geochemistry: The Department of Earth Sciences, IIT Bombay organized a national seminar and workshop on “Recent Advances in Ichnology and Sedimentary Geochemistry”, during 26th-28th October, 2024. Prof. Santanu Banerjee and Prof. Sudipta Dasgupta were the joint conveners.

Workshop on Resource Recovery Options from Waste generated in Sugar mills and Distillery Wastes: The Environmental Science and Engineering Department, IIT Bombay organized a one-day workshop on “Resource Recovery Options from Waste generated in Sugar mills and Distillery Wastes” in collaboration with Griffith University, Australia on 28th October, 2024. Prof. Anurag Garg was the convener.

Workshop on Advances in Modelling WaveStructure Interaction Processes: The Department of Civil Engineering, IIT Bombay organized a one-day workshop on “Advances in Modelling WaveStructure Interaction Processes” on 1st November, 2024. Prof. Srineesh V. K. was the convener.

Workshop on Atmospheric Convection: The Centre for Climate Studies organized a workshop on Atmospheric Convection during 14th-15th November, 2024. Prof. Vishal Dixit was the convener.

Workshop on Experimental and Machine Learning Aspects of Material Failure under Cyclic Loading and Hydrogen Environments: The Department of Metallurgical Engineering and Materials Science, IIT Bombay organized a workshop on “Experimental and Machine Learning Aspects of Material Failure under Cyclic Loading and Hydrogen Environments,” in collaboration with Fraunhofer IWM, Freiburg during 18th-19th November, 2024. Prof. Nagamani Jaya Balila and Mr. Kartikey Sharma (PhD student) were the organizers.

Workshop on Nature Meets AI: The IDC School of Design, IIT Bombay, organized a workshop on “Nature Meets AI: Unveiling the Secrets of Growth

and Decay in Plants” during 18th-29th November, 2024. Prof. Sugandh Malhotra was workshop host.

Workshop on Ultrafast Laser Micro-Fabrication: The Laser Advanced Materials Processing (LAMP) Lab, IIT Bombay and Laser Micromanufacturing Lab, KU Leuven, Belgium, jointly organized a workshop on “Ultrafast Laser Micro-Fabrication” on 22nd November, 2024. Prof. Deepak Marla was the convener.

Workshop on Modeling Deformation and Microstructure Evolution across Length and Time Scales: The Department of Metallurgical Engineering and Materials Science, IIT Bombay organized a workshop on “Modeling Deformation and Microstructure Evolution across Length and Time Scales” on 25th November, 2024. Prof. Anirban Patra was the convener.

Workshop on Polymer Processing for Microfluidics: The Department of Mechanical Engineering, IIT Bombay organized a one-day workshop on “Polymer Processing for Microfluidics” on 25th November, 2024. Prof. Prasanna Gandhi and Mr. Geetendra Raj (Research Scholar) were the organizers.

Workshop on Sustainability of Rural Solar Mini-grids in India and Namibia: Challenges and Opportunities: The Centre for Technology Alternatives for Rural Areas (CTARA), IIT Bombay organized a two-day workshop titled “Sustainability of Rural Solar Mini-grids in India and Namibia: Challenges and Opportunities”, as part of collaborative research project with a team from Namibia University of Science and Technology (NUST), Windhoek, Namibia during 26th-27th November, 2024. The workshop was co-funded through the SEED Centre at TUM, Germany. Prof. Anand B. Rao and Mr. Omkar Buwa (doctoral student) were the hosts.

Workshop on Micromechanics and its Applications: The Department of Metallurgical Engineering and Materials Science, IIT Bombay organized a workshop on “Micromechanics and its Applications”, in collaboration with Karlsruhe Institute of Technology, Germany during 26th-27th November, 2024. Prof. Nagamani Jaya Balila was the convener.

Workshop on Next MoVe: Inclusive Mobility & Vehicle Design: The IDC School of Design, IIT Bombay, in collaboration with Intelligent Mobility Design Centre (IMDC), Royal College of Art, London, organized a workshop on “Next MoVe: Inclusive Mobility & Vehicle Design” on 28th November, 2024. Prof. Nishant Sharma was the organizer.

Workshop on Constraint Solving & Synthesis: Two Sides of the Same Coin?

The Department of Computer Science and Engineering, IIT Bombay organized a workshop on “Constraint Solving & Synthesis: Two Sides of the Same Coin?” on 4th December, 2024. Prof. Supratik Chakraborty was the host.

Workshop on Metro Transit Systems in the Cities of Maharashtra: The Department of Civil Engineering, IIT Bombay organized a half-day workshop on “Metro Transit Systems in the Cities of Maharashtra” on 7th December, 2024. Prof. Gopal Patil was the organizer.

Workshop on 2D materials: Advances in Growth, Characterization and Applications: The Department of Metallurgical Engineering and Materials Science, IIT Bombay organized a workshop on “2D materials: Advances in Growth, Characterization and Applications” on 9th December, 2024. Prof. Tanushree H Choudhury was the convener.

International workshop on Seismic Risk and Resilience: Advanced Tools and Methodologies: The Department of Civil Engineering, IIT Bombay organized a one-day international workshop on “Seismic Risk and Resilience: Advanced Tools and Methodologies” on 9th December, 2024 in collaboration with University of Aveiro, Portugal and Global Earthquake Model (GEM) Foundation, Italy. Prof. Meera Raghunandan was the organizer.

Workshop on Offshore Wind Energy: The Department of Civil Engineering organized a one-day workshop on “Offshore Wind Energy” as part of ‘Sustainable Ocean Engineering, Technology and Developments’ event on 10th December, 2024. Prof. Manas R Behera and Prof. Srineesh V.K. were the organizers.

Workshop on DtfLxAI: The Centre for Educational Technology, IIT Bombay organized a workshop titled “CoIntelligence: Designing Technology for Learning using AI (#DTfLxAI)” on 11th and 14th December, 2024. Prof. Syaamantak Das was the organizer.

Workshop on AHDSL: The Department of Mathematics as part of MoU between IIT Bombay and North Carolina State University, organized a two-day workshop “Advances in High Dimensional Statistical Learning (AHDSL)” during 15th-16th December, 2024. Prof. Radhendushka Srivastava was the organizer from IIT Bombay.

Workshop on Advanced synchrotron-based characterisation of battery materials: The Department of Chemistry, IIT Bombay, organized

a one-day workshop on “Advanced synchrotron-based characterisation of battery materials”, on 16th December, 2024. Prof. Srinivasan Ramakrishnan was the organizer.

Workshop on Integrative Oncology: The Department of Biosciences and Bioengineering, IIT Bombay organized a workshop on “Integrative Oncology” during 16th-17th December, 2024. Prof. Shamik Sen was the organizer.

Workshop on Biomedical Devices & Diagnostics: The Department of Chemical Engineering, IIT Bombay organized a workshop on “Biomedical Devices & Diagnostics” on 19th December, 2024. Prof. Mahesh S Tirumkudulu was the organizer

Workshop on Glasses and Glassceramics for Dental and Healthcare Applications: The Department of Metallurgical Engineering and Materials Science, IIT Bombay organized a workshop on “Glasses and Glassceramics for Dental and Healthcare Applications” during 20th-21st December, 2024. Prof. Parag Bhargava was the organizer.

Workshop on CSR, ESG and Sustainability: The Shailesh J. Mehta School of Management, IIT Bombay hosted a two-day residential workshop on Corporate Social Responsibility (CSR); Environmental, Social and Governance (ESG) and Sustainability during 3rd-4th January, 2025. This workshop was supported by the Institute of Eminence Funds and the IIT Bombay Research Hub for Green Energy and Sustainability (GESH IITB). Prof. S.V.D Nageswara Rao (Head) was the convener. Prof. Trupti Mishra and Prof. Soumya G. Rajan were the course coordinators.

Workshop on Precipitation Variability and Extremes: Processes and Impacts: The Centre for Climate Studies, IIT Bombay organized a two-day workshop on “Precipitation Variability and Extremes: Processes and Impacts” during 6th-7th January, 2025. Prof. Rajagopalan Balaji (Professor, Department of Civil, Environmental and Architectural Engineering, University of Colorado (CU) Boulder, USA) and Prof. Akshaya Nikumbh (IIT Bombay) were the organizers.

Joint Workshop on Hydrology and Water Resources: The Center for Technology Alternatives for Rural Areas, IIT Bombay organized a hybrid workshop titled “Universiti Teknologi Malaysia (UTM)-IIT Bombay Joint Workshop on Hydrology and Water Resources” on 7th January, 2025. Prof. Pennan Chinnasamy was the convener.

Workshop on All Design is based on Deception:

The IDC School of Design, IIT Bombay organized a workshop on ‘All Design is based on Deception’- Exploring the intersection of visual storytelling and design principles through the lens of Sun Tzu’s Art of War on 10th January, 2025. It was conducted by Prof. Kok Chow Yeoh from Indiana University Southeast (IUS), New Albany, USA. Prof. Purba Joshi and Prof. Mandar Rane were the conveners.

Workshop on Advanced PhD Research Methods:

The Ashank Desai Centre for Policy Studies, IIT Bombay organized an advanced PhD research methods workshop titled “Case Studies as a Research Method in Public Policy, Human Resources, Business and Management Studies” and a Public Policy talk titled “Artificial Intelligence and the Futures of Work and Management: International Perspectives” by Prof. Greg J. Bamber (Professor, Department of Management, Monash Data Futures Institute and Co-Director, International Consortium for Research in Employment and Work, Monash Business School, Monash University, Melbourne, Australia) on 13th January, 2025. Prof. Rahul S. Sapkal was the convener.

Workshop on Masters and PhD Law and Economics Research:

The Ashank Desai Centre for Policy Studies, IIT Bombay organized a series of workshop on Masters and PhD Law and Economics Research (Empirical Legal Studies and Comparative Legal Studies Approach to Public Policies) and Public Policy Lectures during 16th-17th January, 2025. Prof. Rahul S. Sapkal was the convener.

Following are the details of the workshops:

- Mr. Mohammad Mahdi Khesali, PhD Scholar & Research Associate Institute of Law and Economics University Hamburg and Max Planck Institute for Research on Collective Goods, Bonn, Germany), delivered a talk titled “Interaction cum Workshop on Empirical Legal Methods Using NLP (Natural Language Processing) Method”
- Prof. Stefan Voigt, Director and Professor, Institute of Law and Economics, Faculty of Law, University of Hamburg, Germany, delivered a talk titled “Measuring Judicial Independence and Estimating Its Economic Effects”.
- Prof. Michael G. Faure Professor Law and Economics, Director Maastricht European Institute for Transnational Legal Research (METRO), Maastricht University, The Netherlands, conducted a workshop titled “An Application of Comparative Law and Economics As a Method in Public Policy”.

Workshop on Educational Technology in the Field:

The Centre for Educational Technology (ET), IIT Bombay organized a two-day workshop on ‘Educational Technology in the Field’ during 24th-25th January, 2025. Prof. Sahana Murthy, Head, ET was the convener.

International workshop on Adaptive and Connected Signal Control Systems for Urban Traffic Management:

The Department of Civil Engineering, IIT Bombay, organized an International workshop on Adaptive and Connected Signal Control Systems for Urban Traffic Management on 25th January, 2025. Prof. Tom Mathew was the convener.

Workshop titled Ultrafine-Grained Metallic Materials: Processing, Microstructures and Properties:

The Department of Metallurgical Engineering and Materials Science, IIT Bombay, organized a workshop titled “Ultrafine-Grained Metallic Materials: Processing, Microstructures and Properties” on 13th February, 2025. Prof. M.J.N.V. Prasad was the convener.

Workshop on APT 2025:

The Department of Biosciences and Bioengineering, IIT Bombay organized a workshop on Advances in Proteomics Technologies (APT)-2025 during 14th-15th February, 2025. Prof. Sanjeeva Srivastava was the convener.

Workshop on Genomics and Transcriptomics:

The Department of Chemical Engineering, IIT Bombay organized a three-day workshop on Genomics and Transcriptomics during 28th February-1st March, 2025. Prof. Sarika Mehra was the Chair. Prof. Santanu Ghosh (Department of Biosciences and Bioengineering (BSBE)), Prof. Sushil Kumar (Department of BSBE) and Prof. Saket Choudhary (Koita Centre for Digital Health) were the Co-Chairs.

Workshop on Cryogenics Engineering:

The Department of Mechanical Engineering, IIT Bombay organized a workshop on Cryogenics Engineering on 6th March, 2025. Prof. Milind Atrey, Deputy Director (Academics, Research and Translation (ART)) and INOX Chair Professor (HAG) of Cryogenics was the convener.

Workshop on Typography and Storytelling:

The IDC School of Design (IDCSoD), IIT Bombay organized a workshop on the theme of ‘Typography and Storytelling’ on 6th March, 2025, with support from India Design Association (InDEAS) and Aksharaya. The workshops were chaired by Prof. Ravi Poovaiah (IDCSoD), Prof. G V Sreekumar (IDCSoD) and Dr. Ajanta Sen (representing (InDeAs), Director, Solar Project, Mumbai).

HINDI CELL

Hindi Cell is actively engaged in providing support for the implementation of the Hindi language in the Institute. In line with Section (3) 3 of the Official Languages Act, 1963, all documents, including the Institute's circulars, office orders, registers, forms, visiting cards, signboards, routine correspondence, annual reports and degree certificates, were prepared in bilingual form by the Hindi Cell.

Hindi Workshops:

During the year, the Hindi cell organized the following four workshops for Institute staff members:

- i. Noting and Drafting in Hindi by Mr. Harsh Mohan Krishnatrey on 13th June, 2024
- ii. Use and influence of Hindi language in various fields by Dr. Iswar Pawar on 20th September, 2024
- iii. Artificial Intelligence and Hindi by Dr. Anuradha Pandey on 20th December, 2024
- iv. Linguistics: An Academic Discourse by Dr. Krishna Kumar Misra on 10th January, 2025

Hindi Pakhwada:

The Institute celebrated "Hindi Pakhwada" during 14th-29th September, 2024, beginning with the 4th Akhil Bharatiya Rajbhasha Sammelan at Bharat Mandapam, New Delhi. IIT Bombay representatives, including Prof. Nand Kishore, Dean (); Mr. Ganesh Bhorkade, Registrar; Ms. Vrushali Sansare, Senior Assistant Registrar and Ms. Vaishali Bahulkar, Hindi Officer attended this event, which marked the 75th anniversary of Hindi being declared an official language by the Union of India.

During Hindi Pakhwada, the Central Library, IIT Bombay organised a Hindi book exhibition from 23rd-29th September, 2024, showcasing a variety of literary works that highlighted the richness of Hindi literature. Several competitions, including poetry recitation, dictation and essay-writing in Hindi, were organized for students of IIT Bombay and the Campus School. These activities not only fostered creativity and self-expression among students but also promoted the use of Hindi in an educational context.

Additionally, the Institute conducted various competitions focused on essay writing, quizzes about the Official Language and current affairs, as

well as practical exercises in noting, drafting and letter writing for staff members to encourage and enhance their proficiency in Hindi. Winners of these competitions received cash prizes and certificates.

Hindi Pakhwada concluded with a vibrant cultural evening on 30th September, 2024.

Dr. B. Tyagarajan, Joint Registrar (Academics) IIT Palakkad, Kerala, attended the concluding ceremony as a special guest. The event included a prize distribution ceremony for the various Hindi competitions organized during Hindi Pakhwada.

World Hindi Day Celebration:

On the occasion of World Hindi Day, the Institute organized a book discussion (Pustak Charcha) on "Agni Ki Udaan: Dr. A.P.J. Abdul Kalam", translated in Hindi by Arun Tiwari, on 10th January, 2025. The panel for this book discussion included Dr. Krishna Kumar Misra

Associate Professor, Homi Bhabha Center for Science and several IIT Bombay functionaries, including Prof. Nand Kishore, Dean (); Prof. S.V. Kulkarni, former Dean (); Mr. Ganesh Bhorkade, Registrar; Mr. Ajay Prasad (Deputy Registrar, Accounts Section); Ms. Valsala Kumari (Principal, IIT Powai Campus School and Junior College); Mr. R.K. Shukla (Hindi Teacher, PM SHRI Kendriya Vidyalaya, IIT Powai); Ms. Vaishali Bahulkar (Hindi Officer) and Ms. Khushi Kumari (PhD student).

Hindi Seminar:

As part of Hindi Pakhwada, the Institute hosted a Hindi seminar titled "Developed India @ 2047", presented by Dr. Shekhar Mande, a Distinguished Professor and J. C. Bose Fellow at the National Centre for Cell Science, on September 24, 2024. The lecture offered a thought-provoking perspective on the future of India and its progress as the country approaches its centenary of independence.

Hindi Training:

Every year, Hindi training classes (Parangat, Pragma, Praveen and Prabodh) are conducted by the Central Hindi Training Institute, Department of Official Language, Ministry of Home Affairs. This year, Hindi training was provided to 21 staff members, including 20 (Parangat course) and one (Praveen course).

FACILITIES



INFRASTRUCTURE DEVELOPMENT

Projects under construction stage:

- i) **Hostel 19:** Designed for 1051 students, this 9 storey building (33,518 m² built up area) is estimated to cost Rs. 125 crores.
 - ii) **Hostel 4:** Designed for 1260 students, this 9 storey building (37,015 m² built up area) is estimated to cost Rs. 182 crores.
 - iii) **Desai Sethi School of Entrepreneurship:** This 6 storey academic building (12,498 m² built up area) is estimated to cost Rs. 79.70 crores.
 - iv) **New Aerospace Department (originally called Centre of Propulsion Technology):** This 6 storey building (13,561 m² built up area) is estimated to cost Rs. 100 crores. Here, two floors will be dedicated to DRDO and remaining floors to Department of Aerospace Engineering.
 - v) **Extra High Voltage Electrical Receiving Station:** Considering the future requirement of the campus, the Institute decided to upgrade its electrical capacity. The estimated cost of this project is Rs. 126.35 crores.
 - vi) **New Students Activity Centre:** This 6 storey building (5672 m² built up area) is estimated to cost Rs. 44.87 crores. Here, two floors will be dedicated to NCC and remaining floors to students activities.
- IIT Bombay witnessed path breaking construction of two major projects this year, which are funded by external agencies:
- vii) **Project Evergreen:** The Institute is grateful to the IIT Bombay Alumni Association for successful completion of Project Evergreen (Hostel 7, 8 and 21). Designed to house 1137 students, this complex of built up area of 40,712 m² with an estimated cost of Rs. 195 crores is ready.
 - viii) **Additional wing for PM Shri Kendriya Vidyalaya IIT Powai:** Sponsored by the Shrimati Durgadevi Sharma Charitable Trust and Sharma Foundation, this new wing (6142 m² built up area) is estimated to cost Rs 17 crores.
 - ix) **Academic Science Block 2:** This 7 storey building (10,744 m² built up area) is estimated to cost Rs. 86.49 crores. It is demarcated for Central Animal Facility lab and other Bio Research facilities.
 - x) **Academic Science Block 1 for Department of Chemistry and Chemical Engineering:** This 10 storey building (32,705 m² built up area) is estimated to cost Rs 372.70 crores.
 - xi) **Academic Block AB1 and AB2:** This 10 storey building (36,296 m² built up area) is estimated to cost Rs. 263.93 crores. It is demarcated for research in various fields, including metallurgical research related to mild steel.
 - xii) **Efficiency Apartments:** This massive complex includes two 22 storey towers (50,169 m² built up area) is estimated to cost Rs. 298.62 crores. It will house 309 1RK apartments for married students and 120 2BHK flats for new faculty members.
 - xiii) **Hostel 14D and 12E:** These two additional wings are proposed to be added to the existing hostels. Designed for 500 students, these wings are estimated to cost Rs. 104 crores.

Projects under planning and tender stage:

- i) **Residential Tower B26 for 75 flats of type B:** This 22 storey tower with 75 flats for senior faculty members (18,943 m² built up area) is expected to cost Rs. 99 crores.
- ii) **Residential Tower B27 for 75 flats of type B:** This 22 storey tower with 75 flats for senior faculty members (18,943 m² built up area) is estimated to cost Rs. 99 crores.
- iii) **Residential tower for 76 flats of type II(B):** Designed for staff, this 22 storey tower (13,000 m² built up area) is estimated to cost Rs. 68 crores.
- iv) **IIT Bombay Research Hub:** This 10 storey building (17,540 m² built up area) will have modular spaces for future users.
- v) **Centre of Excellence in Drone Technology:** This 45 meters high building (1805 m² built up area) is meant for research and development in drone technology.
- vi) **Multi Level Car Parking 1:** This multi level car parking will have 13,270 m² built up area.
- vii) **Multi Level Car Parking 2:** This multi level car parking will have 13,192 m² built up area.
- viii) **Academic Block 3 and 4:** This 10 storey building (32,840 m² built up area) is proposed for academic and research facilities.
- ix) **New Hostel 6:** Designed for 1000 students, this project (36,000 m² built up area) will be undertaken after demolition of existing hostel 6.
- x) **New Hostel 9:** Designed for 1000 students, this project (36,000 m² built up area) will be undertaken after demolition of existing hostel 9.
- xi) **New building for Alumni Association:** This building will cater to the requirements of Alumni Association and Dean ACR.

CENTRAL LIBRARY

The Central Library at IIT Bombay continues to play a pivotal role in supporting the academic and research endeavours of the Institute. With a user-centric approach, the library caters to the information needs of faculty, students, researchers, staff, alumni and external users from academia and industry.

The library is housed in a centrally air-conditioned, three-storey building, offering a modern and welcoming environment conducive to study and research. Equipped with state-of-the-art infrastructure and a user-friendly layout, the facility supports seamless access to resources and services. The professional staff provide efficient and courteous service to ensure a smooth user experience.

The library maintains an extensive collection across disciplines, including engineering, science, technology, humanities and social sciences. The holdings include e-journals, research databases, print books and e-books, back volumes of journals, technical reports, monographs, standards and specifications, theses and dissertations, as well as newspapers and magazines.

The Central Library remains a vibrant academic

hub with high engagement levels throughout the year. Currently, it offers around 38,01,207 full-text e-resources and 5 lakhs of print resources.

In 2024, the library recorded approximately 15 lakh user footfall, lending out about 58,873 books. The library portal and OPAC logged over a million searches. According to Scopus metrics, the Institute had 2,209 publications, 144415 citations and an average of 191.53 citations per faculty member. During this year, the library facilitated the online submission of 875 Master's degree dissertations, 512 PhD theses and 176 Dual Degrees dissertations through the Electronic Thesis and Dissertation (ETD) system.

The library's collections continue to expand, with new titles added regularly. In 2024-25, the library has added about 1694 volumes (books, reports, standards) and 1486 e-books during the year. All resources can be accessed through the Online-Public Access Catalogue (OPAC) and Institute IP ranges, including remote access.

The library continued to provide an array of user-focused services, such as book lending and document delivery, reference and consultation services, Inter-library loan (ILL), a Book Bank for

socially and economically disadvantaged students, user orientation and awareness programs, online book renewal, self-checkout stations, photocopy and printing services, 24/7 reading hall access and research support (Turnitin, Grammarly, Overleaf access). Other services include electronic theses and dissertations (ETD) access; children's literature collection; internship opportunities for Library and Information Science graduates and discussion and meeting room facilities.

The Central Library utilizes open-source software, including WordPress (for the Library Portal), Koha (for Library Automation), Omeka (for Institute Archive Management), DSpace (for institutional repository) and VIVO (for faculty research profile management) to manage operations and digital services.

Outreach Activities:

The Central Library organized various events to

promote research literacy, digital engagement, usage of library resources, services and scholarly communication, including:

- Book Exhibitions during 23rd-29th September, 2024
- Hindi Pakhwada Celebrations during 23rd-29th September, 2024
- National Librarians' Day with Guest Lecture by Dr. Shalini R. Urs on 12 August, 2024
- National Conclave on the Future of Libraries on 25th October, 2024
- All IIT Librarians Meet on 26th October, 2024
- Author Talks and User Education Programs

The Central Library remains committed to advancing IIT Bombay's academic excellence by enhancing access to knowledge resources, upgrading digital services and nurturing a collaborative research culture.

COMPUTER CENTRE

During the year 2024-25, the Computer Centre (CC) continued to deliver improved, efficient and robust computer network infrastructure, IT services and telecommunication support to the IIT Bombay user community. Academic activities such as admission tests, regular classes and seminars were seamlessly conducted through various web-conferencing platforms, including Cisco WebEx, Zoom, Google Meet and Microsoft Teams, where applicable. These platforms were provisioned, integrated, maintained and managed by the Centre using the Lightweight Directory Access Protocol (LDAP) with Single Sign-On (SSO) and secured by Two-Factor Authentication (2FA).

To enhance user experience and security, the 'IITB-SSO' mobile application—available for both Android and iOS—was made available, enabling quick and secure access to various services integrated with IITB-LDAP. Online course registration, including for newly admitted students, was facilitated over the Internet. In many cases, students were able to complete the registration process remotely from their hometowns.

Additionally, the Centre continued to offer OpenVPN

(Open-source Virtual Private Network) services, allowing students, faculty and staff to securely access the Institute's computing facilities from remote locations. With its wide-ranging scope of operations, the Computer Centre remains the silent backbone of most computer-related activities on campus.

Network and Connectivity

The Computer Centre (CC) at IIT Bombay is responsible for managing and maintaining the campus-wide network infrastructure, ensuring seamless connectivity within the Institute and to the external internet. The Centre oversees approximately 25,000 wired nodes distributed across all academic departments, hostels, residential complexes and strategic locations, including campus entry and exit gates.

In addition to wired connectivity, wireless access points have been deployed across various departments and key locations on campus. These provide Wi-Fi access authenticated via the IITB-LDAP system through a RADIUS server. The following key activities and developments were undertaken during the year:

- **Backbone Infrastructure:** The campus network backbone comprises five high-capacity switches,

each operating at 40 Gbps. All 32 departments, 18 hostels and six residential network kiosks were connected with a 10 Gbps bandwidth. Furthermore, around 200 residential buildings have wired connectivity delivering 1 Gbps bandwidth to each house.

- **Routing and Internal Connectivity:** The intranet network is managed using the OSPF (Open Shortest Path First) routing protocol, supporting 406 distinct routes across the Institute.
- **Wi-Fi Upgrade:** The Centre is deploying a controller-based Wi-Fi 6 solution across academic and hostel networks, which includes a total of 1,600 indoor and outdoor access points to enhance wireless connectivity and coverage.
- **Network Upgrades:** The existing hostel network switches were upgraded to the latest technology, including new 40 Gbps/ 10 Gbps uplink switches. The outdated distribution and access layer switches were replaced to improve overall network performance.
- **Internet Bandwidth:** The campus maintained a total internet bandwidth of 20 Gbps. This includes 10 Gbps from the National Knowledge Network (NKN), 10 Gbps from BSNL initially and later on from Reliance Jio. Internet bandwidth is managed using BGP (Border Gateway Protocol) routing with appropriate high-performance router switches and servers.
- **IP Address Management and Security:** The Institute continues to use four Class C IPv4 address ranges allocated by APNIC for public-facing services. TLS (Transport Layer Security) certificates were procured from DigiCert to ensure secure access to the Institute's websites and services.
- **Residential Access Management:** To enhance privacy and security, separate passwords are issued for users at residential locations, allowing employees to avoid sharing credentials with family members.
- **Field Support Services:** The network field support team ensured the timely resolution of network issues, enabling uninterrupted online classes whenever needed, meetings and critical operations during peak periods.

- **Non-Academic and Residential Networks:** The Computer Centre also manages the networks in non-academic areas, hostels and residential zones. External Wi-Fi access points cover common areas in student hostels. Different network SSIDs provide segmented access:
 - **IITB-Wireless:** For authenticated IIT Bombay users, Wi-Fi access is being made available in most department premises and the work is in progress to attain 100% wi-Fi availability in all academic departments/ divisions.
 - **IITB-Guest:** For guests visiting the campus, provision has been made such that internet access can be enabled by the Institute Guest House front desk upon the arrival of the Institute Guest.
 - **EduRoam:** For academic visitors affiliated with EduRoam partner institutions, access is continued.
 - **IoT Integration with Campus Utilities:** The campus network enables the Electrical Maintenance Division to remotely monitor and manage Power Distribution Systems, lift operations and UPS systems, thereby enhancing the operational efficiency and safety of critical infrastructures.

National Knowledge Network (NKN):

IIT Bombay remained an active member of the National Knowledge Network (NKN) during the year. This high-speed, multi-gigabit network initiative, launched by the National Informatics Centre (NIC) and managed by the Computer Centre, is utilized by the academic unit, Centre for Distance Engineering Education Programme (CDEEP), to deliver distance education programmes effectively across the country.

Grid Computing Facility – GARUDA:

The Computer Centre at IIT Bombay supports the Grid Computing Facility GARUDA, initiated by C-DAC (Centre for Development of Advanced Computing), India, during the year 2004-05 to create a national grid infrastructure for scientific and engineering research supported by the Department of Information Technology (DIT), Government of India with partners over 45 academic and research institutions across India (IITs, IISc, CDAC centres,

etc) enabling users across the Institute to access and utilize computational resources available on the National Grid. This integration facilitates high-performance computing and collaborative research by connecting to a nationwide network of shared infrastructure.

Honeypot Server:

The National Cyber Coordination Centre (NCCC), a key agency under the Government of India responsible for cybersecurity and electronic surveillance, has deployed Honeypot servers at the Computer Centre of IIT Bombay. These servers are strategically configured to detect potential cyber threats by emulating vulnerable systems designed to attract malicious activity.

The NCCC continuously monitors these Honeypots and provides regular reports on suspected attacks and attacker behaviour. This timely intelligence enables IIT Bombay to take proactive security measures and enhance the resilience of its IT infrastructure.

Hardware and Software Infrastructure:

The Computer Centre at IIT Bombay continues to deliver essential services leveraging robust, open-source software systems. All service offerings are built on open-source platforms, aligning with the Institute's commitment to cost-effective and flexible IT solutions.

The Centre operates an anonymous FTP server (<ftp://ftp.iitb.ac.in>), through which IIT Bombay serves as an official mirror site for multiple Linux distributions. This repository is publicly accessible, benefiting the wider user community with reliable access to various Linux versions.

To support the Institute's Enterprise Resource Planning (ERP) system, the ERP infrastructure is hosted in the Computer Centre's Data Centre (DC). The Centre's technical staff actively manages the ERP hardware to ensure consistent performance and availability.

As part of its focus on cybersecurity, the Centre has procured a DigiCert Verified Mark Certificate (VMC) SSL for the domain iitb.ac.in, enhancing email security and offering stronger protection against threats such as phishing and email spoofing. This certificate is valid for a period of one year.

A major infrastructure upgrade was enabled through

funding from the Higher Education Financing Agency (HEFA)—a joint initiative of Canara Bank and the Ministry of Education, Government of India. Through this funding, the Centre procured data centre hardware and accessories valued at ₹ 13.4 crores, enabling the replacement of the decade-old server farm. This significant upgrade includes:

- Self-cooled server racks to support the efficient housing of network and compute equipment
- A 500 TB enterprise-grade storage system, which provided the users of IIT Bombay to have larger mailbox sizes for their institutional emails.
- 40 high-performance enterprise servers for compute-intensive workloads made the end user experience smoother and faster.

With the deployment of this enhanced infrastructure, the mailbox storage quotas for faculty, staff and students have been doubled, significantly improving the user experience and capacity for communication and collaboration.

Hyper-Converged Infrastructure (HCI) Implementation Using Proxmox VE

The Computer Centre (CC) has successfully deployed a Hyper-Converged Infrastructure (HCI) using Proxmox VE (Virtual Environment)—an open-source and cost-effective virtualization platform. This strategic implementation integrates computing, storage and networking into a unified system, offering centralized management, high availability and seamless scalability for the Centre's virtualization needs.

Key Highlights of the Implementation:

- Over 150 virtual machines, servers, applications and services have been migrated to the Proxmox-based HCI platform.
- The infrastructure now supports:
 - High Availability (HA) for critical services
 - Software-defined storage using Ceph, ensuring data redundancy and scalability
 - Unified, web-based administration, simplifying system management

This modernization significantly enhances system performance, fault tolerance and operational efficiency, while also reducing dependency on legacy or proprietary technologies.

Mailing List System Upgrade – Mailman3 with SSO Integration

As part of its broader infrastructure upgrade, the Computer Centre has transitioned the Institute's mailing list system from Mailman2 to Mailman3. The new system introduces a host of modern features designed to improve usability, security and maintainability.

Key Enhancements:

- Modern web-based management through the Pistorius interface
- Improved archiving using HyperKitty
- Single Sign-On (SSO) integration, providing seamless user authentication and access
- Enhanced scalability and ease of maintenance

This upgrade supports the Centre's goal of delivering secure, user-friendly and efficient communication tools for the IIT Bombay community.

Fire Safety Upgrades – Data Centre

To strengthen safety protocols and comply with fire protection standards, the Computer Centre has upgraded the fire safety infrastructure within its data centre. The upgrades include:

- Installation of certified fire-rated doors with intumescent seals
- Integration of self-closing, biometric access-controlled mechanisms
- Enhancements to the fire suppression system for improved containment and response in emergency situations

These measures ensure greater safety for critical IT assets and personnel, aligning with best practices for data centre risk mitigation.

Data Centre Fire Detection and Suppression System Upgrades

In parallel with fire safety enhancements, the Computer Centre has modernized its fire detection systems to ensure comprehensive protection of sensitive electronic equipment in the data centre. This upgrade includes the deployment of clean-agent fire suppression systems that are safe for IT hardware.

Key Upgrades Include:

- Installation of advanced smoke detection systems such as VESDA (Very Early Smoke Detection

Apparatus) for early threat identification

- Implementation of environmentally safe suppression agents such as Novec 1230 or FM-200, which do not harm electronic equipment or leave residue
- Strict adherence to relevant fire safety standards, with all work executed with minimal disruption to ongoing operations

These critical enhancements aim to minimize fire risk, protect vital infrastructure and ensure continued compliance with regulatory requirements.

Wi-Fi Coverage and Hostel Network Infrastructure Upgrade

To enhance wireless connectivity across the campus, especially in student hostels and high-traffic areas, the Computer Centre is in the process of procuring new Wi-Fi access points. This initiative will significantly improve signal coverage, user experience and network reliability.

Additionally, the structured cabling infrastructure in many student hostels—some of which are over 20 years old—is being upgraded in a phased manner. This includes:

- Replacement of outdated cabling with modern, high-performance structured network cables
- Installation of new, state-of-the-art network switches
- Project funding facilitated through the Higher Education Financing Agency (HEFA) program

These upgrades are expected to boost overall network performance, reduce maintenance challenges and ensure long-term scalability for future demands.

Educational Software

IIT Bombay continues its membership in the Microsoft Azure Education Software Licensing Program, which grants the user community access to most Microsoft software products for non-production use. The Institute has acquired volume licenses for the latest Microsoft Office Professional suite to meet critical institutional requirements, supporting up to 100 activations.

The Institute Software Committee is key in identifying, specifying and negotiating the procurement of commercially licensed software tailored for the academic community. The

Computer Centre manages acquiring, upgrading and administering various scientific and technical software packages such as Ansys, Matlab, LabView and video conferencing tools like Cisco WebEx (5 host licenses) and Zoom (20 host licenses for educational use).

The Computer Centre maintains floating network licenses for numerous specialized software packages, including Ansys, Abaqus, AutoCAD, Comsol, Maple, Mathematica, OriginLab and SPSS. These licenses are allocated based on the requirements of students, faculty, scientists and staff. The Centre also monitors and analyzes software license usage to optimize the availability and allocation of licenses across the Institute.

Furthermore, the Institute holds a campus-wide license for MATLAB through the MathWorks online portal, supporting over 16,000 registered users. These users can download licensed copies of MATLAB for academic and research purposes.

The Institute has introduced digital sessions for its high-level conferences to promote a paperless office environment and enhance administrative efficiency. This facility allows members and experts to participate remotely via the web to review and finalize conference proceedings. The Computer Centre hosts the servers and software infrastructure to support these digital conferencing sessions.

Main Building Hardware Infrastructure

The Computer Centre manages over 775 desktop machines deployed across various administrative sections of the Institute. In alignment with its commitment to cost-effectiveness and security, the Centre actively promotes and implements the use of Open Source Software Systems for office automation on these PCs.

During the year 2024–25, the Centre upgraded key hardware components, replacing:

- 25 Intel i5 all-in-one desktop computers
- 11 laptops
- 26 printers
- 50 computer monitors

The widespread adoption of open-source operating systems and software has significantly reduced the incidence of computer viruses, thereby optimizing

IT support efforts and lowering maintenance overheads related to network management and desktop computing.

Word Processing Tools, Facilities and Support:

The Computer Centre offers comprehensive Open Source Operating Systems support, providing word processing applications such as OpenOffice.org and LibreOffice. These tools can handle multiple Indian languages, with special emphasis on Hindi, enabling users to create multilingual (bilingual) documents efficiently.

Documents created using OpenOffice.org or LibreOffice—available on both Windows and Mac OS platforms—can be saved in formats fully compatible with Microsoft Office, allowing seamless editing and sharing across different software environments.

IIT Bombay has purchased Licenses for Google Workspace for Education, managed and administered by the Computer Centre, so that document preparation using Google's services has become more comfortable.

User Awareness Sessions:

The Computer Centre regularly conducts two-hour training sessions at appropriate intervals to familiarize administrative staff with the benefits and usage of applications available under Open Source Operating Systems for office automation. These sessions also provide comprehensive information about the IT infrastructure and services offered by the Computer Centre, ensuring users are well-informed and can utilize available resources effectively. Spreading Cyber awareness and cybersecurity are a part of these awareness programs. These awareness programs include the orientation of new students each semester and the newly joined staff members to the Institute.

The Computer Centre is now headed by Prof. Shivasubramanian Gopalakrishnan, who took charge from Prof. Prabhu Ramachandran in March 2025.

IP CCTV Surveillance Activity of the Institute:

The Computer Centre provides crucial technical support for installing and operating the Institute's IP-based Security Surveillance Systems, including a network of 284 IP cameras and associated storage managed by the Security Section.

Additionally, the Centre has independently acquired, installed and currently manages 16 IP CCTV cameras monitoring critical areas within the Computer Centre building itself. This building also houses key departments such as Computer Science and Engineering, Application Software Centre and the Centre for Formal Design and Verification, making robust surveillance essential for security and operational safety.

High-Performance Computing (HPC) Facility:

To support cutting-edge research and meet the growing demand for world-class supercomputing resources, the Computer Centre operates a powerful HPE-CRAY system known as “SpaceTime-2”. This High-Performance Computing system features:

- 216 CPU-only nodes equipped with dual Intel Xeon 6148 processors
- 64 CPU + GPU nodes combining Intel Broadwell CPUs with Nvidia P100 GPUs
- A 1,000 TB parallel file system for high-speed storage
- A total peak performance of 1003 TFLOPS, significantly enhancing IIT Bombay’s capabilities in complex modeling and simulation

Operational for over five years, SpaceTime-2 currently serves more than 1200 users across various departments. During the COVID-19 pandemic, the system saw an unprecedented increase in usage as it remained accessible remotely, becoming a critical research resource.

In addition to SpaceTime-2, the Centre manages SpaceTime-X, a cluster of 49 HPE Apollo 6000 nodes, each with dual Intel Xeon 2680 v3 processors and 128 GB RAM. This cluster offers a theoretical peak performance of 45 TFLOPS and includes a 100 TB parallel file system for storage. SpaceTime-X supports over 50 users from various scientific research groups, providing essential computing resources for their projects.

Telephone Exchange:

The Telephone Exchange operates approximately 1,500 IP telephones (Voice over IP) over the Institute’s computer network and about 3,500 traditional telephone lines distributed across departments,

student hostels and residential buildings.

The 22-year-old exchange was replaced on 30.6.2024 and a new hybrid exchange was installed through BSNL, which supports both types of phones, i.e., IP phones and analog phones, including Wi-Fi phones and softphones. Provided backup for 0 dialing through the GSM gateway.

The new incoming MDF was installed without disturbing the existing MDF, thus causing the least inconvenience to the users. The MDF rack, therefore, was spared and reused for outgoing cable distribution, giving an aesthetic look to the exchange room.

Replaced the remote PBX with an FXS gateway at the Aerospace annex building and the old CSE building.

A new gateway was installed at Hostel-18 to cater to the nearby hostel areas to reduce the dependency on underground copper cables.

To improve mobile connectivity on campus, the exchange has installed two In-Building Solutions (IBS) units and now manages 12 mobile towers at strategic locations, out of which two were installed in FY 24-25 at VMCC and Main Building.

New In-Building Solutions (IBS) units are installed at the Hospital, RBTIC, VMCC, Staff Hostel and Main building to improve/ boost the internal mobile network.

The Computer Centre oversees a dedicated help desk to assist users with telecommunication and related services. This help desk’s twenty-year-old web-based interface was recently upgraded with IITB-SSO integration for enhanced security and usability.

Additionally, three MTech students from the Department of Computer Science and Engineering actively contribute to maintaining and managing various Computer Centre facilities.

The Bits and Bytes Lab:

The Computer Centre also manages 120 all-in-one desktop computers and data projection systems in the Bits and Bytes Lab, supporting user access and facilitating bookings for courses, examinations and Institute events. Reservations for labs and conference rooms can be conveniently made online through the Computer Centre’s website.

DEPARTMENTS, CENTRES AND SCHOOLS

Science & Engineering Departments:

The engineering departments at IIT Bombay offer undergraduate and postgraduate programmes leading to B.Tech., B.S., M.Tech. and Ph.D. degrees. The five-year Dual Degree programme pioneered by the Institute in 1996 offers a B.Tech. degree in a basic discipline and an M.Tech. degree with specialisation in a field on its completion. This programme is now offered by all engineering departments. The science departments at IIT Bombay were set up to provide a basic grounding in science and mathematics to engineering students. However, apart from providing core courses in undergraduate programmes, these departments also offer postgraduate courses which lead to an M.Sc. or Ph.D.

Arts and Humanities Department:

The Art and Humanities Department at IIT Bombay were set up to familiarise the students of Science and Technology studies with the broader social, cultural, economic, ethical and humane concerns underlying social change. The advanced courses offered at the postgraduate level aim at cultivating critical thinking and enhancing the analytical capabilities of students engaged exclusively with the study of these concerns. These departments offer postgraduate courses which lead to MSc, BDes, MDes and PhD.

In addition to the existing degree programmes, new e-Postgraduate Diploma (ePGD) programmes have been introduced across various departments and centres including “AI and DATA Science” in the Centre for Machine Intelligence and Data Science (CMInDS); “E-Mobility” in the Department of Electrical Engineering; “Interaction Design” in the IDC School of Design and e-Postgraduate Diploma in “Computer Science and Engineering” in the Department of Computer Science and Engineering.

Following are the science, engineering, humanities and design departments at IIT Bombay (as on July 2025):

Aerospace Engineering	Prof. A.M. Pradeep
Biosciences and Bioengineering	Prof. Shamik Sen
Chemical Engineering	Prof. Mahesh Tirumkudulu
Chemistry	Prof. Ruchi Anand
Civil Engineering	Prof. Tom Mathew
Computer Science and Engineering	Prof. Sharat Chandran
Earth Sciences	Prof. M. Radhakrishna
Economics	Prof. K. Narayanan
Electrical Engineering	Prof. Harish K. Pillai
Energy Science and Engineering	Prof. Manaswita Bose
Environmental Science and Engineering (ESED)	Prof. Munish Kumar Chandel
Humanities & Social Sciences (HSS)	Prof. Pooja Purang
Industrial Engineering and Operations Research (IEOR)	Prof. Jayendran Venkateswaran
Mathematics	Prof. Krishna Shivsubramanian
Mechanical Engineering	Prof. Atul Sharma
Metallurgical Engineering and Materials Science (MEMS)	Prof. Ajay Panwar
Physics	Prof. Subhabrata Dhar

Schools:

Desai Sethi School of Entrepreneurship (DSSE)	Prof. Trupti Mishra
IDC School of Design (IDC SoD)	Prof. Anirudha Joshi
Shailesh J. Mehta School of Management (SJMSoM)	Prof. S.V.D. Nageswara Rao

Centres offering academic degrees:

Some of the Centres offer postgraduate programmes and reflect the Institute's multi-disciplinary approach and emphasis on staying with leading-edge technologies in its academic approaches.

Ashank Desai Centre for Policy Studies (ADCPS)	Prof. Vinish Kumar Kathuria
Centre for Defence Technology Innovation and Strategies (CDTIS)	Prof. Makarand Kulkarni
Centre for Machine Intelligence and Data Science (C-MinDS)	Prof. D. Manjunath
Centre for Research in Nanotechnology and Science (CRNTS)	Prof. Suparna Mukherji
Centre for Technology Alternatives for Rural Areas (CTARA)	Prof. Anand B. Rao
Centre for Traditional Indian Knowledge and Skills (CTIKS)	Prof. K. Ramasubramanian
Centre of Studies in Resources Engineering (CSRE)	Prof. Surya S. Durbha
Centre for Climate Studies	Prof. Subimal Ghosh
Centre for Educational Technology	Prof. Sahana Murthy
Centre for Systems and Control Engineering	Prof. Sukumar Srikant
IITB-Monash Research Academy (Section 8 Co.)	Prof. Prasanna Gandhi
Koita Centre for Digital Health (KCDH)	Prof. Ranjith Padinhateeri
IIT Bombay – Washington University in St. Louis (Section 8 Co.)	Prof. Dinesh Sharma

Academic Advisory

Centre for Liberal Education (CLE)	Prof. Rajesh Zele
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Centres of Academic Outreach (education and research)

National Centre for Mathematics (NCM)	Prof. Sudhir Ghorpade
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Centres offering Service

Application Software Centre (ASC)	Prof. Saravanan Vijayakumaran
Computer Centre (CC)	Prof. Shivasubramanian Gopalakrishnan
Centre for Distance Engineering and Education Programme (CDEEP)	Prof. Usha Ananthakumar
Parimal and Pramod Chaudhari Centre for Learning and Teaching (PPCCLT)	Prof. Sahana Murthy
Sophisticated Analytical Instrument Facility (SAIF)	Prof. Anindya Datta

Centres providing research and support facilities:

These Centres host a large number of sophisticated equipment and advanced facilities for carrying out R&D activities at IIT Bombay. The following are the research facilities at IIT Bombay:

Centre for Semiconductor Technologies (SemiX)	Prof. Udayan Ganguly
Centre of Excellence in Steel Technology (CoEST)	Prof. N.N. Vishwanathan
Centre of Excellence in Oil, Gas and Energy (CoE-OGE)	Prof. Yogendra Shastri
DRDO-Industry-Academia Centre of Excellence (DIA-CoE)	Prof. V. Venkateswara Rao
Centre of Excellence in Quantum Information, Computing, Science and Technology (CoE-QuICST)	Prof. Suddhasatta Mahapatra
Geospatial Information Science and Engineering (GISE)	Prof. Milind Sohoni
National Centre of Excellence in Carbon Capture and Utilization (NCoE-CCU)	Prof. Vikram Vishal
National Centre of Excellence in Technology for Internal Security (NCETIS)	Prof. B.G. Fernandes
National Centre for Photovoltaic Research and Education (NCPRE)	Prof. Suryanarayana Doolla
Wadhvani Research Centre for Bioengineering (WRCB)	Prof. Ashutosh Kumar
Biomedical Engineering and Technology Incubation Centre (BETIC)	Prof. Parag Bhargava
Tata Centre for Technology and Design (TCTD)	Prof. Santosh Noronha
Technocraft Centre for Applied Artificial Intelligence (TCAAI)	Prof. Manjesh Hanawal
Water Innovation Centre: Technology, Research and Education (WICTRE)	Prof. Shobha Shukla
Sunita Saghi Centre of Ageing and Neurodegenerative Diseases (SCAN)	Prof. Samir K Maji
Centre of Excellence on Membrane Technologies for Desalination, Brine Management, and Water Recycling	Prof. Swatantra Pratap Singh

Section 8 Companies

Society for Innovation and Entrepreneurship (SINE)	Prof. Nishant Sharma
IIT Bombay Development and Relations Foundation (IITB-DRF)	Prof. Ravindra Gudi
IITB-Research Park Foundation (IITB-RPF)	Prof. Vikram Vishal
Technology Innovation Hub Foundation for IoT and IoE (TIH-IoT)	Prof. Chandra Sekher Yerramalli

Hubs

Green Energy and Sustainability Hub	Prof. Sanjay M. Mahajani
SBI Foundation Hub for Data Science and Analytics	

Externally Funded Centres and Labs

IIT Bombay-FedEx Centre for Advanced Logistics and Analytics	Prof. Ashutosh Mahajan
IITB Trust Lab	Prof. Manoj Prabhakaran
HDFC-Ergo IIT Bombay (HE-IITB) Innovation Lab	Prof. Snehal Awate
GMP (Good Manufacturing Practice) Lab	Prof. Shamik Sen

DEPARTMENT OF AEROSPACE ENGINEERING

Established in 1966-1967 as the Department of Aeronautical Engineering, it was renamed the Department of Aerospace Engineering in 1992. The Department strives for a balance of academics, research and technology development, coupled with education beyond the classroom and co-curricular activities. It hosts MTech and PhD students from the armed forces, Hindustan Aeronautics Limited (HAL), the Indian Space Research Organisation (ISRO), the Defence Research and Development Organisation (DRDO) and various other government and private agencies related to Aerospace Engineering.

The faculty has contributed to national programmes like the Light Combat Aircraft (LCA), the Integrated Guided Missile Development Programme (IGMDP) and the Geosynchronous Satellite Launch Vehicle (GSLV) in various capacities, benefiting other fields such as biomedical engineering. The Department provides students with an opportunity to acquire a multidisciplinary perspective on engineering problems.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	33
No. of Post-Doc Fellows	06

Academic Programmes:

The Department offers degree programmes in BTech, MTech, a Dual degree and a PhD, with specializations in four broad areas: aerodynamics, dynamics and control, aerospace propulsion and aerospace structures. These programmes focus mainly on the science and engineering/ technology of flight vehicles and their sub-systems, covering fundamentals of fluid dynamics, propulsion, structural mechanics, vehicle dynamics, control and guidance etc., and their applications in the analysis and design of aerospace vehicles.

Total no. of students on-roll: 599

Programmes Offered	Students Intake	Degrees Awarded
BTech	80	81
DD (BTech +MTech)	-	02
IDDDP	-	02
MTech	65	50
DD (MTech +PhD)	-	04
PhD	14	12

R&D Activities:

The Department engages in basic and applied research in various sub-disciplines of Aerospace Engineering, including Aerodynamics, Propulsion, Structures, Dynamics and Control and Design.

The Department has a wide range of experimental facilities such as subsonic and supersonic wind tunnels, water tunnels, a stability tunnel, Laser Doppler Velocimetry (LDV) and hot wires, analog and hydraulic simulation rigs, rotor dynamics and engine test rigs, an Istron for structure testing, an autoclave for composite fabrication, an instrumented drop weight impact test apparatus and an aero-modelling lab.

Additionally, extensive computational facilities support research and teaching activities, featuring the Aerodynamic Lab, the Instrumentation Lab, the Structures Lab, the Propulsion Lab and Miniature Aerial Vehicle (MAV) Labs. Powerful serial and parallel computers are also available for sophisticated flow simulation in computational fluid dynamics and computational electromagnetics.

R&D Highlight:

A team of researchers led by Prof. Viren Menezes developed a shock syringe to deliver drugs without using needles. Their study, published in the Journal

of Biomedical Materials & Devices, compared the effectiveness of drug delivery via the shock syringe versus a traditional needle on laboratory rats.

The development of a shock syringe promises more than pain-free injections. It could make immunization drives quicker and more efficient for both children and adults. It could prevent the occurrence of bloodborne diseases caused by needle-stick injuries due to mishandling or improper disposal. <https://link.springer.com/article/10.1007/s44174-024-00239-4>

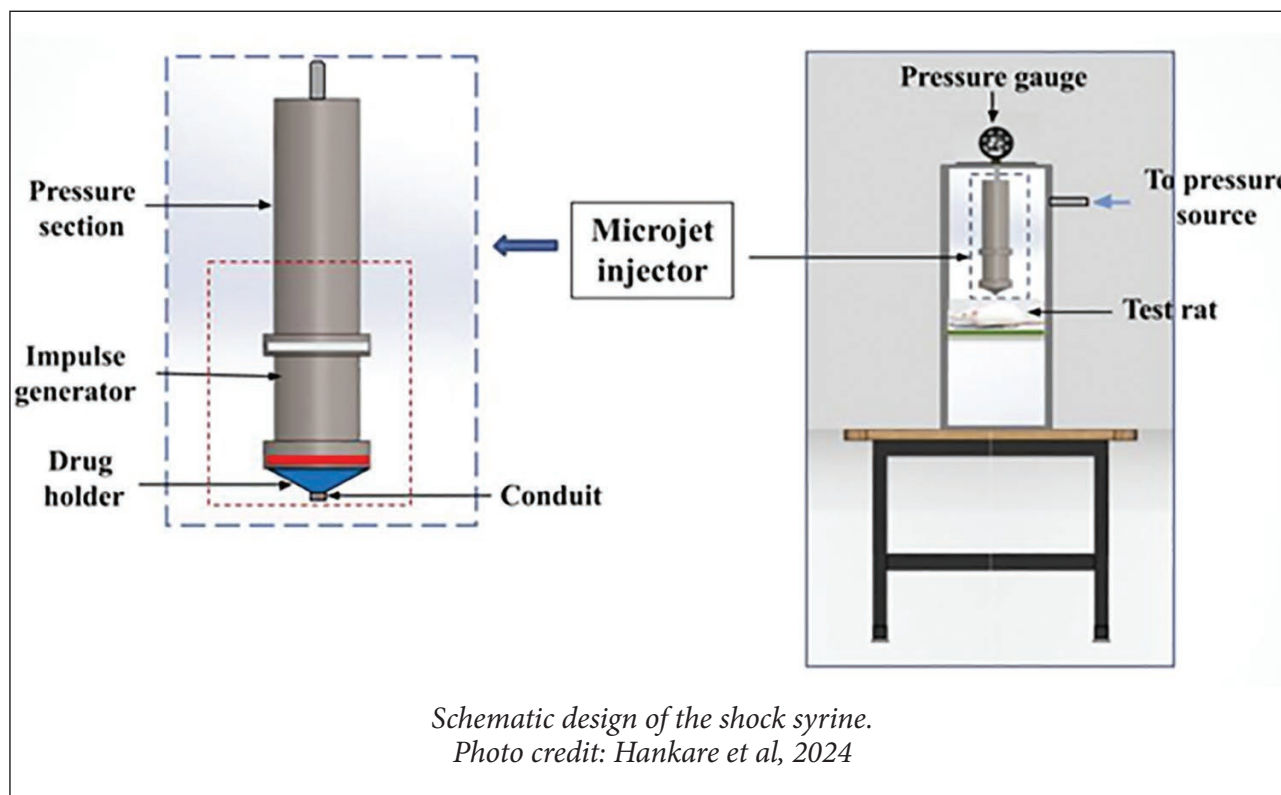
Outreach Activities:

During 2024-2025, the Department supported numerous students in technical activities such as Mars Rover, Student Satellite, Autonomous Underwater Vehicles (AUV), Unmanned Aerial Vehicles and both national and international competitions, serving as participants and organizers.

Projects	Sponsored Projects	Consultancy Projects
New Projects	12	11
Ongoing	28	12
Completed	16	08

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	53	60



DEPARTMENT OF BIOSCIENCES AND BIOENGINEERING

The Department of Biosciences and Bioengineering is a nodal centre for applying science and engineering principles to further fundamental knowledge and applications in biology and biomedical engineering. The Department continues to nurture and sustain the ambience for the pursuit of scholarly activity in research and education, to make an international impact and produce leaders of tomorrow in the fields of Biology and Biomedical engineering.

The Department faculty continues to provide thought leadership as part of several important committees of government bodies as well as other academic institutions.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	49
No. of Post-Doc Fellows	22

Academic Programmes:

The Department currently offers an MSc in Biotechnology, MTech in Biomedical Engineering and a PhD.

Total no. of students on-roll: 392		
Programmes Offered	Students Intake	Degrees Awarded
MSc	35	29
MTech	35	20
DD (MSc+PhD)	-	02
DD (MTech+PhD)	-	01
MTech (Exit)	-	02
PGDIIT (Exit)	-	01
M.S. By Research (Exit)	-	01
PhD	37	35

R&D Highlight:

Major research areas span both fundamental research

in cell, molecular and organism-level biology and applications in biomedical engineering. These include the development of:

- (i) affordable bubble T-piece resuscitator for neonatal use to address the unmet need for an accessible respiratory support
- (ii) framework to study diffusion and reaction of enzymes involved in histone modifications of genomes
- (iii) method to lower fat content in blood and testing the same in fish, elucidation of the functions of 14-3-3 group of proteins in chromosome segregation
- (iv) glucose-tolerant beta-glucosidases for use in bioethanol production
- (v) small animal imaging platform, light-based non-invasive devices for oral cancer screening and for monitoring cerebral blood flow
- (vi) microbial consortium capable of degrading aromatic pollutants and promoting plant growth
- (vii) proof-of-concept of an inertial microfluidic device for one-step label-free isolation of extracellular vesicles in 20 min from complex biological samples
- (viii) novel topological framework to study human gait in health and disease
- (ix) CAR-T platform technology program.

Discovery of (i) cell-autonomous immune mechanism to clear pathogens from the cytosol, (ii) intriguing molecular communication between two clinically important human fungal pathogens and (iii) a phage targeting *Klebsiella pneumoniae* to be used for phage therapy. Studies to understand phage-bacteria interactions that drive their coevolution, identification of functional neuroimaging markers associated with motor and cognitive impairments in individuals with Parkinson's, demonstration phase separation of p53 tumour suppressor in the nucleus and CRISPR-mediated gene editing for corrections of mutations causing spinal muscular atrophy.

The LISTEN lab of Prof. Sandeep Kalva focuses on the integration of optical and ultrasound-based technologies to develop innovative theragnostic solutions for various applications, including but not limited to breast cancer, rheumatoid arthritis, brain diseases and skin diseases.

High-end research equipment installed:

3D Bioprinter facility (by Prof. Shamik Sen and Prof. Abhijit Majumdar (Department of Chemical Engineering), Proxxon CNC lathe and milling, SIL laser cutter, Makita bandsaw, Dremel 3-in-1 rotary tool kit, contact angle goniometer, microplate reader, chemidoc, UV-vis spectrophotometers, etc.

Projects	Sponsored Projects	Consultancy Projects
New Projects	21	15
Ongoing	62	57
Completed	38	04

Outreach Activities:

- BIOS [Genvision-2024], the 27th edition of annual event of the Department, was held during 18th-19th January, 2025. Seven speakers from industry and academia gave talks, with more than 350 participants in attendance
- ‘Scientific Saturdays’ held during three weekends in January and February 2025, supported by IoE funds. This activity was overseen by Prof. Swati Patankar, Dr. Archana Shetty, Mr. Hrushikesh Nagwekar and a few faculty colleagues and PhD students. Grade 9th students and one biology teacher from schools in and around Mumbai were invited for this event.

Conference:

‘Pioneering the Future of Healthcare and Diagnostics Using 4D Omics’ on 12th November 2024, convened by Prof. Sanjeeva Srivastava

Workshop:

- Bioquest-2025, a biotechnology workshop

for school children held in February 2025, convened by Prof. Sanjeeva Srivastava

Student Achievements:

- Roshan Keshari (PhD Student):
 - PhD project nominated for the prestigious Modi Prix Galien Awards by the Galien Foundation, USA
 - Outstanding PhD Thesis Award by the Society of Biomaterials and Artificial Organs for his pioneering doctoral research in the field of nanomedicine for his work on lipid-based therapeutic platforms for targeted drug delivery
 - Outstanding Contribution to Pharmaceutical Research (Academic Category) by Informa Markets India Pvt. Ltd.. His PhD research, which focused on nanotechnology-driven lipid nanoparticles for psoriasis treatment, was recognized for its translational relevance and innovation in the pharmaceutical sciences
- Dr. Amreen Khan (Project Research Scientist from Prof. Rohit Srivastava's lab)
 - Received the “Best Oral Presentation Award” from the American Chemical Society at the International Conference on Current Advances in Drug Design and Translational Science: CADDTS-2025, for her research work in peptides
 - Won bioprinter (along with Prof. Rohit Srivastava), by the Next Big Innovation Labs at Bioprinting Contest
 - Recognized for the Outstanding Researchers Award by the Society for Biomaterials, USA

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	13	06	92

DEPARTMENT OF CHEMICAL ENGINEERING

The Department of Chemical Engineering at IIT Bombay started in 1958. Today, it is widely recognized in India for its strong academic programmes at both the undergraduate and postgraduate levels, extensive research output, industrial collaborations and diverse range of research areas.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	65
No. of Post-Doc Fellows	18

Academic Programmes:

The Department offers various programmes leading to BTech, MTech, PhD and Dual Degrees. This includes a strong core curriculum complemented by electives in the important emerging areas at both undergraduate and postgraduate levels.

A new course titled SLP-IDP (Supervised Learning Project–Industry Defined Problem) has been introduced for both undergraduate and postgraduate students, exposing them to open-ended problems posed by the industry.

Total no. of students on-roll: 906		
Programmes Offered	Students Intake	Degrees Awarded
BTech	132	147
MTech	50	12
PhD	28	26
DD (BTech+MTech)	-	02
DD (MTech+PhD)	-	01
BS (3-year)	-	02
IDDDP	-	06
PGDIIT (Exit)	-	02
MS by Research (Exit)	-	01

R&D Activities:

The Department has excellent experimental facilities for research and has strong links with industry interactions spanning consultancy, sponsored research and continuing education. The faculty members lead high-quality research programmes in a wide spectrum of areas.

Notable instruments acquired in 2024-25:

- Electro Phoresies system
- Reynold Apparatus
- Xenon Arc Light Source
- Computational Clusters
- Co2 Incubator

The newly built experimental facility for energy storage and conversion is fully functional and provides research students with opportunities to explore and investigate modern energy storage systems.

Projects	Sponsored Projects	Consultancy Projects
New Projects	14	18
Ongoing	67	60
Completed	34	15

Outreach Activities:

- AZeotropy 2025, the annual event of the Department, was organized by the undergraduate students to promote interaction between students, industry and academia. It saw participation from over 100 colleges, more than 50 industrialists in the field and a footfall of 2500 people on average.

Conferences on:

- ‘Micro Nanoplastics and their Environmental Impact’ on 13th August, 2024, led by Prof. Guruswamy Kumaraswamy

Workshops on:

- ‘Advancements in Biochar: Production, Applications and Market Dynamics Workshop’ on 27th June, 2024, led by Prof. Ojus Mohan
- ‘AUA Youth Forum 2024: A Fresh Outlook to Drug Discovery and Personalised Medicine’ during 11th-16th November, 2024, led by Prof. Abhijit Majumder
- ‘Porous Electrode Characterization for Battery Application’ on 20th November, 2024, led by Prof. Bharatkumar Suthar
- ‘IIT Bombay-Aalto University Workshop’ during 10th-11th December, 2024, led by Prof. Jyoti Seth, Prof. Rajdip Bandyopadhyaya, Prof. Guruswamy

Kumaraswamy, Prof. Amol Subhedar, Prof. Sayantan Dutta and Prof. Venkat Gundabala as organizers

- ‘Quantitative Biology of Collective Cellular Behavior’ on 13th December, 2024, led by Prof. Ganesh Viswanathan and Prof. Supreet Saini as organizers

Student Achievements:

The undergraduate students of Department secured first place in the Indian Institute Of Chemical Engineers (IChE) Prof. NR Kamath Annual Chemical Engineering Quiz, marking the second consecutive year that the IIT Bombay team has won this quiz.

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	02	30	145



Coin Cell facility



Temperature controlled battery characterization setup

DEPARTMENT OF CHEMISTRY

Founded in 1964, the Department of Chemistry at IIT Bombay is one of the leading academic units in India for education and research in chemical sciences. The Department is well-equipped to perform cutting-edge research through central instrumental facilities of the Institute and Department, as well as instruments built by individual faculty members.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	64
No. of Post-Doc Fellows	40

Academic Programmes:

The Department offers five academic modules, including a Master's degree, a Bachelor of Science (BS), a dual degree (BS+MSc), an integrated degree (MSc+PhD) and a PhD programme. The general chemistry programme of the Department harbours two theory and two laboratory courses in the core curriculum of the first-year BTech programme. The Department also offers minor and IDDDP programmes for BTech students of other departments of the Institute.

Total no. of students on-roll: 692		
Programmes Offered	Students Intake	Degrees Awarded
BS (4-year)	36	21
BSc (3-year)	-	02
MSc (2-year)	57	55
IDDDP	-	02
DD (MSc + PhD)	-	01
DD (BS + MSc)	-	04
MS By Research (Exit)	-	02
PhD	62	64

R&D Activities:

The Department actively pursues research problems of a basic, applied and interdisciplinary nature through sponsored and industrial research projects. Major

thrust areas of research include biophysical chemistry, coordination chemistry, bio-inorganic chemistry, organometallic chemistry, bio-organic chemistry, chemical biology, theoretical systems biology, membrane biology, chemistry of natural products, synthetic organic chemistry, photochemistry and spectroscopy, polymer chemistry, thermodynamics, electrochemistry, solid state chemistry and physics, catalysis, theoretical chemistry, statistical, mechanics and soft matter.

New Research Lab:

Bio-catalysis Lab, Mahesh Navani Collaborative Lab

New Instruments:

Sonicator for cell lysis – 1, Laminar air flow unit – 4, Plasmid isolation kit – 1, PCR instrument – 2, FLEX ISYNTH (ZC-001), HPLC – 1, ÄKTA – 1

Projects	Sponsored Projects	Consultancy Projects
New Projects	20	16
Ongoing	67	19
Completed	49	05

Outreach Activities:

The Department organized many outreach events in the year 2024-25, including:

Symposiums:

- 7th International Symposium on C-H Activation (ISCHA-7) during 6th-9th December, 2024 at IIT Bombay. Prof. Debabrata Maiti was the organizer from IIT Bombay
- MLK@85: Celebrating Simulations in Chemistry and Biology on 6th February, 2025. Prof. Ruchi Anand, Prof. Rajarshi Chakrabarti and Prof. Rahul Maitra were the conveners from IIT Bombay
- Post NOST 2025 on organic synthesis held on 7th March, 2025, convened by Prof. Santosh J Gharpure

Conferences:

- Continuous Process Intensification (CPI-24) Conference-cum-Workshop-cum-Expo held during 23rd-24th September, 2024. Prof. Suvarn S. Kulkarni was the convener
- Society of Physical Chemistry (SoPhyC) Conference held during 22nd-25th October, 2024, convened by Prof. Ruchi Anand
- 23rd International Conference on Systems Biology (ICSB 2024) on 30th November, 2024, chaired by Prof. Sandip Kar
- International Conference on Main-Group Molecules to Materials-4 (MMM-4) held during 9th-12th February, 2025, convened by Prof. Maheswaran S

Workshops on:

- “Chemical Biology of Nucleic Acids”, a joint workshop by IIT Bombay - Kyoto University, Japan, on 27th April, 2024
- Quantum Chemistry (Machine Learning Applied to Chemistry) on 20th June, 2024, convened by Prof. Achintya Kumar Datta
- Chemical Biology on 25th June, 2024, convened by Prof. Shobhna Kapoor
- Topics in Quantum Dynamics during 15th-16th July 2024, led by Prof. Amber Jain
- Spin-Phonon Relaxation in Molecular Magnets (SPMM), organized as part of the IoE/ IRCC Seed funding for International Collaboration (SCPP) on 29th October, 2024. Prof. R. Murugavel was the convener
- FCSXV, the 15th National Workshop on Fluorescence and Raman Spectroscopy during 16th-18th November, 2024 in Mumbai,

India. Prof. Ruchi Anand and Prof. Arindam Chowdhury were the conveners

- “Experimental and Theoretical Approaches to Excited State Dynamics” (SCPP) during 6th-7th December, 2024, convened by Prof. Anindya Datta
- Electron Paramagnetic Resonance Spectroscopy 2025 (WEPRS-2025) on 3rd February, 2025, convened by Prof. Maheswaran S

Student Achievements:

- Dinesh Kumar Raja, from Prof. Debabrata Maiti's group, received the ACS Best Poster Presentation award at the 18th Belgian Organic Synthesis Symposium 2024, held in Liège, Belgium
- Premananda Ghosh, from Prof. Debabrata Maiti's group, won the best poster award – JACS (Au) award on aliphatic C-H activation at the ICOMC 2024 Conference
- Raj Kumar, from Prof. Kamendra P Sharma's group, received the prestigious *Naik and Rastogi Award for Excellence in Ph.D. Research for the year 2022-2024* in Chemistry
- Harsha Maheshwari, from Prof. Kamendra P Sharma's group, won the best oral award from the Royal Society of Chemistry at the 29th International Liquid Crystal Conference 2024, held in Rio de Janeiro, Brazil
- Chandan Das, from Prof. Arnab Dutta's group, won the best poster award at the ACEAN 2024, held in Australia

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	02	06	290

DEPARTMENT OF CIVIL ENGINEERING

The Department of Civil Engineering has been a part of IIT Bombay since its inception in 1958. Over the years, the Department has grown tremendously and is now well-known as one of the best engineering departments in the country, ranking high in the world for Civil Engineering.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	64
No. of Post-Doc Fellows	38

Academic Programmes:

The Department offers BTech, MTech and PhD programmes. The postgraduate programmes offer seven different specializations, i.e. Transportation Systems Engineering, Geotechnical Engineering, Water Resources Engineering, Structural Engineering, Ocean Engineering, Remote Sensing and Construction Technology and Management.

Total no. of students on-roll: 1175		
Programmes Offered	Students Intake	Degrees Awarded
BTech	150	119
MTech	101	53
DD (BTech+MTech)	-	02
PhD	54	43
DD (MTech+PhD)	-	01
BS (3-year)	-	06
PGDIIT (Exit)	-	05
MS By Research (Exit)	-	01
MS By Research (Exit)	-	01

R&D Activities:

The Department hosts 23 physical laboratories and various other thematic labs. The National Geotechnical Centrifuge is one-of-its-kind in the country.

The broad research areas are traffic analysis and design, traffic flow modeling and simulation, travel demand modelling and forecasting, urban transportation planning, transportation network optimization, centrifuge modelling, environmental geotechnology, earthquake geotechnical engineering, dynamic

soil-structure interaction, foundation engineering, soil reinforcements, geosynthetic-reinforced soil structures, landslides, groundwater systems planning and management, computational fluid dynamics, urban drainage/ storm water management, diffusion of jets and plumes, global positioning system, remote sensing applications to water resources, structural dynamics and earthquake engineering, structural health/ condition monitoring, finite element analysis, design of nuclear containment structures, coastal, port and harbor engineering and research in the areas of construction materials and construction management.

Highlights:

- On 3rd February, 2025, the Indian Institute of Technology Bombay inaugurated the “*Prof. R. S. Ayyar Conference Room*” at the Department of Civil Engineering in the presence of Mrs. Parvathy Ayyar and Ms. Jayashree Subrahmonia, the wife and younger daughter of the late Prof. R. S. Ayyar. The event was attended by Prof. Shireesh Kedare, Director of IIT Bombay; Prof. K.V. Krishna Rao, Ex-Deputy Director, (Finance, Infrastructure and Administration (FIA)); Prof. Milind Atrey, Deputy Director (Academics, Research and Translation (ART)); Prof. P. Vedagiri, Dean (Infrastructure Planning and Support (IPS)); Prof. Ravindra Gudi, former Dean (Alumni and Corporate Relations (ACR)); Prof. Tom Mathew, Head of the Department of Civil Engineering, along with students, faculty and staff members.
- The Department of Civil Engineering received 1st Prize under the Best Academic Unit category for Clean Campus Drive as part of the Clean & Green Campus Initiative 2024, for two consecutive years in October 2024 and March 2025.
- Prof. Balaji Ramakrishnan from the Ocean Engineering group, has been deputed as the Director, National Institute of Ocean Technology (NIOT), Ministry of Earth Sciences (MoES), Government of India.

Projects	Sponsored	Degrees Awarded
New Projects	18	566
Ongoing	51	570
Completed	28	450

Outreach Activities:

Workshops on:

- (SCPP) “Climate Water Energy Nexus: Modeling, Synthesis and Future Directions” during 15th-16th July, 2024, by Prof. Eldho. T.I
- (IoE-SCPP) “Conservation of Heritage Structures” on 21st September, 2024, led by Prof. Swathy Manohar
- “Forward and Inverse Modeling in Civil Engineering” on 23rd September, 2024, led by Prof. Pinom Ering
- (SCPP) Advances in modelling wave structure interaction studies on 1st November, 2024, led by Prof. Srineash V. K
- (IoE-SCPP) Advancing Travel Demand Models Using Emerging Data Sources on 18th November, 2024, by Prof. Sangram Nirmale
- (SCPP) Implementation of FRP Reinforcements in Concrete Structures - Current Trends and Future Prospects on 13th December, 2024, by Prof. Arghadeep Laskar
- Metro Transit Systems in the cities of Maharashtra on 7th December, 2024, by Prof. Gopal R. Patil
- Seismic Risk and Resilience on 9th December, 2024, by Prof. Meera Raghunandan
- (International) Advancing Connected Autonomous Vehicle Technologies for Indian Ecosystems on 10th December, 2024, by Prof. Archak Mittal
- Sustainable Ocean Engineering, Technology and Developments during 10th-12th December, 2024, by Prof. Manasa R. Behera and Prof. Srineash V. K
- (International) Seismic Isolation, 13th January, 2025, by Prof. Manish Kumar
- (International) Adaptive and Connected Signal Control Systems For Urban Traffic Management, 25th January 2025, by Prof. Tom. V. Mathew.
- Sustainable Transportation through Research and Innovative Design (STRIDE) during 6th-7th February, 2025, by Prof. Avijit Maji
- Second Indian Cryosphere Meet (2025) during 14th-15th February, 2025, by Prof. RAAJ Ramsankaran
- (International) Recycling Techniques for the Construction of Sustainable Pavement on 18th February, 2025, by Prof. Dharamveer Singh and Prof. Solomon Debbarma

Conferences on:

- 15th International Conference on Transportation Planning and Implementation Methodologies for Developing Countries (TPMDC) during 18-20th December, 2024 led by Prof. Avijit Maji and Prof. Nagendra R Velaga
- Symposium on International Best Practices in the Design of Tall Buildings on 6th August, 2024 by Prof. Najeeb Shariff M
- International Symposium on Steel Constructions jointly organised with University of California, Davis, USA, American Society of Civil Engineers India Section, American Society of Civil Engineers India Section Western Region and ISCA on 28th September, 2024, led by Prof. Ravi Sinha. The event was financially supported by IoE funds through the SCPP project and ANRF-VAJRA.

Student Achievements:

- The Hon'ble Chief Minister of Maharashtra inaugurated the connecting bridge between Mumbai Coastal Road (south) and Bandra Worli Sea Link (BWSL) on 12th September, 2024, in the presence of 16 Civil Engineering students (UG, PG and PhD) of IIT Bombay.
- The EERI-IIT Bombay Student Chapter was the only Indian team to participate in the Seismic Design Competition (SDC-2025). This event was organized by the Earthquake Engineering Research Institute (EERI) in the USA at the University of California, Berkeley, in March 2025. The team achieved an overall 15th position out of 48 teams, ranking 10th in Communication (an improvement from 27th place in 2024), 12th in Seismic Performance, and 13th in Architecture. Under the mentorship of Prof. Meera Raghunandan, the team consisted of 25 undergraduates, with seven participants present at the event. They designed a robust balsa wood model that successfully survived the ground motion shake table testing.

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	11	29	122	280

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering is one of the largest departments in India, known for its research and academic programmes.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	57
No. of Post-Doc Fellows	02

Academic Programmes:

The Department offers programmes in BTech, MTech, Dual Degree (BTech+ MTech), MS (by Research) and PhD. In addition, the e-Postgraduate Diploma, an online program designed for students and working professionals, offers access to high-quality technical education and empowers a geographically diverse audience.

Total no. of students on-roll: 1212		
Programmes Offered	Students Intake	Degrees Awarded
BTech	201	168
BSc (3-year)	-	04
MTech	116	78
DD (BTech+MTech)	-	01
DD (MTech+PhD)	-	02
PhD	24	16
MS by Research	36	19
MS by Research+ PhD	-	02
MTech+ MS by Research	-	01
PGDIIT (Exit)	-	02

R&D Activities:

The Department conducts research and teaching spanning a broad spectrum of areas, including algorithms, combinatorial optimization, graph theory, cryptography, formal methods, verification, theoretical computer science, graphics, image processing and analysis, computer vision,

information retrieval, artificial intelligence, machine learning, reinforcement learning, natural language processing, speech processing, medical image computing, functional programming, embedded systems, compilers, mobile computing, object-oriented systems, parallel and distributed processing, programming languages, databases, query processing and optimization, real-time systems, security, software engineering, cloud computing and virtualization, performance analysis and wireless networks.

Projects	Sponsored Projects	Consultancy Projects
New Projects	19	08
Ongoing	88	27
Completed	28	08

Student Achievements:

- Vedang Dharendra Asgoankar (BTech) has received the President of India Gold Medal and is a recipient of the Miss Jayati Deshmukh Memorial Gold Medal and the Dilip R Limaye Academic Excellence Award
- Dr. Abhijeet Awasthi (Advisor: Prof. Sunita Sarawagi), has received the Association for Computing Machinery (ACM) India 2024 Honorable mention for his doctoral dissertation titled “*Learning Language Processing Models With Limited Labeled Data*”
- Drashthi D (an active member of the CompEcon research group under Prof.Swaprava Nath) and Preeti Kiran (a member of the SynerG research group under Prof. Mythili Vutukuru) have been awarded the Asha Navani PhD Fellowship in recognition of their outstanding academic achievements and research potential in their respective areas
- PhD students Ashwin Kumar (advised by Prof. Mythili Vutukuru) and Vatsala Sharma (advised by Prof. Suyash Awate) have received the Microsoft Research India PhD Award 2024
- Four students Supriya Bhide (student of Prof.

Uday Khedker), Anvay Shah (student of Prof. Shivaram Kalyanakrishnan), Tejomay Padole (student of late Prof. Pushpak Bhattacharyya and Prof. Suyash Awate) and Debojeet Das (student of Prof. Mythili Vutukuru and Prof. Purushottam Kulkarni) have received the TCS Research Scholarship 2024

- BTech students (shared) Vaibhav Raj and Virendra Kabra, Amit Kumar Mallik (Dual Degree), Bhumika Sanjay Khetan (MTech) and Ashutosh Bhalchandra Sathe (MS by Research) are the recipients of Institute Silver Medal 2024

Outreach Activities:

Notable Events

- **Research and Innovation Symposium in Computing (RISC) 2025**, held during 22nd-23rd March, 2025, brought together distinguished researchers and students to showcase cutting-edge advancements in computer science. The event highlighted breakthrough research across various tracks, including AI/ ML, computer systems and theoretical computer science. With 174 participants, RISC 2025 served as an excellent platform for in-depth discussions, networking and fostering future collaborations within the academic community. Prof. Varsha Apte was the convener.
- **C++ Programming Bootcamp for Women Undergraduates**, hosted during 14th-16th February, 2025, aimed to empower women in the field of technology. Over 90 participants from nine states engaged in hands-on learning and problem-solving sessions in C++ programming, equipping them with the skills needed to excel in the ever-evolving tech landscape. This initiative reflects IIT Bombay's commitment to promoting gender diversity and providing equal opportunities in STEM education. Prof. Varsha Apte was the convener.
- **Programming Languages and Compilers in Industry Day (PLACID) 2025**, held during 29th-30th March, 2025, provided a platform for experts from industry and academia to discuss the latest trends and advancements in programming languages and compilers. The

workshop was organized by Prof. Uday Khedker and Prof. Manas Thakur, with participation from professionals and researchers across various fields.

Conferences:

- e-Yantra Symposium and Competition Grand Finale, led by Prof. Kavi Arya
- 27th International Conference on Theory and Applications of Satisfiability Testing (SAT), led by Prof. Supratik Chakraborty

Workshops:

- (2-days) Introduction to Embedded Systems and Robots at Indus University, Ahmedabad, Gujarat, led by Prof. Kavi Arya
- Anomalous Activity in Digital Financial Systems by Prof. Manoj Prabhakaran (Principal Investigator), IIT Bombay Trust Lab
- (2-days) Sustainability - Ideation and Innovation and Entrepreneurship, led by Prof. Kavi Arya
- Translational AI, organized by TCA2I and Trust Lab
- Geometry Meets Graphs by Prof. Sujoy Bhowe
- CPU-GPU Security by Prof. Biswabandan Panda
- (SCPP) Blockchain Research, led by Prof. Vinay Ribeiro and Prof. Chethan Kamath
- (SCPP-IOE) Constraint solving and synthesis: Two sides of the Same Coin?
- Hardware Security by Prof. Biswabandan Panda and Prof. Sayandeep Saha
- Practical Aspects of Digital Personal Data Protection Act (DPDPA) 2023 Implementation by Prof. Manoj Prabhakaran (Principal Investigator), IIT Bombay Trust Lab
- (SCPP-IOE) Building Trust in AI: Formal Reasoning, MDPs and Probabilistic Models by Prof. S. Akshay
- eYIC 2024-25: Ideation workshops by Prof. Kavi Arya

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	152	43

DEPARTMENT OF EARTH SCIENCES

The academic programmes in Earth Sciences began in 1959 with the establishment of a section in the Department of Civil Engineering. As this program expanded, it became a separate Department of Earth Sciences in 1982. Since then, it has developed into one of the leading academic units in the field of the Earth Sciences. The Department is interdisciplinary and comprises a diverse faculty engaged in high-quality teaching and research. Over the past twenty-five years, more than 1,800 students have graduated from the Department, which is now recognized as one of the best in the country for teaching, research and placements.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	27
No. of Post-Doc Fellows	12

Academic Programmes:

The Department offers degree programmes in MSc (Applied Geology), MSc (Applied Geophysics), MTech (Geo-exploration), MTech (Petroleum Geosciences) and a PhD.

Total no. of students on-roll: 397		
Programmes Offered	Students Intake	Degrees Awarded
MTech	27	10
MSc (Applied Geology)	38	37
MSc (Applied Geophysics)	18	19
PhD	27	12
PGDIIT (Exit)	-	05

R&D Activities:

The Department is actively involved in basic and applied research and consultancy providing high-quality technical advisory support through various R&D projects and consultancy to multiple organizations. The Department is well-equipped with laboratories to support teaching and research activities.

New Research Lab:

Satellite and Aerogeophysics (SAERO) Lab: This Lab focuses on various static and time-variable gravity, magnetic and geodetic dataset applications that include hydrogeodesy, mineral exploration, geodynamic reconstruction, lithospheric modelling etc.

New research equipment installed:

Trimble R12i DGPS is a Global Navigation Satellite System (GNSS) that operates in both Base and Real Time Kinematic (RTK) mode. It features an integrated Inertial Measurement Unit (IMU) system, which enhances its performance in RTK mode. It includes two Trimble R12i receivers, four rechargeable batteries, one tripod, one rover rod, connecting cables, transport cases and accessories.

Projects	Sponsored Projects	Consultancy Projects
New Projects	03	07
Ongoing	17	30
Completed	09	09

Outreach Activities:

- IIT Bombay (through Institute of Eminence) and the International Energy Agency (IEA) hosted an Expert-Level Workshop on Carbon Capture, Utilization & Storage (CCUS) and Carbon Dioxide Removal (CDR), during 21st-23rd February, 2025
- Carbon Reset Summit* was hosted by IIT Bombay Research Hub for Green Energy and Sustainability (GESH) and CarbonCrew, in partnership with the Nand & Jeet Khemka Foundation Carbon Removal India Alliance (CRIA) and remove in Mumbai on 08th October, 2024

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	05	08	26	79

DEPARTMENT OF ECONOMICS

The Department of Economics was established in January 2023, recognizing the growing importance of Economics as a discipline and its emphasis on rigorous quantitative and analytical reasoning. The Department's objective is to stay ahead of the latest developments in the field, produce high-quality research and graduate well-trained students. The cutting-edge research conducted by the Department helps in policymaking for the government and government agencies and in decision-making for organizations.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	15
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Academic Programmes:

The Department of Economics offers a BS in Economics, a PhD programme, and a minor specialization in economics for undergraduate students of the Institute.

Total no. of students on-roll: 212		
Programmes Offered	Students Intake	Degrees Awarded
BS	40	32
IDDDP	-	03
PhD	06	03

R&D Activities:

Faculty members in the Department are engaged in several research projects, both independently and in collaboration with faculty from other departments at IIT Bombay, as well as through international research networks and partnerships. They conduct research on advanced areas and disciplines as well as interdisciplinary themes such as Climate Studies, Digital Health, Education Technology, Policy Studies and Urban Science and Engineering. Some faculty members also serve as associate faculty in these academic units.

Projects	Sponsored Projects	Consultancy Projects
New Projects	01	-
Ongoing	02	04
Completed	01	-

Outreach Activities:

- A two-day conference on 2nd Meeting in the Frontiers of Economics, during 17th-19th February, 2025, convened by Prof. Tara Shankar Shaw
- Workshop on Microeconomic Theory on 3rd August, 2025, led by Prof. Saptarshi P Ghosh

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	04	24	20



Faculty, speakers and participants during the IoE-sponsored workshop on Evolutionary Foundations of Economic Behaviour held at IIT Bombay on 15th January, 2025

DEPARTMENT OF ELECTRICAL ENGINEERING

The Department of Electrical Engineering has grown significantly from its inception in 1958 and has since become one of the major departments at IIT Bombay. The Departmental goals are focused on the old and new curricula and continue to build professional systems to facilitate excellent research. Some faculty are actively engaged in notable activities under SemiX platform (Centre for Semiconductor Technologies) related to the semiconductor industry in India.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	86
No. of Post-Doc Fellows	12

Academic Programmes:

The Department offers a BTech, MTech, PhD and a five-year Dual Degree (BTech+MTech) with specializations in Communications and Signal Processing and Microelectronics. The Department will offer two new ePGD (Executive Post Graduate Diploma) programmes in (i) Analog/ Mixed-Signal/ RF IC Design in Practice and (ii) E-Mobility.

Total no. of students on-roll: 1745		
Programmes Offered	Students Intake	Degrees Awarded
BTech	112	98
DD (BTech+MTech)	89	62
MTech	171	129
DD (MTech+PhD)	-	07
PhD	49	40
MS by Research (Exit)	-	03
PGDIIT (Exit)	-	02
IDDDP	-	19
BS (3-year)	-	03

R&D Activities:

Faculty actively pursue research in the areas of Communications and Signal Processing, Control and Computing, Power Electronics and Power Systems, Solid State Devices, Electronic Circuits and Integrated circuits and systems. The Department hosts around 75 physical research and teaching laboratories. Recently, the Department added two more new laboratories: Cyber Physical Systems Lab and the Quantum Cryogenic Lab.

New Facilities purchased:

1. High-Configuration VLSI Server: Prof. Laxmeesha S has procured a high performance VLSI Server used for teaching and research of IC design courses/ projects. This server is being used for simulation and verification of IC designs, as well as other high-end compute required for IC design research.

2. TCAD Servers: Prof. Sandeep Mondal procured five servers, amounting around ₹1 crore, for TCAD (Technology Computer-Aided Design) and HSPICE simulations, used in semiconductor device and circuit design.

Projects	Sponsored Projects	Consultancy Projects
New Projects	34	33
Ongoing	91	49
Completed	40	18

Outreach Activities:

- Symposium on “Magnetism and Spintronics” (SMS 2024 workshop) during 18th-20th July, 2024 organized by Prof. Ashwin Tulapurkar and Prof. Bhaskaran M
- Workshop on “Packaging and integration of power electronics” on 8th August, 2024 convened by Prof. Shiladri Chakraborty
- The Department's General Secretary hosted an event titled “*Converting Research Projects into Deep Tech Ventures*” for senior undergraduate, postgraduate and PhD students on 31st August, 2024, providing a comprehensive road map for transitioning from academia to entrepreneurship
- E-Mobility Tech Day organized by Prof. Sandeep Anand on 13th September, 2024
- Workshop on “Impact of Inverter-based Resources on Power Systems” by Prof. A. M. Kulkarni during 4th-5th November, 2024

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	106	119

DEPARTMENT OF ENERGY SCIENCE AND ENGINEERING

The Department of Energy Science and Engineering is a unique blend of science and engineering faculty working on developing sustainable energy systems and solutions for the future. The Department focuses on science and engineering for the energy sector, offering innovative education programs and research.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	28
No. of Post-Doc Fellows	10

Academic Programmes:

The Department offers programmes in BTech, Dual Degrees in (BTech+ MTech) and (MSc+PhD), an MTech programme in Energy Systems Engineering, a PhD programme and a minor in Energy Engineering programme.

Total no. of students on-roll: 531		
Programmes Offered	Students Intake	Degrees Awarded
BTech	48	02
MTech	30	25
PhD	18	15
DD (BTech+MTech)	-	26
DD (MSc+PhD)	20	06
IDDDP	-	02
MSc (Exit)	-	01
PGDIIT (Exit)	-	02
MS by Research (Exit)	-	01
MSc+ MS by Research	-	01
DD (MTech+PhD)	-	01
BSc (3 year)	-	01

R&D Activities:

The recent highlights in research and development include a grid-connected MW scale solar thermal power plant and test facility, self-cleaning solar PV modules, high-efficiency PV cells based on new materials, novel Li-ion batteries, improved flow fields for fuel cells and biofuel-based rural electrification.

DESE has cutting-edge fabrication, characterization, testing and demonstration facilities with

strong industrial linkages and international collaborations.

Projects	Sponsored Projects	Consultancy Projects
New Projects	07	18
Ongoing	41	32
Completed	17	06

Key Highlight:

Prof. Pratibha Sharma was invited as an Eminent Scientist by the Hon'ble President of India Smt. Droupadi Murmu to the 76th Republic Day celebrations for "At Home Reception" at the Rashtrapati Bhavan on 26th January, 2025. This remarkable recognition is a testament to Prof. Sharma's outstanding contributions to the field of energy science and engineering and her unwavering dedication to advancing innovation and research in India.

Outreach Activities:



- Energy Day 2024, was held during 6th-7th April, 2024. Prof. Shireesh Kedare and Prof. Lalit Kumar were the organizers
- Energy Education Conclave, held on 20th November, 2024. Prof. V. S. S. Pavan Kumar Hari and Prof. Sandeep Kumar were the organizers

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	01	11	101

ENVIRONMENTAL SCIENCE AND ENGINEERING DEPARTMENT

The Environmental Science and Engineering Department (ESED) was established in 1985 as a Centre and became a 'Department' in February 2019. Prior to this, an 'Environmental Science and Engineering Group' comprising faculty members from various allied disciplines existed on campus since 1977. The ESED is interdisciplinary in nature aiming to develop cutting-edge research, teaching and service towards better characterizing, predicting and responding to human-induced environmental change. The faculty members have multi-disciplinary backgrounds and diverse research interests.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	20
No. of Post-Doc Fellows	10

Academic Programmes:

ESED offers programmes in BTech, (BTech+MTech) and (MSc+PhD) Dual Degrees, MTech and a PhD. Additionally, a minor in Environmental Science and Engineering is offered to undergraduate students from other departments. A core course (ES200 and ES250) on "Environmental Studies" is available to all undergraduate and (MSc+PhD) students across academic disciplines to raise awareness about pollution prevention and environmental sustainability among them as informed citizens.

Total no. of students on-roll: 358		
Programmes Offered	Students Intake	Degrees Awarded
BTech	45	-
DD (BTech+ MTech)	-	23
DD (MSc+PhD)	08	01
MTech	20	21
PhD	17	07
MSc (Exit)	-	03

R&D Activities:

Faculty in ESED actively pursue sponsored research, consultancy and technical services across diverse

areas. The research activities of ESED are supported by excellent experimental and computational facilities as well as competent and dedicated technical staff and high-quality students. The ongoing research areas include:

- **Air quality:** Research in air pollution includes characterization of ambient and indoor air, development of IoT-based real-time air monitoring systems, source-specific real-time emission measurements, scalable air purification technologies, high-resolution weather and pollution forecasting models and longitudinal studies are conducted to assess the health effects of air pollution over time
- **Water and wastewater management:** Research includes advanced oxidation processes, adsorptive removal of contaminants, membrane-based desalination using indigenously developed technologies, environmental quantum chemical modelling and investigations into microplastics in food and aquatic systems. Pilot-scale demonstrations have proven management of urban storm water treatment and fluoride mitigation for better resource management
- **Solid and hazardous waste management:** Solid and organic waste research explores composting, hydrothermal pre-treatment, recovery of energy and materials from household, industrial and electronic waste and production of value products such as biogas, biochar, biofertilizers and other chemical
- **Environmental systems modelling:** System scales analysis currently focuses on the geospatial modelling of food systems and impacts on air and climate, development and deployment of decision-making models to optimize waste facility placement and for flood risk mapping and hydro-climatology studies

Projects	Sponsored Projects	Consultancy Projects
New Projects	-	27
Ongoing	15	38
Completed	12	12

Outreach Activities:

Conferences:

- “Smart Cities Workshop (SCW2024)-I and II: Concepts of Smart Cities for Sustainable Future”, organized in collaboration with Environmental Infrastructure and Clean Tech Laboratory (EICT), IIT Bombay, during 10th-11th July, 2024 and led by Prof. Anil Kumar Dikshit
- International Conference on ‘Applied Membrane Technology and Translational Research (AMTTR 2025)’ organized in collaboration with Gogri Hub for Membranes Research, IIT Bombay, during 3rd-4th March, 2025 and led by Prof. Swatantra Pratap Singh

Symposiums:

- ‘Circular Economy’ during 9th–10th December, 2024, organized by Prof. Pradip Kalbar and Prof. Munish Chandel
- “Municipal Wastewater Management: Gaps, Sustainability and Way Forward”, organized in collaboration with EICT, IIT Bombay on 10th February, 2025 and led by Prof. Anil Kumar Dikshit
- ‘Smart Sensors and Data Analytics for Air Quality Management’, organized by the Aerosol and Nanoparticle Technology Laboratory (ANTL), ESED, IIT Bombay, during 7th-8th March, 2025

Student Achievements:

Kamlika Gupta (PhD):

- Winner of the 3 Minute Thesis Award, Monash University
- Awarded Shastri Scholar Travel Grant by the Shastri Indo-Canadian Institute to attend the International Society of Exposure Science Conference in Montreal, Canada

Partho Mukherjee (PhD):

- Shri Girish Vishnuprasad Desai Award of Academic Excellence at the 62nd Convocation of IIT Bombay held in August 2024

Merin Susanna James (PhD):

- Best paper award in 9th International Conference on Sustainable Energy and Environmental Challenges, IIT Mandi, India

Shreya Dubey (PhD):

- Asian Aerosol Conference Travel Award

Mitil Koli (PhD):

- Best Poster Presentation award at the 7th International Symposium on Physics of Membrane Processes at Nanyang Technological University, Singapore
- Best Poster Presentation award at International Conference on Materials and Membranes for Water and Energy, Gujarat, India

Saptarshi Ghosh (PhD):

- Won 3rd prize in the best poster presentation category at the 27th Nanoparticles Conference held in ETH Zurich, Switzerland
- Received the Student Conference Award at the 18th International Conference of the International Society of Indoor Air Quality and Climate (ISIAQ), Indoor Air 2024, held during 7th-11th July, 2024, in Honolulu, Hawaii, USA

Nandini Dixit (MSc-PhD):

- Shri Girish Vishnuprasad Award for Excellence in Research at the 62nd Convocation of IIT Bombay held in August 2024

Rashmi Ranjan (MSc-PhD):

- Best Poster Award at the 1st International Conference on Transforming the Thar Ecoregion through Startups, Innovation and Entrepreneurship for Sustainable Development (THRIVE 2025), organized by IIT Jodhpur, Jodhpur, Rajasthan
- Best Poster Award at the Conference on Applied Membrane Technology and Translational Research (AMTTR-2025), organized by Gogri Hub for Membrane Research at IIT Bombay, Mumbai
- Best Poster Award at the National Environment Conference (2024), organized by ESED, IIT Bombay, India

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	16	83	96

DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES

Founded in 1958, the Department of Humanities and Social Sciences constitutes a dynamic academic environment that integrates the study of humanities and social science subjects in a premier technological institution. The Department fosters collaborations across various departments within the Institute as well as facilitates international research exposure, partnering with institutions such as Monash University in Melbourne, Australia, among others. The Department houses the disciplines of English Literature, Linguistics, Philosophy, Psychology, Sociology, CISTS (Sanskrit) and History.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	41
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Academic Programmes:

The Department offers PhD in all disciplines; an MA+PhD programme in Philosophy; an MA by Research programme with three specializations—Human Sciences; Linguistics, Literature and Performance; and Sociology as well as minor programmes. The Department offers courses to undergraduate students under the HASMED rubric, through various electives and minor programme, to introduce them to different modes of critical and creative thinking across humanities and social sciences. Support for the English language is also available through the Central facility—the Language Resource and Writing Cell.

Total no. of students on-roll: 265		
Programmes Offered	Students Intake	Degrees Awarded
DD (MA+PhD)	09	-
MPhil	-	01
MA Research	09	12
MA by Research (Exit)	-	03
MA (Exit)	-	01
DD (MPhil+ PhD)	-	01
PhD	18	26

R&D Activities:

Faculty members and students engage in multiple national and international projects with assistance

from government bodies like Indian Council of Social Science Research (ICSSR), Department of Science and Technology (DST) and other private sector institutions. Their research spans diverse areas such as computational linguistics, climate studies, organizational justice, digital media, innovation, gender and environmental change. The work is supported by the Psychology, Psychophysiology, Cognitive and Behavioural Neuroscience, Linguistics and Computer Labs.

Projects	Sponsored Projects	Consultancy Projects
New Projects	01	03
Ongoing	11	10
Completed	04	-

Outreach Activities:

The Department organizes and participates in various conferences and workshops, including:

Conferences:

- South Asian Forum on the Acquisition and Processing of Language (SAFAL)
- 11th Annual Conference of Cognitive Science (ACCS-11)
- Inheritance and Inequality in South Asia
- Gender Equity for Sustainable Societies
- International Symposium on the “Notions of Truth and Being”
- Psychological Challenges in Women with Polycystic Ovary Syndrome
- Agency, Mind and Value: Celebrating the 300 Years of Philosophy of Kant
- Performance Studies Conclave: Diversifying Perspectives from the Global South
- Wittgenstein Reimagined: Exploring Language, World and Mind through the Lens of Indian Philosophy

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	18	03	32

DEPARTMENT OF INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH

The Department of Industrial Engineering and Operations Research (IEOR) began its journey as one of the first interdisciplinary programs in 1976 and was officially designated as a Department in April 2024. Today, it offers full-time undergraduate and postgraduate courses and is actively involved in research, consulting and continuing education in the broad areas of operations, analytics, AI/ML and industrial engineering. The Department combines analytical modeling, computational algorithms, AI and data-driven methods to solve complex, real-world problems across domains such as logistics, supply chains, cyber-security, healthcare, energy, finance and more.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	15
No. of Post-Doc Fellows	03

Academic Programmes:

IEOR offers programmes in BTech, MSc, MTech, Dual Degree (MSc+PhD), PhD, IDDDP and BTech minor. IEOR offers a range of courses in optimization, stochastic models, simulation, statistics, machine learning, artificial intelligence, deep learning, supply chain, logistics, operations and service systems. The curriculum also includes computational labs that train students on various modelling and software tools that can help implement operations research theory and algorithms to solve practical problems.

Total no. of students on-roll: 178		
Programmes Offered	Students Intake	Degrees Awarded
BTech	40	-
MSc	15	-

MTech	38	22
DD (MSc+PhD)	-	06
DD (MTech+PhD)	-	02
PhD	08	02
MSc (Exit)	-	15
MS by Research (Exit)	-	04
PGDIIT (Exit)	-	01

R&D Activities:

Research in IEOR is broad-based and encompasses many areas of theory and application, including optimization of models, theory and algorithms, stochastic models, stochastic control, simulation modeling and analysis, learning modeling and analysis, game theory, logistics and transportation, supply chain analysis and inventory planning, financial engineering, health care systems. Faculty members served as referees for several journals and international conferences. IEOR has hosted several visitors from academia and industry during 2024-25. Faculty members visited various universities to pursue joint research.

Projects	Sponsored Projects	Consultancy Projects
New Projects	04	-
Ongoing	09	-
Completed	04	-

Outreach Activities:

- **IEOR Symposium 2024:** On April 24th, 2024, IEOR transitioned from an Interdisciplinary Program to the Department of Industrial Engineering and Operations Research at IIT

Bombay, officially launching its B.Tech program during a celebratory symposium. The event gathered faculty, students, and guests both in person and virtually.

The symposium opened with a welcome address from Prof. Jayendran Venkateswaran, followed by the formal inauguration by former Director Prof. Subhasis Chaudhuri. Former Dean (Academic Programmes) Prof. Avinash Mahajan introduced the newly launched B.Tech program and released the prospectus. A highlight was the keynote address by Prof. Manoj K. Tiwari, emphasizing the role of research in industrial engineering. Industry leader Ms. Goda Ramkumar shared insights from her career in Operations Research, while Prof. N. Hemachandra spoke on optimality and learning in service levels.

The ceremony honored founding faculty members Prof. Prakash G. Awate and A. Subhash Babu for their contributions. The event concluded with poster presentations from Ph.D. and M.Tech students, fostering discussion and collaboration. In his vote of

thanks, Prof. P. Balamurugan highlighted the collective effort that made the symposium a success, celebrating the department’s evolution and future innovations in the field.

- **IEOR Day 2025:** The IEOR Day 2025, an annual event, was held during 8th-9th March, 2025. The two-day event brought together a wide spectrum of participants including leading academicians, industry experts, researchers and students. It served as a dynamic platform for knowledge exchange, collaboration and discussion on real-world applications of IEOR, while also fostering deeper engagement between academia and industry.
- An international workshop on Mixed Integer Programming (MIP) to explore the latest advancements in mixed-integer programming and discrete optimization, held during 2nd–6th December, 2024.

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	16	15



Participants and faculty during the Mixed Integer Programming (MIP) international workshop held at IIT Bombay

DEPARTMENT OF MATHEMATICS

The Department of Mathematics has evolved and expanded in several directions, displaying consistently attracting and retaining top-tier faculty, bright, aspiring students globally and diverse research output, since its inception in 1958.

The faculty members are leading cutting-edge research across a wide spectrum of mathematical disciplines, including pure mathematics, applied mathematics and statistics that significantly contribute to the vibrant academic environment through comprehensive teaching and outreach programmes.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	59
No. of Post-Doc Fellows	21

Academic Programmes:

The Department offers a range of academic programmes, including a doctoral research programme designed for students pursuing careers in Mathematics or Statistics, both in academia and industry. These programmes include:

- (i) a four-year BS programme in Mathematics
- (ii) a five-year BS+MSc in Mathematics
- (iii) a five-year BS in Mathematics with an MSc in Statistics
- (iv) a two-year MSc in Mathematics
- (v) a two-year MSc in Statistics
- (vi) a five-year Integrated MSc in Mathematics
- (vii) an Interdisciplinary Dual Degree Programme (IDDDP) in Mathematics
- (viii) an IDDDP in Statistics
- (ix) a minor programme in Mathematics for BTech/ BS students
- (x) a minor programme in Statistics for BTech/ BS students

Total no. of students on-roll: 397		
Programmes Offered	Students Intake	Degrees Awarded
BS	20	11
BSc (3 year)	-	01
MSc (Including Applied Statistics and Informative)	82	68
DD (BS+MSc)	-	01
MS By Research (Exit)	-	01
PhD	15	07

R&D Activities:

The Department of Mathematics conducts basic, applied and interdisciplinary research across various areas, including Algebra and Number Theory, Analysis, Combinatorics, Partial Differential Equations, Geometry and Topology, Numerical Analysis, and Probability and Statistics.

Projects	Sponsored Projects	Consultancy Projects
New Projects	04	-
Ongoing	11	-
Completed	08	02

Outreach Activities:

During the year 2024-25, the Department held various national and international conferences, including:

- Operator Algebra and Related Topics during 24th-28th February, 2025. Prof. Bata K. Das, Prof. Sutanu Roy and Prof. Sandip Singh were the organizers
- Recent Advances in Probability and Statistics during 1st-5th January, 2025. Prof. Ayan Bhattacharya and Monika Bhattacharjee were the organizers
- Recent advances in Partial differential equations: Theory and Computation during 25th-26th December, 2024. Prof. Neela Nataraj and Dr. Debanjana Mitra were the organizers
- Advances in High-Dimensional Statistical Learning Conference during 15th-16th December, 2024. Prof. R. Srivastava was the organizer
- Harmonic analysis during 12th-14th December, 2024. Prof. Sanjoy Pusti was the organizer
- Local Rings and Singularities at IIT Bombay, held during 12th-15th June, 2024. Prof. Ananthanarayanan Hariharan and Prof. Sandip Singh were the organizers from IIT Bombay

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	02	02	64

DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering was established in 1958 and is one of the largest departments at IIT Bombay. It has a strong global footprint, with faculty members participating in international research collaborations, leading global research initiatives and serving as editors and reviewers for prestigious international journals. The faculty members contribute their expertise to advisory committees for funding agencies and as office bearers in prominent national societies within the field of mechanical engineering.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	68
No. of Post-Doc Fellows	31

Academic Programmes:

The Department offers BTech, Dual Degree (BTech + MTech), MTech and PhD degree programmes. The MTech programme offers specializations in the areas of (i) Thermal and Fluid Engineering (ii) Design Engineering and (iii) Manufacturing Engineering. Students can also pursue an undergraduate minor in Robotics and a postgraduate minor in any of the above specializations.

New elective offered: Mechanism Simulation and Synthesis (ME7001) by Prof. Anirban Guha

Total no. of students on-roll: 1506		
Programmes Offered	Students Intake	Degrees Awarded
BTech	203	170
MTech	119	67
PhD	46	36
DD (BTech+MTech)	-	36
DD (MTech+PhD)	-	03
BS (3-year)	-	05
IDDDP	-	08
PGDIIT (Exit)	-	04
MS by Research (Exit)	-	04

R&D Activities:

The Department maintains strong collaborations with industry leaders to address real-world challenges, including failure analysis and structural optimization for JSW Steel, structural design and performance testing for Technocraft, fatigue life enhancement of power plant components for Tata Power and the development of precision chemical dosing systems for Jay Chemicals. Supporting these activities is a robust infrastructure that includes laser-based directed energy deposition systems, advanced surface profilometry and microscopy tools, high-precision CNC and wire EDM machines and comprehensive FEA and CFD simulation suites. Together, these facilities empower both fundamental studies and industrially relevant innovations.

New research initiatives undertaken in below research areas are as follows:

- **Thermal and Fluid Engineering:** Non-Newtonian and Biofluid Mechanics; National mission for supercomputing; National mission for desalination.
- **Design engineering:** Fluid instabilities for micro-fabrication, synthesis of compliant mechanism systems, Dynamics and control of ultra-flexible systems, 3D microfabrication.
- **Manufacturing Engineering:** Laser-based additive manufacturing, micromachining and process modeling, advanced alloy development and custom machine design. Significant research breakthroughs include advancements in laser-directed energy deposition (LDED) for developing novel alloys, innovations in micromachining techniques and new strategies for defect mapping and microstructure control in additive manufacturing. These contributions have positioned the Department at the forefront of global manufacturing research, resulting in a series of high-impact publications in premier journals and international conferences over the previous year.

New research labs, equipment and infrastructure installed:

1. Computational lab for complex fluids – Prof. Anjishnu Choudhury
2. Temperature-controlled gradient stage – Prof. Shyamprasad Karagadde
3. Equipment for measuring Dynamics of Flexible Structures procured and installed – Prof. R. Ganesh
4. Fibre Nanosecond Laser – Prof. Deepak Marla
5. Microhardness Tester: Enables precise measurement of surface hardness at micro scales, crucial for studying material strength and wear resistance – Prof. Ramesh Singh
6. Rapid Eye Microscope: a high-speed imaging system designed for detailed microstructural analysis and real-time observation of dynamic processes – Prof. Ramesh Singh
7. Load Cell System: An advanced force measurement setup that provides high-accuracy data for experimental mechanics, particularly useful in stress-strain analysis and fatigue testing – Prof. Ramesh Singh
8. 2D Particle Image Velocimetry – Prof. Rajneesh Bhardwaj

Projects	Sponsored Projects	Consultancy Projects
New Projects	22	23
Ongoing	85	60
Completed	47	15

Outreach Activities:

- International Conference and Workshop on Additive Manufacturing and Characterization, held during 9th-11th January, 2025
- BiOMEx'24 workshop during 3rd-4th May, 2024
- One-day symposium on “Ultrafast Laser Micro-Fabrication” on 22nd November, 2024
- One day workshop on “Polymer processing for microfluidics” on 25th November, 2024, at IIT Bombay
- A five-day workshop on “Structural and Machinery Diagnostics” during 10th-14th February, 2025

- “Paper Surgery” workshop from 26th to 28th February 2025, convened by Prof. Ramesh Singh and was organized by MTL Lab of the Department of Mechanical Engineering at IIT Bombay

Institute of Eminence (IoE)-funded outreach activities:

- **International Outreach:** The Department hosted six foreign faculty to strengthen international collaborations with institutions and regions in Asia, the Middle East, Africa and South America. The visiting professors were hosted by Prof. Amber Srivastava, Prof. Amit Agrawal, Prof. Shrinidhi Pandurangi and Prof. Atul Sharma.
- **Student Ambassador Programme:** This IoE-sponsored programme aimed to leverage the personal and academic networks of current PhD students to extend the Department’s outreach across India. Under this initiative, 16 selected student ambassadors (PhD students) visited 13 institutes, including IITs (Bhilai, Bhubaneswar, BHU), NITs (Rourkela, Durgapur, Nagpur, Jalandhar), PEC Chandigarh and others, during 27th February-7th March, 2025. They engaged with students and faculty through research talks and presentations that showcased the Department’s academic programs and research activities. This initiative was organized by the Department Outreach Committee (DOC), comprising Profs. Soham Mujumdar (convener), Avishek Ranjan, Darshan Shah, Shrinidhi Pandurangi, Alankar Alankar, Ankit Jain and Atul Sharma.
- **Enhancing Research Outreach through Illustrations and Multimedia:** The Department partnered with Gubbi Labs to create research communication materials, including preparing text abstracts for dissemination on the website, social media, magazines and explainer videos, thereby improving the visibility of the Department's research among the scientific community, prospective students and the general public.

Key Highlight:

Hover Handover Ceremony to Indian Army: On 26th March, 2025, three RoVeRs (remotely operated vehicles) of different weight categories—140 kg, 70 kg and 30 kg—were officially handed over to Col. Rakesh Verma, Commanding Officer of the Automotive Wing, School of Technical Training, Armoured Corps Centre and School (ACCS), Ahmednagar. Prof. Shireesh Kedare, Director of IIT Bombay also attended the ceremony.

These RoVeRs were developed by Prof. Anirban Guha, Prof. Abhishek Gupta and Prof. V. Kartik, along with their team of engineers and students, as a part of a project for the National Center of Excellence in Technology for Internal Security (NCETIS) led by Prof. B.G. Fernandes at IIT Bombay.

Key features of the RoVeRs include assisting security personnel in inspecting and disposing-off suspicious objects (e.g. improvised explosive devices (IED)) from a safe distance, providing real-time video feedback from multiple cameras, the ability to navigate off-road terrain and a large robotic arm for handling objects.

Student Achievements:

- Dixit Gohil, along with Prof. Anirban Guha and Prof. Makarand Kulkarni received recognition for their paper titled “*Optimizing*

Nonlinear Constraint Programming using the Walrus Optimization Algorithm and Traditional Techniques” as one of the best presentations at the 12th Asia Conference on Mechanical and Materials Engineering (ACMME 2024) held in Kyoto, Japan during 14th-17th June, 2024

- Akhilesh Goyal was acknowledged for his presentation titled “*Influence of Heat Treatments on Mechanical Properties of LPBF Ti-6Al-4V/Ti-6Al-2Sn-4Zr-2Mo Bimetals*” at the International Conference on Advanced Materials for Sustainable Development (ICAMSD 2025), held at MNIT Jaipur during 28th-29th March, 2025
- Ankit Tamrakar won the Best Oral Presentation award at MEEHCON 24, held at Kozhikode
- Following student-faculty advisor teams received the Best Paper Award at COPEN 13 (13th International Conference on Precision, Meso, Micro and Nano Engineering) held at NIT Calicut, 13th-15th December, 2024:
 - “*A Novel Wire Robotic Arrangement for Additive Manufacturing*” by Yash Gopal Mittal, Gopal Gote, Avinash Kumar Mehta, Yogesh Patil, Pushkar Kamble, Paras Mandal, Dixita A. Yadav and Prof. K. P. Karunakaran
 - “*Multiscale Modelling of Ultrafast Laser Heating of Gold using Two-Temperature Model Coupled with Molecular Dynamics*” by Prem Dheeraj Mortha, Prof. Upendra V. Bhandarkar and Prof. Deepak Marla
 - “*DBD Plasma Jet-Enhanced Chemical Vapor Deposition of TiO₂*” by Shayan Bayki and Prof. Soham Mujumdar

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	43	211

DEPARTMENT OF METALLURGICAL ENGINEERING AND MATERIALS SCIENCE

The Department of Metallurgical Engineering and Materials Science continues to excel in a wide variety of areas, represented in its teaching and research portfolio, including physical, mechanical and process metallurgy, electronic, optical, and magnetic properties of materials (including ferroelectrics, thermoelectric, etc), electrochemistry, batteries, fuel cells (and other energy materials), corrosion (including high-temperature corrosion).

Over the last 4-5 years, the number of PhD student intake has multiplied. The Department's annual output, which includes more than 250 publications in peer-reviewed international journals (including in highly rated journals like Acta Materialia, J. Mater Chem A, Philosophical Magazine etc.), allows it to compete with any other metallurgy-materials department in the world.

The Department of Metallurgical Engineering and Materials Science (MEMS) has been ranked second in the country and 104th in the world as per QS World University Rankings by Subject for 2025.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	48
No. of Post-Doc Fellows	33

Academic Programmes:

The Department offers programmes in BTech, dual degree (BTech+MTech), MTech and a PhD.

New Programme

The Department will offer two new M.Tech programmes in the following specializations from AY 2025-2026:

1. M.Tech in Computational Materials Engineering
2. M.Tech in Semiconductor Materials and Processing

Total no. of students on-roll: 1051		
Programmes Offered	Students Intake	Degrees Awarded
BTech	113	102
DD (BTech+ MTech)	-	20
BS (3-year)	-	04
IDDDP	-	05
MTech	84	49
PhD	35	33
MS by Research (Exit)	-	02
DD (MTech+ PhD)	-	01

R&D Activities:

There has been a notable contribution from some of the focused research programmes such as those under CoEST (Centre for Excellence in Steel Technology, funded by the Ministry of Steel). This initiative is providing a platform for critical research collaborations for the Indian steel industry, several technological products and a wide range of sponsored research projects.

- a. Established the Jindal Stainless Chair Professor position through CoEST amounting Rs. 2 crores.
- b. The total sponsored project worth Rs. 24 crores were initiated in the AY 2024-25 out of which R & D project worth Rs. 7.89 crores were conducted in collaboration with JSW.

After initiating a long-term MoU with JSW Steel, the Institute has commenced construction of the new building that will provide additional space for the department which will also accommodate the Jindal South West (JSW) Technology Hub for Steel Manufacturing. Further, the three major industrial collaborations namely 1) Applied Materials 2) JSW and 3) Hindalco, Aditya Birla Group will be

establishing their R&D units at the Research Park of IIT Bombay. The CoEST and JSW-TH steels are contributing significantly to the decarbonization efforts of steel plants mandated by the Ministry of Steel, Government of India.

Another collaborative Centre funded by the Department of Science and Technology is the Water Innovation Centre: Technology, Research and Education (WICTRE), which focuses on various areas of water purification, considering the present requirements of our country.

Projects	Sponsored Projects	Consultancy Projects
New Projects	20	20
Ongoing	51	23
Completed	25	14

Outreach Activities:

Conferences:

- ‘1st National meeting on Sodium(-ion) Batteries (NMSB-1)’ during 4th-6th October, 2024, led by Prof. Amartya Mukhopadhyay
- ‘Battery Reuse, Repurpose and Recycling’ on 3rd October, 2024, led by Prof. Jayashree Biswas
- International conference on ‘Electronic structure theory of emergent spin orbit driven phenomenon (ESTESODP)’ during 11th-15th November, 2024. Prof. Amrita Bhattacharya, Prof. Avradeep Pal and Prof. Aftab Alam were the organisers from IIT Bombay
- “Women in Optics and Photonics in India-Asia” during 6th-8th December, 2024, convened by Prof. Shobha Shukla

Symposium:

‘Development of sustainable approaches to wastewater treatment and purification with plasma technology’ on 16th January, 2025,

organised by Prof. Shobha Shukla and Prof. Sumit Saxena

Workshops:

- ‘Thermoelectric Materials and Devices’ on 23rd October, 2024, organised by Prof. Titas Das Gupta
- ‘India-Brazil-Australia workshop: Recent Advances in Laser technologies for Sensing Applications’ on 7th November, 2024, organised by Prof. Shobha Shukla and Prof. Sumit Saxena
- ‘Nanobiophotonics’ on 13th November, 2024, organised by Prof. Shobha Shukla and Prof. Sumit Saxena
- ‘2D Materials: Advances in Growth, Characterization and Applications’ on 9th December, 2024, organised by Prof. Tanushree H. Choudhury
- ‘Confined Polymers far from Thermodynamic Equilibrium’ during 13th-14th January, 2025, organised by Prof. Mithun Chowdhury
- ‘Royal Society of Chemistry Interactive Session’ on 3rd February, 2025, organised by Prof. Shobha Shukla and Prof. Sumit Saxena
- ‘Ultrafine-Grained Metallic Materials: Processing, Microstructures and Properties’ on 13th February, 2025, organised by Prof. M.J.N.V. Prasad
- ‘Flexible and Wearable electronic devices for healthcare applications’ between IIT Bombay and RMIT University, Australia on 27th February, 2025, organised by Prof. Dipti Gupta

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	01	21	217

DEPARTMENT OF PHYSICS

The Department of Physics at IIT Bombay was established in 1959 and is one of the oldest departments in the Institute. It offers world-class education for both undergraduate and postgraduate students and engages in research across a wide range of fundamental and applied physics areas, making it one of the most sought-after departments for students at all levels.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	59
No. of Post-Doc Fellows	29

Academic Programmes:

The Department offers programmes in BTech, MSc, Dual degrees and PhD.

Total no. of students on-roll: 614		
Programmes Offered	Students Intake	Degrees Awarded
BTech	56	64
DD (BTech+ MTech)	-	04
BSc (3-years)	-	03
IDDDP	-	03
MSc	60	46
DD (MSc+ PhD)	-	01
PhD	33	22

R&D Activities:

The Department's research spans condensed matter physics, photonics, nuclear and elementary particle physics, string theory and cosmology. The establishment of state-of-the-art experimental and computational facilities has enabled exploration into emergent interdisciplinary areas like nanotechnology, quantum information processing, nonlinear dynamics and biophysics.

The faculty members of the Department belong to at least one of the following research interest areas that overlap significantly:

- Astronomy, Cosmology and Gravity
- Condensed Matter Experiments
- Condensed Matter Theory
- High-energy Theory
- High-energy Experiments

- Light-Matter Interactions
- Physics of Quantum Technology
- Soft and Living Matter

Major equipment purchased:

- Electro Physiology System
- Fixed recirculating chiller
- Standalone control unit

Projects	Sponsored Projects	Consultancy Projects
New Projects	12	02
Ongoing	29	06
Completed	23	03

Outreach Activities:

Conference/ Symposium:

- IoE-SCPP symposium on 'Frontiers in Biomolecular Interactions: From Polymers' to Membranes organized on 5th Aug 2024, led by Prof. Sunita Srivastava
- International Conference on 'Photophysics and Photochemistry' organized during 14th-16th October, 2024, led by Prof. Aftab Alam
- Symphy 2025, the 12th annual symposium of the Department held during 8th-9th March, 2025. Prof. Soumya Bera, Prof. Uditendu M. and Prof. Manibrata Sen were the conveners

Workshops:

- 'Student Talks on Trending Topics in Theory (ST4)' to membranes during 1st-12th July, 2024, led by Prof. P. Ramadevi
- 'Neutrino Physics' during 6th-8th November, 2024, led by Prof. S. Umasankar
- 'Quantum Condensed Matter Perspectives' during 11th-12th December, 2024, led by Prof. Hridis Kumar Pal

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	01	25	189

DESAI SETHI SCHOOL OF ENTREPRENEURSHIP

The Desai Sethi School of Entrepreneurship (DSSE) was set up as a Centre in 2014 with a generous donation from alumnus Mr. Bharat Desai. It became a School in 2019. DSSE trains aspiring entrepreneurs through education and pre-incubation programmes.

Over the past 11 years, more than 4300 students have benefited from entrepreneurship courses; over 950 students have embarked on their entrepreneurial journeys; 350+ venture teams have been mentored in the IDEAS pre-incubation programme and DSSE students have successfully led over 100 startups in multiple domains.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	13
No. of Post-Doc Fellows	01

Academic Programmes:

DSSE has launched its maiden degree—the PhD Program in Innovation and Entrepreneurship—in the academic year 2024-25. The areas of research include entrepreneurship ecosystem, innovation and product development, lab to market translation, entrepreneurial mindset and behaviour, inclusive innovation and social entrepreneurship, entrepreneurship education and university entrepreneurship. A diverse cohort of 6 students joined the PhD Program at DSSE with backgrounds in environmental science, innovation, sociology, business management, accounting and finance etc.

DSSE offers several theory and lab courses (relevant to innovation and entrepreneurship) as electives from the second year onwards to undergraduate and postgraduate (Master's and PhD) students. Students can also pursue a BTech (Minor) in entrepreneurship as an additional degree, provided they complete a minimum of 30 credits.

In 2024-25, DSSE had a total of 1,650 students enrolled in entrepreneurship courses, an increase from around 500 three years ago. The number of courses offered, including doctoral-level courses,

expanded to 20 compared to 10 in the 2023-24 academic year.

Some of the elective courses offered by DSSE include:

- Introduction to Entrepreneurship
- Proof of Concept (Lab)
- Marketing and Finance for Entrepreneurs
- Innovation and Intellectual Property for Entrepreneurs
- Technology Venture Creation
- Field Immersion for Entrepreneurs and Researchers
- Social Enterprise and Inclusive Business
- Strategy and Leadership for Entrepreneurs

New doctoral courses launched in this year include:

- Core Topics in Innovation and Entrepreneurship
- Readings on Innovation, Entrepreneurship and Development

Total no. of students on-roll: 06		
Programmes Offered	Students Intake	Degrees Awarded
PhD	06	-

R&D Activities:

- In February 2025, DSSE hosted a research symposium, titled “*Symposium on Contemporary Entrepreneurship Research in India*”, featuring about 15 scholars who presented their work and insights on Entrepreneurship research.
- Prof Anu Narasimhan is a key member of Project Titanium, which aims to translate ideas into impact by collaborating with academics and researchers

Prof. Lina Sonne Vyas published two research articles as follows:

- “*Digital revolution and the gender divide: factors affecting mobile phone use in India*” in Information, Communication & Society in February 2024

- “The resilience of systems-thinking approaches when faced with an evolving crisis:

The case of Mumbai” in Development Policy Review in May 2024

Research Seed Grants Approved:

- Prof. Sankalp Pratap for the project “Investigations and Interventions in the University / School Entrepreneurship Ecosystem”
- Prof. Lina Sonne Vyas for the project “Digitisation, Entrepreneurship and Gender: Women Micro-Entrepreneurs”

Projects	Sponsored Projects	Consultancy Projects
Completed	01	-

Outreach Activities:

Key highlight:

• **Entrepreneurship Day Symposium**

DSSE celebrated its 11th anniversary with an Entrepreneurship Day Symposium titled "Catalyzing University Entrepreneurship" on January 31, 2025. The event was attended by over 350 participants. Keynote speeches were delivered by Prof. Rishikesh Krishnan, Director of the Indian Institute of Management Bangalore, and Dr. Abhay Jere, Vice-Chairman of the All India Council for Technical Education (AICTE) and Chief Innovation Officer at the Ministry of Education, Government of India. The symposium featured panel discussions on topics such as “Entrepreneurship Education”, “Entrepreneurship Research and Translational Research” and “Commercialization”. Additionally, student entrepreneurs performed a skit titled “Startup vs. Sanity”. During the event, three student

teams were honoured for their victories at the national-level Smart India Hackathon 2024.

Other activities:

- Executive Education Programme - 2nd Orbit Programme for IT Entrepreneurs and Small and Medium Enterprises (SMEs) conducted in workshop mode for 25 NASSCOM entrepreneurs to help them scale to the next orbit through mindset changes and imparting skills held in October 2024 and March 2025. Prof. Lina Sonne Vyas conducted the *Gen AI for Business Operations & Strategy: A Practical workshop* as an IIT Bombay Certificate Course in January 2025. Towards the end of 2024-25, Prof. Anu Narasimhan hosted a cohort of 70 Spanish students from UCJC (Camelio Jose Cela University), for a three-day international immersion workshop on Innovation and Entrepreneurship.

Highlights:

The **Anand D Kusre Awards** for Entrepreneurship were set up by Dr Jagdish Sheth of Emory University and were announced during the Entrepreneurship Day Symposium on 31st January 2025. The awards for 2024 are as follows:

- **Entrepreneurship Student of the Year:** Aryan Gupta (5th year, Department of Chemistry)
- **Startup Idea of the Year:** IDEAS team “Gruh” - Yash Samnerkar and Gaurav Pingale

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	-	02



IDC SCHOOL OF DESIGN

The IDC School of Design (IDCSoD) at IIT Bombay offers an excellent environment for academics, research and applications in the field of design. The School actively engages with industries and institutions through seminars, short-term courses and workshops promoting the importance of design. In addition, IDCSoD offers professional design consultancy and advisory services to industries and other organizations. The potential for innovation at IDCSoD lies fundamentally in solving real-world problems.

IDC School of Design envisions a holistic design education that shapes students into responsible contributors to society. It enables them to identify significant contemporary problems, inculcate critical thinking, critique conventional solutions and challenge the status quo to arrive at creative solutions through collaborative team efforts at different levels of society, influencing policymaking that leads to innovations innovation.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	72
No. of Post-Doc Fellows	01

Academic Programmes:

The IDC School of Design has a well-established Master of Design degree (MDes) programme in Industrial Design, Communication Design, Animation Design, Inter-action Design, Mobility and Vehicle Design and minor courses, as well as a PhD programme in Design. From 2015 onwards, IDCSoD has started a four-year Bachelor of Design (BDes) programme and a five-year (BDes+MDes) dual degree programme, available only at the end of the third year. These programmes are credit-based and thus offer the flexibility to progress at one's own pace.

New programmes offered:

- MDes by Research
- ePGD in Interaction Design

Total no. of students on-roll: 380

Programmes Offered	Students Intake	Degrees Awarded
BDes	37	20
MDes	67	69
MDes By Research	06	-
DD (BDes+MDes)	-	09
PhD	06	02

R&D Activities:

IDCSoD undertakes several projects, including product-oriented, experimental research, open-ended exploratory research, theoretical research, and documentation and pedagogic research. Some of these projects are sponsored by the industry, the ministry and other organizations. The students conduct many projects of varying duration and complexity as part of their academic programme.

Projects	Sponsored Projects	Consultancy Projects
New Projects	03	03
Ongoing	06	06
Completed	06	05

Outreach Activities:

- **Design Degree Show (DDS) 2024:** The School organised the Design and Degree Show (DDS) themed "Impressions" on 25th August, 2024. The event showcased over 200 final projects and innovative ideas from more than 100 graduating students.
- **Participatory Design Conference (PDC) Place India 2024:** IIT Bombay hosted PDC Place India 2024, a two-day conference, during 9th-10th August, 2024, at the IDC School of

Design. It focused on participatory design methodologies and values, particularly within the Indian context. The event included talks, activities, workshops, a poster display and a panel discussion.

- **Visual Discourse Conference 2024:** IDCSoD, IIT Bombay, organized and hosted the Visual Discourse 2024 (international) Conference during 6th-8th November, 2024, at its campus. The event provided a platform for researchers to present and discuss cutting-edge research in visual narratives across various forms and contexts, including their creation, analysis and application in the design space.
- **India HCI 2024 / IDID 2024:** IDCSoD hosted two jointly organised conferences during 7th-9th November, 2024, related to human-computer interaction (HCI), namely IndiaHCI 2024 (the 15th Indian National Conference on HCI) and Interaction Design for International Development 2024, focusing on interaction design in developing countries. IndiaHCI 2024 also featured the “*Off the Canvas*” series, a collaboration between HCIPAI, ACM SIGCHI Chapters and IndiaHCI, highlighting human creativity and collaboration in innovation. These events were sponsored by the HCI Professionals Association of India in cooperation with ACM SIGCHI and IFIP TC13.
- **Bharat Mobility Expo 2025:** A group of 10 IDCSoD students participated in the Bharat Mobility Expo in New Delhi during 17th-22nd January, 2025. They presented 16 student vehicle design projects, ranging from conceptual vehicle developments to public transportation services like the Kochi Water ferry and the Indian Railway. The Expo provided an opportunity for public exposure to the practices and courses at IDC School of Design, connecting them to major industry players such as Mahindra, Skoda and Maruti Suzuki as well as fostering relations with other design schools, start-ups, OEMs and ancillaries across the country.

- **Design Doctoral Consortium 2025:** The Design Doctoral Consortium, organized by Prof. Anisha Malhotra, featured PhD students sharing discussions about their early-stage research with fellow scholars and veteran professors in the design field across the globe. This collaboration provided valuable critical feedback, enabling students to enhance their work through insights into their PhD topics, methods, relevant literature, academic writing, and diverse perspectives from the reviewers. The Expert Panel Members for DDC 2025 included Prof. Helen Petrie, University of York; Prof. Koumudi Patil, IIT Kanpur; Prof. Abhishek Shrivastava, IIT Guwahati; Prof. Shakuntala Acharya, IIT Guwahati; Prof. Saurabh Tewari, IIT Delhi; Dr. Geetanjali Date, Centre Head at MSFDA, Pune; Dr. Arpita Desai, AURO University, Surat and Prof. Anirudhha Joshi, Prof. Venkatesh R., Prof. Nishant Sharma, Prof. Girish Dalvi and Prof. Anisha Malhotra from IDC School of Design, IIT Bombay.
- **Typo Day 2025:** The 17th edition of Typography Day was held during 6th-8th March, 2025, at IDC School of Design (IDCSoD) with support from India Design Association (InDeAs), Design in India and Aksharaya. The event featured workshops on typography and calligraphy, followed by an international conference themed “*Typography and Storytelling*”, which addressed issues faced by type designers, type users and type educators.
- **AniMela 2025 and MIFA workshop:** The IDCSoD conducted AniMela 2025, the Animation Festival, in partnership with AVAF during 7th-9th March, 2025. Coinciding with this, the ANNECY festival—one of the most prestigious international animation festivals in France—conducted the International MIFA campus at IDCSoD. **Publications:**

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	03	07	20	17

SHAILESH J. MEHTA SCHOOL OF MANAGEMENT

IIT Bombay established its Management School in 1995 with a vision to transform professionals into “Renaissance Leaders”. In 2000, it was officially named the Shailesh J. Mehta School of Management (SJMSOM) in honour of the generous contribution of distinguished alumnus Dr. Shailesh J. Mehta. Leveraging the diverse intellectual resources of IIT Bombay, the School offers innovative management programmes designed to equip graduates with the all-round managerial skills needed to tackle unique business challenges. The associate faculty from various departments within IIT Bombay along with visiting faculty from the industry offer academic teachings to bring the practitioner’s perspective.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	29
No. of Post-Doc Fellows	01

Academic Programmes:

- i. PhD
- ii. 2-year full-time MBA
- iii. BTech (Minor) in Management
- iv. Joint Executive MBA (E-MBA) with Olin Business School at Washington University in St. Louis, USA
- v. Interdisciplinary Dual Degree Programme (IDDDP)

New courses introduced during 2024-25:

- Data Science for Management
- Healthcare Supply Chain Management
- Sustainability: Theory to Action

Total no. of students on-roll: 464		
Programmes Offered	Students Intake	Degrees Awarded
MBA	129	110
EMBA	43	44
PhD	21	07

R&D Activities:

Faculty members of the School are engaged in many research and consulting projects in all areas of management, including applied research in rural

development, climate change, geospatial informatics and other interdisciplinary areas.

Projects	Sponsored Projects	Consultancy Projects
New Projects	05	03
Ongoing	04	05
Completed	01	03

Outreach Activities:

During the year 2024-25, the School held various national and international workshops, including:

- “Information and Trading in Bond Markets”, a joint workshop by IIT Bombay and the University of Oklahoma, USA, on 29th July, 2024. Prof. Piyush Pandey was the organizer
- “Extreme Value Theory and its Applications” at IIT Bombay during 2nd-3rd August, 2024. Prof. Sudeep R. Bapat was the convener
- “CSR, ESG and Sustainability” in association with Research Hub for Green Energy & Sustainability (GESH), IIT Bombay, supported by the Institute of Eminence during 3rd-4th January, 2025. Prof. Trupti Mishra and Prof Soumya G. Rajan were the organizers



Participants during the workshop on CSR, ESG and Sustainability

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	24	15

ASHANK DESAI CENTRE FOR POLICY STUDIES

The Centre, established in 2016, was renamed as Ashank Desai Centre for Policy Studies (ADCPS) in 2021. The ADCPS aims to promote evidence-informed and inclusive public policy analysis, bridging the gap between academia, policymakers and society at large. With a vision to become a Centre of Excellence in facilitating policy studies, ADCPS aims to address pressing societal challenges through rigorous research, innovative thinking and collaborations to generate insights and recommendations that can inform effective policy-making.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	15
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Academic Programmes:

ADCPS offers a Doctoral programme and Master's programme in Public Policy.

Total no. of students on-roll: 118		
Programmes Offered	Students Intake	Degrees Awarded
MPP	13	12
PhD	08	04
M.S. By Research (Exit)	-	01

R&D Activities:

Policy studies is a relatively nascent discipline in India. Currently, the Centre is involved in various key policy research areas, including digital society and governance, social policy (education, ageing, identity), technology and policy, urban policy, water, sanitation, energy and climate change, energy transitions, energy modelling, electric vehicles, green jobs, energy access etc.

Projects	Sponsored Projects	Consultancy Projects
New Projects	02	01
Ongoing	05	01
Completed	03	-

Outreach Activities:

- ADCPS hosted a "Summer School" in Germany and a "Winter School" at IIT Bombay and Kerala in July and December 2024, respectively

- The ADCPS is playing a key role in the audit initiated by the Dean of Infrastructure Planning and Support to assess the ease of access on the Institute campus. This initiative is to ensure equitable access for differently-abled faculty, students, alumni, retired faculty, visitors and family members on campus. Prof. Prabhir Vishnu Poruthiyil, Prof. Naveen Bharati and Prof. Himanshu Burte are coordinating this initiative.
- During the year 2024-25, about 15 policy-relevant talks were conducted on various topics

Conferences/ Symposiums on:

- (International Conference) 5th India Public Policy Network (IPPN) during 6th-8th December, 2024. Prof. N.C. Narayanan was the Conference Chair
- (Symposium) Global Citizenship Education and Internationalisation of Higher Education on 29th January, 2025, led by Prof. Malish C.M.

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	-	02	05



A panel discussion on 'Policy Processes in the Global South' at the 5th India Public Policy Network (IPPN) International Conference held during 6th-8th December, 2024 at IIT Bombay

CENTRE FOR MACHINE INTELLIGENCE AND DATA SCIENCE

The Centre for Machine Intelligence and Data Science (CMInDS) at IIT Bombay was set up in February 2020 with an aim to expand the frontiers of AI and ML and their applications through cutting-edge research and advanced academic programmes as well as strong industry collaborations. The activities of the Centre leverage the existence of a strong interdisciplinary academic community and the important research endeavours carried out by various researchers and faculty members. The Centre aims to nurture the future talent pool in AI and DS primarily through research, teaching and collaboration with industry and the government.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	07
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Academic Programmes:

The Centre offers four academic programmes as follows:

- Master of Science (MS) by Research in Artificial Intelligence and Data Science
- Doctor of Philosophy in Machine Learning (ML) and Artificial Intelligence
- Interdisciplinary Dual Degree Programme
- Minor Programme in Artificial Intelligence and Data Science

In September 2024, CMInDS launched an 18-month online Executive Postgraduate Diploma in Artificial Intelligence and Data Science programme. This programme offers a robust curriculum featuring foundational and advanced courses such as Machine Learning, Deep Learning and AI-ML in Practice.

Total no. of students on-roll: 64		
Programmes Offered	Students Intake	Degrees Awarded
MS by Research	15	-
PhD	07	-

R&D Activities:

CMInDS offers a pre-doctoral programme with full-time research positions to recent STEM graduates

with a strong interest in AI/ ML research. The programme has on-going research projects in the areas of Kernel machines and optimization problems in ML. C-MInDS has also actively engaged with industry partners through a range of research collaborations aimed at solving real-world problems using AI and data science. These include collaboration with the SBI Foundation on various topics related to AI in the banking and financial services sector and more recently with Honda Cars India on advancing machine intelligence in the Indian mobility sector for addressing challenges in road safety and autonomous driving. These collaborations have the potential for a global impact, with solutions developed for India which are also applicable in other parts of the world.

The Centre installed a new computer server comprising eight L40S GPUs of 48GB VRAM each. Additionally, it has developed a new lab facility with a seating capacity of upto 70 researchers and students.

Projects	Sponsored Projects	Consultancy Projects
New Projects	02	-

Outreach Activities:

- A one-day workshop on “Anomalous Activity in Digital Financial Systems Tackles Growing Fraud Concerns”, co-hosted with IIT Bombay Trust Lab and State Bank of India (SBI) Foundation Hub on 25th May, 2024
- International Conference on Emerging Trends in Business Analytics and Management Sciences (BAMS) and the 57th ORSI Annual Convention – Supported by SBI Foundation Hub, held during 12th–14th December, 2024
- TechConnect Symposium on December 17, 2024

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	03	-

CENTRE FOR RESEARCH IN NANOTECHNOLOGY AND SOPHISTICATED ANALYTICAL INSTRUMENT FACILITY

IIT Bombay is one of the premier research institutes in the country for nanoscience and nanotechnology. The Centre for Research in Nanotechnology and Science (CRNTS) at IIT Bombay was established in 2005 through a generous grant from the Department of Science and Technology (DST), Government of India. The research at the Centre is interdisciplinary in nature and 130 associate faculty are engaged in guiding students from various departments.

The Centre also hosts the Sophisticated Analytical Instrument Facility (SAIF), which houses a range of well-maintained major analytical instruments in operation. SAIF IIT Bombay, established in 1976 and funded by the DST, provides academic, research and scientific services to users from various educational institutions and laboratories across India. Advanced instrumentation facilities have been set up in CRNTS to meet the advanced instrumentation needs of IIT Bombay researchers across various academic units and operated by trained PhD research scholars at IIT Bombay. SAIF/CRNTS supports other activities and research by conducting workshops, webinars and training programmes.

Academic Programmes:

The Centre offers an interdisciplinary PhD programme in nanoscience and technology. The associated faculty members at IIT Bombay guide the enrolled PhD students on both fundamental and applied aspects of nanoscience and nanotechnology research

Total no. of students on-roll: 79

Programmes Offered	Students Intake	Degrees Awarded
MS by Research (Exit)	-	01
PhD	11	12

R&D Activities:

The broad research areas at CRNTS include nanomaterials, nanosensors, nanoelectronics, nanobiotechnology and nanomanufacturing. Some current research topics include micromechanical theory for explaining the colloidal aggregation phenomenon; nanoparticles and nanocomposites for removal of organic pollutants and heavy metals from water; nanostructures for environmental biosensors; ecotoxicological studies on nanomaterials; 3D printing for the development of flexible electronic devices and sensors; polymer composite membranes for water-oil separation; investigation of damage mechanisms in nanocomposites using experiments and multi scale modeling and structure-property correlations of additively manufactured nano-concrete.

Instrumental methods of analysis form an indispensable aspect of any R&D programme. A wide range of analytical techniques are available at SAIF and CRNTS for chemical analysis, material testing and characterization, including qualitative and quantitative elemental analysis, molecular analysis, structure determination, surface topographic studies and physical, optical and electrical characterization of materials. In 2024-25, approximately 2,486 users utilized the SAIF/CRNTS facilities at IIT Bombay to analyze 20,633 samples from academic institutions, national laboratories and industry.

New facilities recently installed in SAIF/CRNTS:

1. Total Organic Carbon (TOC): Supported through funding by the DST, TOC measures the concentration of organic carbon in water, soil, or other samples. The TOC content is a key parameter in environmental analysis, as it gives insight into the organic matter content of a sample. Organic

carbon in a sample can include compounds such as sugars, proteins and other natural substances.

2. Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) Facility: Installed through funding provided by the Institute of Eminence (IoE), ICP-OES is an analytical technique used to determine trace elements. Elemental analysis plays an important role in many aspects of life today, including ensuring reliable quality control of base raw materials and finished products, as well as the use of spectral analysis instruments to monitor industrial processes, providing flexible analytical techniques to meet the constantly changing requirements of research and development departments and checking waste and wastewater for compliance with national regulations before disposal or release into the environment.

3. Gas Chromatography High-Resolution Mass Spectrometer (Orbitrap GC-HRMS): Funded by the DST and Institute of Eminence (IoE), GC-HRMS Orbitrap mass spectrometry allows for high-precision chemical analysis, especially of complex mixtures of organic compounds. This setup provides superior resolution and sensitivity, making it ideal for applications that require detailed molecular identification and quantification.

Projects	Sponsored Projects	Consultancy Projects
Ongoing	02	02

Outreach Activities:

Workshops on:

- *Particle Size and Zeta Potential* held on 4th May, 2024
- “*Applications of Advanced Analytical Techniques in Research and Industry*” jointly organized by SAIF/ CRNTS, IIT Bombay; Centre for

Sophisticated Instruments and Facilities (CSIF), IIT Bombay and Indian National Academy of Engineering (INAE) Mumbai Chapter, during 18th-19th February, 2025. Prof. Suparna Mukherji (Head, SAIF/ CRNTS), Prof. Anindya Datta (Head, CSIF) and Prof. S.V. Kulkarni (Co-Chair, INAE Mumbai Chapter) were the conveners

Student Achievements:

- Tejas Yuvaraj Suryawanshi:
 - won the Best Poster Presentation Award at the International Conference on Clinical Translation of Biomaterial-based Therapeutics and Devices (ICBTD), conducted by Somaiya Vidyavihar University, Mumbai, during 6th-7th February, 2025
 - won the Best Three-Minute Thesis Presentation Award at Women in Optics and Photonics- India (WOPI), conducted by IIT Bombay, Mumbai, during 6th-8th December, 2024
- Vikram Wanjari won the Best Paper Award for his paper titled ‘*Electrochemical Sensing of Emerging Contaminants using Laser-induced Graphene (LIG)*’ at the IX International Conference on Sustainable Energy and Environmental Challenges (IX SEEC), held at IIT Mandi during 13th-15th December, 2024
- Utkarsh Misra was selected as the winner of the 2024 *Elias Klein Founders’ Travel Supplement Award* by the North American Membrane Society (NAMS)
- Suman Bhattacharjee received the Frontier Centre Award for Visiting Research Scholarship at The Ohio State University as a part of the IIT Bombay - Ohio State Frontier Scholars Program held during March-May 2024

CENTRE FOR TECHNOLOGY ALTERNATIVES FOR RURAL AREAS

The Centre for Technology Alternatives for Rural Areas (CTARA) was established at IIT Bombay in 1985 with a vision to attend and learn from the problems of rural India and develop appropriate technology solutions through fieldwork.

In the last two decades, our country has witnessed significant changes in several spheres at an increasingly rapid speed. The development agenda is now the key to the progress of India and its people. The research and academic programmes of CTARA are geared towards need assessment and alternative solutions, informed policy and implementation, design and analysis of key programmes, tracking performance and an inter-disciplinary study of a wider set of problems to reduce them to a set of disciplinary/ inter-disciplinary/ trans-disciplinary research.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	12
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Academic Programmes:

The Centre offers an MTech and PhD programmes in “Technology and Development” to train science and engineering graduates in the technology and development domain. It also offers Technology and Development Supervised Learning (TDSL), a socially relevant project course for undergraduate students at IIT Bombay. A new one-year ‘*Master in Development Practice (MDP)*’ programme commenced in 2023 for young development practitioners to enhance their academic and analytical abilities to contribute effectively to the development sector.

Total no. of students on-roll: 131		
Programmes Offered	Students Intake	Degrees Awarded
MTech	29	27
MS by Research (Exit)	04	01
PGDIIT (Exit)	-	01
PhD	10	10

R&D Activities:

The Centre is actively involved in basic and applied research covering various sectors and themes such as rural energy, water and sanitation, health and nutrition, soil and natural resources, agriculture and agro-processing, food and nutrition, technology and society, among many more. The Centre also provides high-quality knowledge and technical advisory support through various R&D projects and consultancy to various organizations, as follows:

- The Rural Technology Action Group (RuTAG) is an initiative of the Office of the Principal Scientific Advisor, Government of India and IIT Bombay C-TARA. The enhanced mandate of RuTAG 2.0, launched in October 2023, has supported the development and dissemination of five new rural technologies. Dissemination efforts have further strengthened through the support of Coal India Limited’s Corporate Social Responsibility (CIL-CSR) programme
- Over the past year, approximately 150 functional units of 17 rural technologies—comprising five newly developed and 12 previously established solutions—have been deployed across diverse sectors, including agriculture, health, renewable energy, animal care, water management and rural livelihoods. These interventions have positively impacted over 10,000 individuals, contributing to measurable improvements in productivity and income generation

Projects	Sponsored Projects	Consultancy Projects
New Projects	09	17
Ongoing	21	05
Completed	20	03

Outreach Activities:**• Workshops:**

1. Workshops led by Prof. Rupal Dalal:
 - (i) Maternal, Infant and Young Child Nutrition Workshop for 50 government healthcare workers during 1st-2nd July, 2024, in Shillong, Meghalaya
 - (ii) In 2024, 1000 healthcare workers from the Department of Health and Integrated Child Development Services Scheme (ICDS) were trained in Maternal, Infant and Young Child Nutrition in 4 districts of Madhya Pradesh
2. Training-cum-workshop on Rashtriya Baans Diwas during 21st-27th February, 2025, led by Prof. Chaaruchandra A. Korde in collaboration with Katalyser Foundation Nagpur and Mumbai University. This was funded by the National Bamboo Mission and the Maharashtra Bamboo Promotion Foundation.
3. Seed funding for Collaboration and Partnership Projects (SCPP) initiative and IOE-funded workshops on:
 - (i) two-day stakeholder workshop on “Sustainable Rural Development: Empowering Communities for Progress” during 4th-5th October, 2024. Prof. Pennan Chinnasamy and Prof. Chaaruchandra A. Korde were the organizers.
 - (ii) two-day workshop on “Sustainability of Rural Solar Mini-grids in India and Namibia: Challenges and Opportunities”, during 26th-27th November, 2024. This workshop was part of a collaborative research project with a team from Namibia University of Science and Technology (NUST), Windhoek, Namibia and was co-funded through the SEED Centre at TUM, Germany. Prof. Anand B. Rao and

Mr. Omkar Buwa (PhD student) were the organizers.

- (iii) one-day workshop on “Advancing Bioprocessing Frontiers: Innovations in Food, Fuels and Nutrition” led by Prof. Amit Arora in collaboration with the University of Padua, Italy on 18th December, 2024. This workshop was attended by students from various institutions in Mumbai, as well as industry professionals and academicians.
- (iv) “Universiti Teknologi Malaysia (UTM)-IIT Bombay Joint Workshop on Hydrology and Water Resources” (hybrid mode) on 7th January, 2025 convened by Prof. Pennan Chinnasamy.
- (v) “Experiential Learning in Engineering Through Community Engagement: Agricultural Distribution Systems”, held during 27th-28th March, 2025, led by Prof. Priya Jadhav.

• Roundtable Discussion led by Prof. Satish B. Agnihotri and Prof. Amit Arora in collaboration with the World Food Programme:

1. Prevention and Reduction of Food Losses and Waste along the Agri-Horti Supply Chains in India on 17th April, 2024
2. Malnutrition in India: Prevention and Reduction Strategies on 4th September, 2024
3. National Food Security Act (NFSA): A Decade On, A Decade Ahead on 31st January, 2025

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	03	-	10	16

CENTRE OF STUDIES IN RESOURCES ENGINEERING

Established in 1976, the Centre of Studies in Resources Engineering (CSRE) is noted for its research in the areas of machine learning, synthetic aperture radar and hyperspectral image analysis, GPS applications, high-performance computing, geospatial IoT, mineral exploration, agro-informatics, cryosphere, water resources, hydrology. The Centre's work has been published in some of the best-known journals.

The Centre continues its international collaborations in areas such as microwave remote sensing, geology and mineral resources and data sciences in agriculture. The Centre has developed excellent infrastructure in terms of state-of-the-art software, hardware, laboratories and air-borne hyperspectral imaging.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty)	13
No. of Post-Doc Fellows	01

Academic Programmes:

The Centre offers MTech, PhD and undergraduate minor programme in Geoinformatics and Natural Resources. A total of 35 electives and core courses are offered by the Centre.

Total no. of students on-roll: 118		
Programmes Offered	Students Intake	Degrees Awarded
MTech	32	28
PhD	06	07

R&D Activities:



Participants and invited experts during the GIS Day celebration organized at IIT Bombay

The Centre has been actively involved in several research and development activities through projects spanning across interdisciplinary domain expertise of faculty members and applications in geoinformatics, remote sensing, GPS and its applications.

New facility purchased:

ArcGIS/ ArcPRO software with 50-user license

Projects	Sponsored Projects	Consultancy Projects
New Projects	03	04
Ongoing	12	09
Completed	06	03

Outreach Activities:

During the year 2024-25, the Centre participated in various in-house events including:

- 'Visual Discourse' at IIT Bombay during 6th-8th November, 2024, organised by the IDC School of Design, IIT Bombay
- International Conference on 'Electronic structure theory of emergent spin orbit driven phenomenon (ESTESODP)' during 11th-15th November, 2024, organised by the Department of Metallurgical Engineering and Materials Science, IIT Bombay
- Symposium and workshop titled 'Pioneering the Future of Healthcare and Diagnostics Using 4D Omics' on 12th November, 2024, organised by the Department of Biosciences and Bioengineering, IIT Bombay

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	01	01	64	42

CENTRE FOR CLIMATE STUDIES

The Centre for Climate Studies (CCS) at IIT Bombay was established in January 2012 as one of the first Interdisciplinary Doctoral Programme (IDP) on climate change in India. It became a Centre in 2024. The IDP programme was partially funded by the Department of Science and Technology (DST) through its Climate Change Programme (CCP) Division. It was India's first DST Centre of Excellence in Climate Change, under the National Mission on Strategic Knowledge for Climate Change (NMSKCC).

Faculty from various departments across IIT Bombay are associated with the Centre, combining their deep domain expertise to tackle the complex challenges of climate change. Their collaborative efforts make a meaningful impact, both nationally and globally.

The objectives are to build long-term scientific capacity for studying regional climate change and climate futures, enabling the creation of a pool of multidisciplinary researchers to serve the growing needs for climate change scientists and professionals to serve the R&D and policy needs in private, public and governmental institutions and to inform policy and governmental decision making in air and water resources, climate mitigation and adaptation measures.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	07
No. of Post-Doc Fellows	03

Academic Programmes:

The Centre offers a PhD in climate studies.

New Courses introduced:

- CM 507: *Numerical Methods for Climate Science*
- CM 509: *General Circulation of the Atmosphere and Oceans*

New programmes offered:

MTech in Climate and Sustainability (from July 2025)

Total no. of students on-roll: 72		
Programmes Offered	Students Intake	Degrees Awarded
MS By Research (Exit)	-	01
PhD	13	05

R&D Activities:

The CCS conducts interdisciplinary research grounded in advanced climate science, data analytics and systems modeling to investigate the causes and impacts, along with adaptation and mitigation pathways of climate change. Its R&D portfolio spans, but is not limited to, high-resolution regional climate modeling, subseasonal-to-seasonal forecasting, AI/ ML-based early disaster warning systems, hydrometeorological hazard and risk modeling, low-carbon energy transitions, food-energy-water nexus, infrastructural resilience, aerosols and air pollution and climate policy analysis. CCS aims to develop robust, scalable solutions for climate resilience and sustainable development, with a strong emphasis on translational research and societal applications by integrating expertise from atmospheric and oceanic science, engineering, environmental studies and data science, among other domains.

The major research domains at CCS:

- 1. Climate Dynamics and Modeling:** Clouds and Monsoon Dynamics; Climate Change Land-Atmosphere interactions; Ocean dynamics and Mixing; Weather and Climate Modeling
- 2. Climate Impacts and Adaptation:** Disaster risk management; Coastal risk maps; Drought risk quantification; Climate-resilient urban infrastructure; Climate-smart irrigation water management; Early warning flood forecast systems; Human-natural systems.
- 3. Climate Mitigation and Policies:** Energy transition; Green Hydrogen; Life cycle assessments; Agriculture and infrastructure requirements; Emission inventory; Mitigation policy support; Climate Equity
- 4. Aerosols and Air Quality**
 - Under HDFC-ERGO funding, a team of professors, students and project research staff has developed an experimental rainfall forecasting and flood monitoring system called the Mumbai Flood App (Web-portal: <https://www.mumbaiiflood.in/> and App: **MUMBAI FLOOD APP**) to address the challenges of urban flooding in Mumbai and develop early disaster warning

systems for citizens.

• **Key features include:**

- Monitoring live water levels at six flood hotspots in the city
- Checking the levels at three key water bodies responsible for Mumbai’s drainage
- Receive alerts for stations of local railway, based on current rainfall amounts
- Integration of citizen science, allowing users to report flooding incidents and share on-the-ground conditions by filling out a form, with the hotspot information then displayed live to the people of Mumbai
- Leveraging crowdsourcing by analysing the tweets to gauge public sentiment during these events, providing valuable real-time insights

Research Facilities Set up in 2024:

- HPC Storage Server
- Three compute nodes for existing HPC cluster
- Nine water-level sensors installed using HDFC-ERGO funding to help create a flood forecasting system for Mumbai citizens, as part of the Mumbai Flood App project

Projects	Sponsored Projects	Consultancy Projects
New Projects	07	-
Ongoing	11	01
Completed	05	-

Outreach Activities:

Recognizing the critical importance of climate action, IIT Bombay’s Distinguished alumni Dr. Vinaya Kapoor (BTech, Chemical Engineering, 1992) and Dr. Samir Kapoor (BTech, Electrical Engineering, 1992) have initiated two key collaborations with CCS — the ACCESS Awards and SPURS.

- **Climate Entrepreneurship Award (ACCESS Award):** IIT Bombay established the ACCESS (ACcelerating Climate, Energy & Sustainability Solutions) Award for students working in the climate and sustainability space in 2023. The award has been established with the vision to empower students pursuing research in the areas of Climate, Energy and Sustainability solutions. The larger mission of this award is to contribute to IIT Bombay’s endeavour to mitigate the climate crisis through disruptive research,

climate-focused education and sustainability initiatives. The ACCESS award facilitates the progress of students’ fundamental as well as implementation research proposals through cash prizes, provides mentorship to the winning teams, enables the incubation of ideas and launches the entrepreneurial journeys of the Institute’s bright and purposeful minds. <https://www.climate.iitb.ac.in/access-award/>.

- **Summer Program for Undergraduate Research in Sustainability (SPURS):** The SPURS is an IIT Bombay on-campus summer project program in the field of Climate, Energy and Sustainability for its undergraduate students (2nd and 3rd year students). A maximum of ten projects per year are funded under SPURS by the donors. Projects can involve any combination of theoretical, experimental, programming, modelling, simulation, AI/ ML, or fieldwork in the context of the core theme of Climate, Energy and Sustainability. The best student every year as decided by the SPURS Committee may get an opportunity to present his/ her work at the American Geophysical Union (AGU) annual meeting held in December every year. <https://www.climate.iitb.ac.in/spurs/>. The selected candidates for SPURS-2025 are shown in the below image.
- As part of an educational outreach event “TechTrends 2024”, CCS conducted a day-long climate science 101 session for high school students for Filix School of Education, Purulia, West Bengal, led by Retd. Prof. Raghu Murtugudde and Prof. Subimal Ghosh

Workshops on:

- HCI Leadership Workshop on Climate Action & Innovation, funded by Health Climate Initiative
- (SCPP) High Resolution Numerical Simulations for the Atmosphere
- Monsoon Mission
- (SPARC) “Weather Smart and Climate Ready Agricultural Water Management: Challenges and Opportunities”
- Precipitation Variability and Extremes

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	01	21	45

CENTRE FOR EDUCATIONAL TECHNOLOGY

The Centre for Educational Technology (CET) was established at the Institute in 2010-11 as an Interdisciplinary Programme (IDP). It became a Centre in 2024. The CET conducts research in areas of pedagogies and tools for technology-enhanced learning. In addition to the Institute courses, the CET organizes short-term courses and Massive Open Online Courses (MOOCs) on effective teaching and learning with emerging technologies and educational research methods through the Continuing Education Programme (CEP), the National Programme on Technology Enhanced Learning (NPTEL) and IITBombayX (an open-source learning platform). The Centre is instrumental in organizing international conferences, carrying out government and industry-sponsored projects and providing consultancy.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	06
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Academic Programmes:

The CET offers PhD and MTech programmes in Educational Technology. The CET continues to offer core courses and electives in various topics in educational technology to BTech, MTech and PhD students in other academic programmes within the Institute.

Total no. of students on-roll: 67		
Programmes Offered	Students Intake	Degrees Awarded
MTech	10	04
PhD	06	02

R&D Activities:

The main research areas of focus of the CET are as follows:

- **Technology-Enhanced Learning of Disciplinary Practices (TELeAD):** TELeAD focuses on developing students' cognitive skills such as design thinking, problem-posing, estimation, algorithmic thinking, modelling, data representation and analysis and divergent-convergent thinking.
- **Teacher Use of Educational Technology (TUET):** TUET focuses on research-informed development

and outreach of ideas and innovations to empower teachers to use educational technology effectively. Contributions of TUET include models for learner-centric MOOCs and large-scale teacher professional development, development of teachers' design thinking, tools and strategies for effective technology integration and analysis.

- **Educational Data Analytics (EDA):** Educational Data Analytics uses multimodal data such as mouse clicks, MOOC navigation data, eye gaze, facial expressions and skin conductance to understand learner behaviour using machines to model and predict learner behaviour. The Centre also designs and develops intelligent tutoring systems for personalized learning.
- **Exploration of Emerging Technologies for Education (EmergE):** Identify potential benefits that emerging technologies such as augmented reality, virtual reality, wearable devices etc., might afford in the teaching-learning process and design appropriate learning activities using such technologies.
- **Artificial Intelligence (AI) in Education:** AI in Education aims to pioneer intelligent learning solutions, exploring novel applications of Large Language Models (LLMs) for personalized content generation, developing and evaluating practical tools leveraging AI and the ethical integration of AI-driven feedback mechanisms to enhance student outcomes across diverse educational contexts in India.

Projects	Sponsored Projects	Consultancy Projects
New Projects	02	01
Ongoing	03	-
Completed	01	01

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	43	07

CENTRE FOR SYSTEMS AND CONTROL ENGINEERING

The Centre for Systems and Control Engineering, formed in 1977, is a unique interdisciplinary programme in the country. Many alumni of the programme hold senior positions in the control and automation industry and research laboratories in the country.

The Centre is poised for a remarkable future characterized by innovation, adaptability and widespread applications with the integration of emerging technologies such as Artificial Intelligence (AI) and Machine Learning (ML). This synergy provides smarter, more adaptive, secure and interconnected systems, ultimately improving the quality of life and the environment while maintaining sustainability.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	21
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Academic Programmes:

The Centre offers postgraduate programmes in MTech and PhD in the broad area of Systems and Control.

Total no. of students on-roll: 78		
Programmes Offered	Students Intake	Degrees Awarded
MTech	31	08
PhD	08	08

R&D Activities:

The research focus of the core group includes nonlinear control, robotics, path-planning, embedded control, coordination of autonomous vehicles, multi-agent systems, sliding mode control and applications, fractional-order modelling and control, optimization and optimization-based control, stochastic processes, game theory, stochastic control, optimization, economics, information theory and combinatorial coding theory, control theory, NMR spectroscopy, nonlinear and geometric control, quantum information and control. In addition, the associate faculty members pursue research in process

control, identification, behavioural theory, matrix computation and automotive control.

As part of the coursework, the experimental lab at Systems and Control familiarizes students with hardware and software that implements control theories. Various setups based on mechanical, electrical and chemical principles are made available to the students for this purpose. As part of core coursework, all Masters' students are required to understand modelling, communication, sensor calibration and control of hardware to accomplish different control objectives.

Projects	Sponsored Projects	Consultancy Projects
New Projects	04	01
Ongoing	06	10
Completed	05	01

Outreach Activities:

- Learning and Control Colloquium organised by Prof. Debasish Chatterjee and Prof. Abir Dey during 30th August - 1st September, 2024
- Observer and Control Design for Autonomous Vehicles organised by Prof. R. N. Banavar, Prof. Arpita Sinha and Prof. Sukumar Srikant during 22nd - 23rd November, 2024
- SysCon Synergy 2025, the first SysCon student-alumni (hybrid-mode) event, held during 8th - 9th March, 2024

Key Highlight:

Prof. Leena Vachhani and the team developed the patented gearless palm-size spherical robot technology, licensed to Alibi Global Private Limited. It is a state-of-the-art surveillance technology developed for use by defence and law enforcement agencies. This compact, tele-operated robot can be deployed into difficult terrains, providing real-time panoramic visual feedback to its operators.

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	03	-	18	19

KOITA CENTRE FOR DIGITAL HEALTH

The Koita Centre for Digital Health (KCDH) at IIT Bombay is the first-of-its-kind in India, focusing on driving academic programmes, research and industry collaborations in digital health with a vision to be a globally renowned centre.

KCDH was established in June 2021 through a generous contribution from IIT Bombay alumni Rekha Koita (B.Tech, Metallurgical Engineering and Materials Science, 1992) and Rizwan Koita (B.Tech, Electrical Engineering, 1992), under the auspices of the Koita Foundation (www.koitafoundation.org). This Centre addresses the needs of engineers, clinical professionals and entrepreneurs in digital health while creating research and employment opportunities in this domain.

KCDH is actively fostering over 30 partnerships with leading healthcare institutions and major private and public hospital chains across India. These partnerships facilitate data sharing, joint research initiatives and other strategic project collaborations with IIT Bombay. The prestigious advisory board of KCDH comprises renowned professionals from diverse backgrounds, including CEOs and former presidents of leading global medical technology firms, directors of prominent hospitals and professors from top universities worldwide.

Total no. of faculty (Assistant/ Associate/ Full Professors/ Adjunct/ {Visiting-teaching faculty})	09
No. of Post-Doc Fellows	01

Academic Programmes:

KCDH offers the following programmes:

- i. a PhD in Digital Health
- ii. an Interdisciplinary Dual Degree Programme (IDDDP) with a Master's in Healthcare Informatics
- iii. a minor programme in Healthcare Informatics
- iv. a new Master of Science (MS) by Research in Healthcare Informatics - commenced in July 2024
- v. the Dr. Nitish Thakor Excellence Award

Fellowship, implemented in Autumn 2024, for students enrolled in MS Research and IDDDP programmes

Total no. of students on-roll: 33		
Programmes Offered	Students Intake	Degrees Awarded
MS by Research	03	-
PhD	09	-

R&D Activities:

The Koita Centre for Digital Health (KCDH) is engaged in several significant research projects through its Expression of Interest (EOI) funding program, including:

1) Medical Imaging and Diagnostics:

- Prof. Vikram M. Gadre and collaborators from All India Institute of Medical Sciences (AIIMS), New Delhi, are developing multiresolution machine learning models for MRI analysis of stroke patients. Efficient segmentation algorithms have demonstrated the positive impact of clinical interventions. A paper has been accepted for the 2025 International Conference on Acoustics, Speech and Signal Processing (ICASSP 2025), with further manuscripts currently under review.
- Prof. Ajit Rajwade has developed algorithms for image reconstruction under low-radiation settings, addressing safer diagnostic imaging.
- Prof. Biplab Banerjee's team is exploring prompt learning for medical image classification, with two conference papers under review for the 2025 conference on Computer Vision and Pattern Recognition (CVPR) and ICASSP.

2) Wearable Health Monitoring and Cognitive Interfaces:

Prof. Rashmi Gupta's team is designing wearable devices with optimized sensor positioning for physiological and cognitive monitoring. Configurations are being evaluated like glove forms and wristbands. The data collection modules for photoplethysmography (PPG),

temperature and galvanic skin resistance have been integrated. The cognitive task protocols and EEG (electroencephalogram) equipment are being finalized.

3) Computational Biology and Precision Medicine:

- Prof. Sanjeeva Srivastava is leading a machine learning-based proteomics study on triple-negative breast cancer. A pilot with eight paired samples has been completed, protocols optimized and sample acquisition from the Advanced Centre for Treatment, Research and Education in Cancer (ACTREC), Tata Memorial Centre is ongoing. Currently, biomarker validation is underway.
- Prof. Wangikar's group is profiling blood metabolites of patients with Indian Type 2 diabetes to stratify disease severity and identify risks for kidney and cardiovascular complications. A preprint has been published on Research Square and is under review at the *Metabolomics journal*.

4) Health Policy and Systems Modeling:

Prof. Om Damani is modeling antimicrobial resistance (AMR) using a hybrid simulation framework that combines system dynamics and agent-based modeling. This approach allows exploration of infection spread at both macro and micro levels.

5) Health Data and Intellectual Property Generation:

Prof. Ashutosh Kumar has reported one patent and one publication stemming from a diabetes-focused project, jointly supported by KCDH and Wadhvani Research Centre for Bioengineering (WRCB).

These initiatives reflect KCDH's commitment to interdisciplinary innovation in digital health, leveraging AI, simulation and omics technologies for real-world clinical and public health impact.

Projects	Sponsored Projects	Consultancy Projects
New Projects	02	-
Ongoing	04	-

Highlights:

1) Clinical AI Deployment:

Prof. Kshitij Jadhav's laboratory won the Best *Digital Health Tech Award* at the Transforming Healthcare with IT Solutions Conference 2025. They were recognized for their *AI-driven Acute Kidney Injury (AKI)* alert system developed in collaboration with Kokilaben Ambani Hospital.

Outreach Activities:

- Prof. Ranjith Padinhateeri, Professor-In-Charge, KCDH, organised and led a symposium titled "*Digital Health Horizons*" on 16th March, 2025. More than 85 participants from medical and engineering colleges across Maharashtra, along with working professionals attended the event
- Co-organized the 3rd Annual Global Women's Health Innovation Conference (GWHIC) 2024 with Collab Function as an academic partner on 11th December, 2024. The event hosted at IIT Bombay, saw attendance by over 200 participants including students, industry professionals and government stakeholders.

Publications:

	Books Published	Chapters in Books	Papers in Conference	Papers in Journals
Total	-	-	23	-

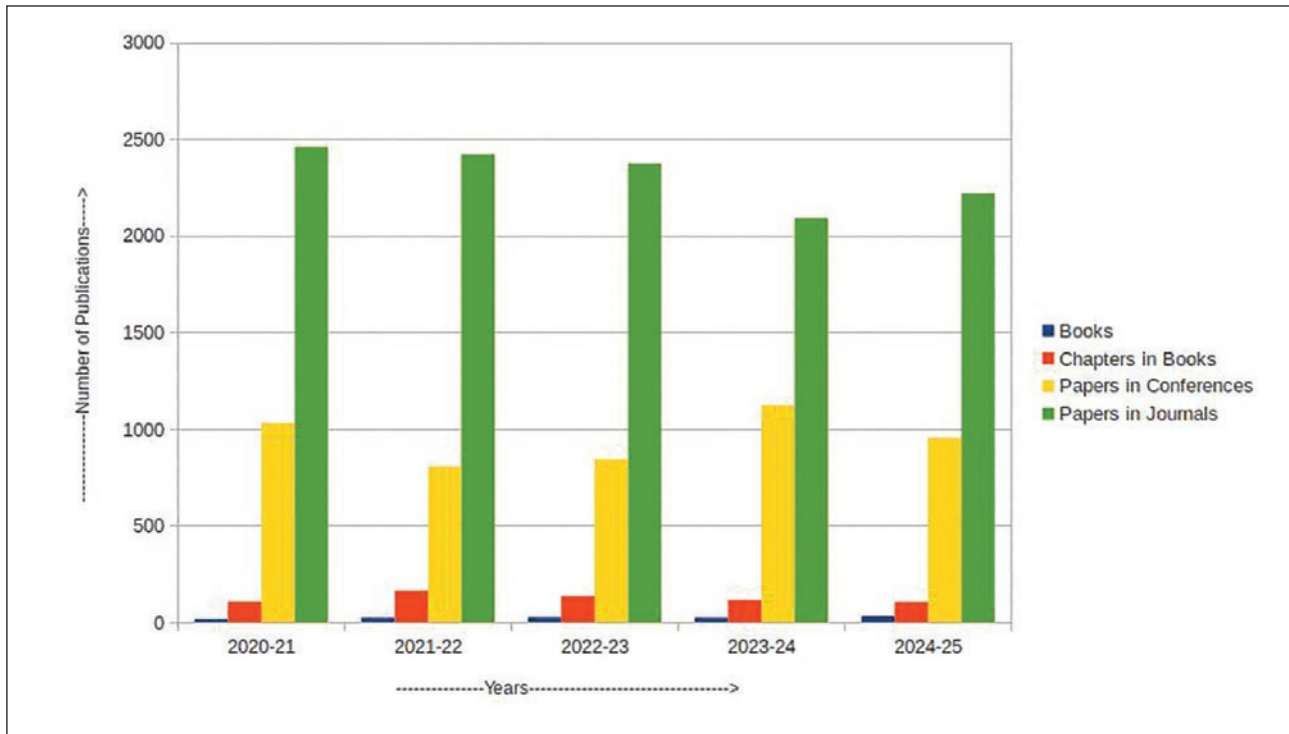


(From L to R) Shobhit Aggarwal (IDDDP), Neegar Naushaba Iqbal (MS by Research), Dr. Nitish Thakor (Professor, Biomedical Engineering and Neurology, Johns Hopkins University School of Medicine) and Pratyush Prasad (MS by Research) during felicitation of inaugural Dr. Nitish Thakor Excellence Awards

PUBLICATIONS

The number of publications by faculty members of IIT Bombay are steadily increasing. During the year 2024-25, 31 Books, 106 Chapters in Books, 2221 Papers in Journals and 957 papers in Conference were published by the Institute’s faculty.

Given below is the graphical representation of the Papers in Journals, Papers in Conferences, Books and Chapters in Books published by Institute’s faculty in the last five years:



Year	Papers in Journals	Papers in Conference	Books	Chapters in Books
2020-21	2461	1030	18	107
2021-22	2423	807	23	163
2022-23	2375	845	26	136
2023-24	2093	1124	23	113
2024-25	2221	957	31	106

Over the past five years, the publication trends show a mixed pattern across different categories. Journal publications have steadily declined from 2,461 in 2020–21 to 2,093 in 2023–24, indicating a gradual reduction and a slight increase from 2093 in 2023–24 to 2221 in 2024–25 in research papers being published in peer-reviewed journals. Conference papers, on the other hand, show fluctuations, with a low of 807 in 2021–22 and a peak of 1,124 in 2023–24, before slightly reducing to 957 in 2024–25.

Book publications have demonstrated consistent growth, rising from 18 in 2020–21 to 31 in 2024–25, reflecting increasing engagement in long-form academic contributions. Similarly, book chapters witnessed a peak of 163 in 2021–22 but later stabilized around 106–136 in subsequent years. Overall, while journal publications display a declining trend, the rise in books and sustained contributions in conference proceedings and book chapters suggest diversification of research dissemination avenues.

ORGANIZATION



Dr. Sharad Kumar Saraf
Chairperson,
Board of Governors
From: July 12, 2022



Prof. Shireesh B. Kedare
Director
From: May 6, 2024



Prof. Milind Atrey
Dy. Director
(Academics, Research & Translation)
From: July 1, 2024



Prof. K V Krishna Rao
Dy. Director, (Finance, Infrastructure
& Administration)
Upto September 30, 2025



Prof. Sachin Patwardhan
Dean
(Research & Development)
From: August 1, 2023



Prof. Suvarn Kulkarni
Dean
(Academic Programmes)
From: July 2, 2024



Prof. Vedagiri Perumal
Dean
(Infrastructure Planning & Support)
From: June 12, 2024



Prof. Ravindra Gudi
Dean
(Alumni & Corporate Relations)
Upto July 31, 2025



Prof. Upendra Bhandarkar
Dean
(Alumni & Corporate Relations)
From: August 1, 2025



Prof. Suryanarayana Doolla
Dean
(Students Affairs)
From: March 3, 2023



Prof. Sudarshan Kumar
Dean (International Relations)
From: January 4, 2024



Prof. Neela Nataraj
Dean (Faculty Affairs)
Upto May 8, 2025



Prof. Santosh J. Gharpure
Dean (Faculty Affairs)
From May 9, 2025



Prof. K. P. Kaliappan
Dean (Strategy)
From: August 3, 2022



Prof. Siddhartha Ghosh
Dean (Educational Outreach)
Upto October 6, 2024



Prof. Usha Ananthakumar
Dean (Educational Outreach)
From: October 7, 2024



Prof. Nand Kishore
Dean (Administrative Affairs)
From: August 7, 2023



Mr. Ganesh K. Bhorkade
Registrar
From: November 1, 2021

IIT COUNCIL

Minister in charge of Technical Education in the Central Government (Ex-Officio)	Chairman
Chairman of Board of Governors of all Indian Institutes of Technology (Ex-Officio)	Member
Director of all Indian Institutes of Technology (Ex-Officio)	Member
Chairman, University Grants Commission (Ex-Officio)	Member
Director General, Council of Scientific and Industrial Research (Ex-Officio)	Member
Chairman, Indian Institute of Science, Bangalore (Ex-Officio)	Member
Director, Indian Institute of Science (Ex-Officio)	Member
Three nominees of the Central Government	Member
To represent the Ministry concerned with Technical Education	Member
To represent the Ministry of Finance	Member
To represent any other Ministry	Member
Nominee of the All India Council for Technical Education (AICTE)	Member
Nominees of the Visitor (minimum 3 and maximum 5)	Member
Three Members of Parliament (two from Lok Sabha and one from Rajya Sabha)	Member
Secretary to the Council	Secretary

Members of the Board of Governors

Nominated by Visitor	Dr. Sharad Kumar Saraf, Chairman, Technocraft Industries (India) Ltd., Technocraft Group, Bombay, Technocraft House, A-25, MIDC, Marol Industrial Area, Road No.3, Opp ESIC Hospital, Andheri (East), Mumbai – 400 093.	Chairperson
Ex-officio	Prof. Shireesh B. Kedare, Director, IIT Bombay, Powai, Mumbai – 400 076.	Member
Council Nominees (Three)	Ms. Saumya Gupta, Joint Secretary, Ministry of Education (TE), 203-C, Shastri Bhawan, New Delhi - 110015	Member
	Prof. Aniruddha B. Pandit, Vice Chancellor, U.G.C. Professor, Department of Chemical Engineering, Institute of Chemical Technology Bombay, Matunga, Mumbai - 400019.	Member
	Prof. Paresh K. Joshi, Room 106 NIUS Building, Homi Bhabha Centre for Science Education, TIFR, V.N. Purav Marg, Mankhurd, Mumbai -400088.	Member
State Government Nominees (Two)		
Maharashtra	Mr. B. Venugopal Reddy (From 17.02.2025) Mr. Vikas Rastogi, IAS (Upto 02.01.2025) Additional Chief Secretary, Higher and Technical Education Government of Maharashtra, Mantralaya, Mumbai – 400 032.	Member
Dadra and Nagar Haveli	Shri Praful K. Patel, Administrator, U.T. of Daman and Diu, and Dadra and Nagar Haveli, Silvassa – 396 230.	Member
Senate nominees (Two)	Prof. Swati Patankar, Department of Biosciences and Bioengineering, IIT Bombay, Mumbai 400 076	Member
	Prof. B.G. Fernandes, Department of Electrical Engineering, IIT Bombay, Mumbai - 400 076.	Member
Ex-officio	Mr. Ganesh Bhorkade Registrar, IIT Bombay Powai, Mumbai – 400 076	Secretary

Members of the Finance Committee

<p>Dr. Sharad Kumar Saraf, Chairman, Technocraft Industries (India) Ltd., Technocraft Group, Bombay, Technocraft House, A-25, MIDC, Marol Industrial Area, Road No.3, (Opposite ESIS Hospital), Marol Industrial Area, Andheri (East), Mumbai – 400 093.</p>	<p>Chairman</p>
<p>Prof. Shireesh B. Kedare, IIT Bombay, Powai, Mumbai – 400 076.</p>	<p>Member (Ex-officio)</p>
<p>Ms. Saumya Gupta, Joint Secretary, Ministry of Education (TE), Department of Higher Education, Government of India, Shastri Bhavan, New Delhi – 110 015.</p>	<p>Member</p>
<p>Mr. Sanjog Kapoor, Joint Secretary and Financial Advisor, Ministry of Human Resource Development, Department of Higher Education, Technical Section-1, Government of India, Shastri Bhavan, New Delhi – 110 015.</p>	<p>Member</p>
<p>Mr. Sandeep Asthana, B2-1101, Mahindra Eminente, Near Patkar College, S. V. Road, Goregaon (West), Mumbai – 400 062.</p>	<p>Member</p>
<p>Prof. K V Krishna Rao Dy. Director (Finance, Infrastructure and Administration), IIT Bombay, Powai, Mumbai – 400 076.</p>	<p>Member</p>
<p>Mr. Ganesh Bhorkade, Registrar, IIT Bombay Powai, Mumbai – 400 076</p>	<p>Secretary (Ex-officio)</p>

Building and Works Committee

Prof. Shireesh B. Kedare Director, IIT Bombay, Powai, Mumbai – 400 076.	Chairman
Superintending Engineer, Office of the Supdt. Engineer, Mumbai Central Circle-1, CPWD, 5th Floor, Pratishta Bhavan, 101 MK Road, Mumbai – 400 020.	Member
Superintending Engineer, Mumbai (P.W.D) Circle, 25 Murzban Road, Fort, Mumbai – 400 001.	Member
Dr. V.S. Phanikant (From 07.10.2024), Mr. K. Srinivas (Upto 30.09.2024), Head, Architectural and Civil Engg. Division, BARC, North Site, Trombay, Mumbai – 400 085.	Member
Mr. Vinod P. Chithore, Chief Engineer, Vigilance, MCGM, MCGM Vigilance Officer	Member
Mr. Sunil Rathod, Chief Engineer (Development Planning), Office of Chief Engineer (Development Planning), Mumbai.	Member
Prof. P. Vedagiri, Dean (Infrastructure Planning and Development), IIT Bombay, Powai, Mumbai – 400 076.	Member
Mr. Ganesh Bhorkade Registrar, IIT Bombay Powai, Mumbai – 400 076	Member-Secretary (Ex-officio)

SUMMARY OF ACCOUNTS

Consolidated Account: Balance Sheet as at 31/03/2025

(Amount in Rupees)

Particulars	Schedule	Current Year 2024-2025	Previous Year 2023-2024
SOURCES OF FUNDS			
CORPUS / CAPITAL FUND	1	6765438504	5,153,131,817
DESIGNATED / EARMARKED / ENDOWMENT FUNDS	2	10034932364	9449735822
CURRENT LIABILITIES AND PROVISIONS	3	36395373574	31319141407
TOTAL (A)		53195744442	45922009046
APPLICATION OF FUNDS			
FIXED ASSETS			
TANGIBLE ASSETS	4	17959103968	14749749610
INTANGIBLE ASSETS	4	211795095	159295767
CAPITAL WORKS-IN-PROGRESS	4	7058514514	6654968942
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5	834608354	1239569566
CURRENT ASSETS	7	22902791303	19156126407
LOANS, ADVANCES AND DEPOSITS	8	4228931208	3962298754
TOTAL (B)		53195744442	45922009046
SIGNIFICANT ACCOUNTING POLICIES	24		

INCOME & EXPENDITURE FOR THE YEAR ENDED 31/03/2025

(Amount in Rs.)

Particulars	Schedule	Current Year 2024-2025	Previous Year 2023-2024
INCOME			
ACADEMIC RECEIPTS	9	1487982031	1548415138
GRANTS/SUBSIDIES(IRREVOCABLE GRANTS RECEIVED)	10	9453943547	8663819354
INCOME FROM INVESTMENTS	11	1237587097	1150245135
INTEREST EARNED	12	17453935	9790064
OTHER INCOME	13	878453434	859208259
PRIOR PERIOD INCOME	14	1863860	83941
TOTAL(A)		13077283904	12231561891
EXPENDITURE			
STAFF PAYMENTS AND BENEFITS (ESTABLISHMENT EXPENSES)	15	8701314505	7947005684
ACADEMIC EXPENSES	16	1415517775	1385389880
ADMINISTRATIVE AND GENERAL EXPENSES	17	2301070880	2037583232
TRANSPORTATION EXPENSES	18	9298436	5499393
REPAIRS AND MAINTENANCE	19	1316163216	967479237
FINANCE COSTS	20	85859022	81766775
OTHER EXPENSES (WRITE OFF)	21	6616316	11208353
PRIOR PERIOD EXPENSES	22	3545766	1174547
DEPRECIATION	4	1675408384	1861388983
TOTAL(B)		15514794300	14298496084
BALANCE BEING EXCESS OF INCOME OVER EXPENDITURE (A-B)		-2437510396	-2066934193
ADJUSTED FROM CAPITAL FUND (DEPRECIATION)		1675408384	1861388983
ADJUSTED FROM CAPITAL FUND (WRITE OFF)		6616316	4303750
TRANSFER TO HEFA		376220000	580310000
TRANSFER TO CAPITAL FUND (3 -C)		161732531	193210083
TRANSFER FOR ADVANCE CAPITAL EXPENDITURE		88700000	281858466
TRANSFER TO GENERAL RESERVE - MAIN ACCOUNT		107238778	276268416
TRANSFER TO IRCC FUND		337005949	345810461
TRANSFER TO GENERAL RESERVE - DONATION ACCOUNT		34,58,10,461	30,04,62,950
BALANCE BEING SURPLUS/ (DEFICIT) CARRIED TO CORPUS/ CAPITAL FUND		-1826382953	-1878698886
SIGNIFICANT ACCOUNTING POLICIES	23		
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS	24		

Note : Deficit transfer to General Reserve Rs.1826382953 /- is on account of actuarial value provision in r/o Leave Encashment, Gratuity and Pension

RECEIPT AND PAYMENTS FOR THE PERIOD FROM 01/04/2024 to 31/03/2025

RECEIPTS	Amount In Rs.	PAYMENTS	Amount In Rs.
I. Opening Balances		I. Expenses	
a) Cash Balances	145375	a) Establishment Expenses	5939793062
b) Bank Balances		b) Academic Expenses	1215922036
i. In Current accounts	433773675	c) Administrative Expenses	2270107418
ii. In Deposits accounts	0	d) Transportation Expenses	8804857
iii. Savings accounts	0	e) Repairs & Maintenance	1404329574
		f) Prior Period Expenses	0
II. Grants Received		II. Payments against Earmarked/ Endowment Funds	69704960
a) From Government of India	12519743547		
b) Grant in aid due in 2021 - 22 received in 2022 - 23	0		
c) From State Government	0		
d) From Other sources (details)	0		
III. Academic Receipts		III. Payments against Sponsored Projects/Schemes	1614800489
a) Fee from Students	975983897		
b) Other Receipts from Students	290982585		
c) All India Entrance Examination Receipts	244116209		
IV. Receipts against Earmarked/ Endowment Funds	158459595	IV. Payments against Sponsored Fellowships/Scholarships	448283335
V. Receipts against Sponsored projects/ Schemes	414225075	V. Investments and Deposits made	0
		a) Out of Earmarked/ Endowments Funds	0
		b) Out of own funds (Investments - Others)	0
VI. Receipts against sponsored Fellowships/ Scholarships	414225075	VI. Term deposits with Scheduled Banks	28802467283
VII. Income on investments from	0	VII. Expenditure on Fixed Assets and Capital Works - in - Progress	
a) Earmarked/ Endowment Funds	0	a) Fixed Assets	2536602620
b) Other investments	0	b) Capital Works - in - Progress	1105038785
VIII. Interest received on		VIII. Other Payments including statutory payments	3223094001
a) Bank Deposits	1816511500		
b) Loans and Advances	0		
c) Savings Bank Accounts	0		

RECEIPTS	Amount In Rs.	PAYMENTS	Amount In Rs.
d) Accrued Interest	0		
IX. Investments encashed	26055721226	IX. Refunds of Grants	0
X. Term Deposits with Scheduled Banks encashed	0	X. Deposits and Advances	0
		a) Advances account	1504888768
		b) Refundable Deposits	237442066
		c) Recoverable Deposits	7016831
XI. Other income (including Prior Period income)		XI. Other Payments	
a) Continuing Education programme	72637966	a) Grants from other organisations	1320936183
b) Miscellaneous Receipts	369300502	b) Sundry Creditors	656618779
c) Guest House receipts	75337837	c) Loan - Inter Department	0
		d) Surplus transfer to Endowment	0
		e) Other Payments - Main Account	340902226
		f) Other Payments - Donation Account	312562030
		g) Other Payments - IRCC Account	3376228733
XII. Deposits and Advances	0	XII. Closing balances	
a) Advances account	22819028		
b) Refundable account	331465821	a) Cash in hand	108818
c) Recoverable Deposits	0	b) Bank balances	
		c) Current Accounts	813373842
XIII. Miscellaneous receipts including Statutory receipts	2811066675		
a) Other Adjustable Accounts	0		
XIV. Any Other Receipts			
a) Grants from other Organisations	3820603707		
b) Sundry Debtors	173171785		
c) Loan - Inter Department			
d) Other Receipts - Main Account	812246080		
e) Other Receipts - Donation Account	87352996		
f) Other Receipts - IRCC Account	2701635715		
TOTAL	57209026698	TOTAL	57209026698



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