

## IIT Bombay Celebrates 66th Foundation Day



(From L- R): Prof. Shireesh Kedare, Director of IIT Bombay; Chief Guest Mr. Ravi Pandit and Dr. Sharad Kumar Saraf, Chairperson, Board of Governors, IIT Bombay during the 66th Foundation Day event

IIT Bombay celebrated its **66th Foundation Day** on 10th March, 2025 by honouring the contributions of its faculty and alumni who have left their mark in their chosen fields of profession. The event marked more than six decades of academic excellence, pioneering research and global contributions in science, technology and innovation. The Foundation Day function was graced by **Mr. Ravi Pandit**, Founder-Chairman and current Non-Executive Chairman, KPIT Technologies Ltd., who served as the Chief Guest.

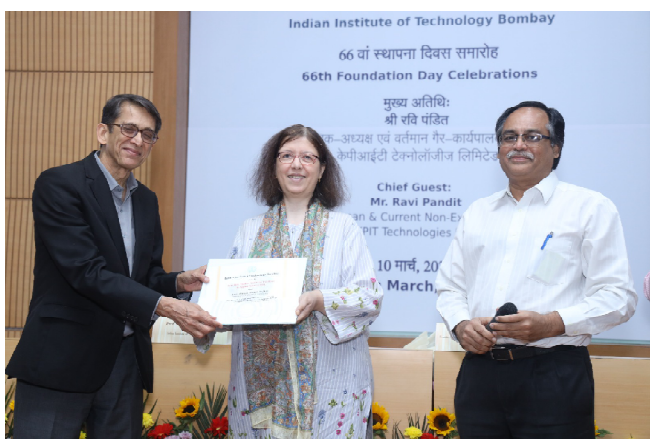


**Prof. Shireesh Kedare**, the Director of IIT Bombay, delivered the welcome address highlighting the Institute's remarkable journey, its continued pursuit of academic and research excellence and its vision for the future. **Prof. Kedare** said, *"IIT Bombay is looking forward to doing things differently and reaching out to industry and society more actively and systematically and involve its alumni in a more meaningful manner"*.

The Chief Guest **Mr. Ravi Pandit** said, *"We are living in extraordinary times - the times of phenomenal breakthroughs in science and technology. We must focus on 3 critical pillars: intelligence, energy and materials. Everything biological or non-biological depends on these three. Innovations in clean and secure energy, advanced materials and AI are reshaping our world. At the same time, we face significant challenges: societal security, energy security and climate security. The question is, how will we participate in shaping this change?"*.



IIT Bombay conferred the **Prof. S.C. Sahasrabudhe Lifetime Achievement Award (2024-2025)** on **Prof. Jayesh Bellare**, Department of Chemical Engineering, in recognition of his outstanding contributions as a teacher, researcher and administrator.



The '**Prof. H. H. Mathur Award for Excellence in Research in Applied Sciences (2024)**' was conferred on **Prof. Maryam Shojaei Baghini**, Department of Electrical Engineering, for her outstanding contributions in the area of Analog/ Mixed-Signal IC Design, Sensor-Systems, Energy Harvesting Circuits & Systems, Neuromorphic Engineering.



The '**Prof. S.C. Bhattacharya Award for Excellence in Research in Pure Sciences (2024)**' was conferred on **Prof. Gopalan Rajaraman**, Department of Chemistry, for his outstanding contributions in the areas of Molecular Magnetism, Bioinorganic Chemistry, Spintronics and Catalysis.

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, honoring their dedicated efforts to create and maintain a clean and green campus. The winners were selected following a detailed inspection and assessment by a committee held during 24th-28th February, 2025.



**Best Academic Unit**  
Department of Civil Engineering



**Best Non-Academic Unit**  
Hospital Section



The awardees along with Chief Guest Ravi Pandit (center) and IIT Bombay functionaries during 66th Foundation Day celebrations

The Institute honored its select alumni for their significant contributions and excellence in various fields including Academia, Corporate World, Entrepreneurship, Government and Public Sector, and Technology, Innovation and Research. The awardees for the **Distinguished Alumnus Awards (DAA) 2025** include:

- |                              |                           |
|------------------------------|---------------------------|
| * Prof. Rajesh N. Dave       | * Mr. Lucky Vasant Shah   |
| * Prof. Anirudhha Gole       | * Mr. Jagdish J. Moorjani |
| * Prof. Venugopal Veeravalli | * Mr. Sameer Halepete     |
| * Mr. Pramod Agrawal         | * Mr. Jitendra Mohan      |
| * Mr. Mahesh Kumar Navani    | * Dr. Dileep George       |
| * Prof. Punya Mishra         | * Dr. Aranyak Mehta       |
| * Mr. Alok Maskara           | * Mr. Lalit Keshre        |

Instituted in the year 2011, the Young Alumni Achiever Awards (YAAA) honours the alumni who have made outstanding achievements in their chosen field of work and are below 40 years of age. The awardees for the **Young Alumni Achiever Awards (YAAA) 2025** were:

- |                         |                      |
|-------------------------|----------------------|
| * Mr. Dhruv Arora       | * Mr. Deepak Diwakar |
| * Mr. Maneesh Kalwaniya | * Prof. Nisarg Shah  |
| * Mr. Aniket Deb        |                      |

**The Clean & Green Campus Initiative 2024-25 winners are as follows:**

Rank	Category	
	Best Academic Unit	Best Non-Academic Unit
1st 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 felicitated:

- **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**

## TIH Hosts India's Top Academic Researchers At ATMAN 2.0



(From l-r front row) Prof. Leena Vachhani, PiC, TIH-IoT, IIT Bombay; Dr. Ekta Kapoor, Head-FFT Division, DST; Prof. Abhay Karandikar, Secretary, DST, GoI; Mr. Kiran Shesh, CEO, TIH-IoT, IIT Bombay; Mr. Prasad Ramanathan, CTO, TIH-IoT and others during ATMAN 2.0 event

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.

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.

Addressing the gathering, **Prof. Milind Atrey**, Deputy Director (Academics, Research and Translation), IIT

Bombay said, *"ATMAN 2.0 aims to bridge the gap between academic innovation and industry, a proud milestone for our Institute. It strengthens our efforts to transform innovative translational research into market-ready solutions"*.

Commenting on the occasion, **Prof. Abhay Karandikar**, Secretary, Department of Science and Technology (DST), Government of India (GoI) stated, *"ATMAN 2.0 represents a major stride in advancing innovation, bridging labs to markets. It underscores our commitment to transforming academic research into impactful solutions for national progress"*.

During the event, **Mr. Kiran Shesh**, CEO, TIH-IoT, IIT Bombay said, *"ATMAN 2.0 showcases the evolving strength of TIH as an organization. Our focus remains on recruiting exceptional talent and developing a culture of ambitious thinking and impactful execution. We are well-positioned to take on more projects of national importance"*.

The inaugural session concluded with the remarks of **Dr. Ekta Kapoor**, Head – Frontier and Futuristic Technologies (FFT) Division, DST.

## Presentation By Rakesh Mathur Research Awardees

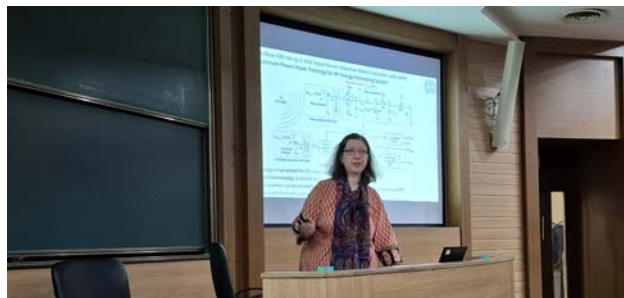
The **Office of Dean (Research and Development), IIT Bombay** organised a presentation by the **recipients of the Rakesh Mathur Awards for Excellence in Research - 2024** of their work for the IIT Bombay academic community on 12th March, 2025. The presentations were focused on the significance of the work leading to these research awards. **Prof. Sachin Patwardhan**, Dean (Research and Development) gave introductory remarks about the programme.



**Speaker:** Prof. Gopalan Rajaraman, Department of Chemistry

**Award:** Prof. S.C. Bhattacharya Award for Excellence in Pure Sciences 2024

**Presentation Title:** Role of Molecular Modelling in the Design and Development of Molecular Nano Magnets



**Speaker:** Prof. Maryam Shojaei Baghini, Department of Electrical Engineering

**Award:** Prof. H.H. Mathur Award for Excellence in Applied Sciences 2024

**Presentation Title:** A/MS IC design for “sensor signal conditioning to computing and energy harvesting”

## IIT Bombay Conducts Lectures On Nobel Prizes 2024

The **Industrial Research and Consultancy Centre (IRCC)** organized the inaugural session on Nobel Prizes 2024 Lectures in the disciplines of Physics, Physiology/ Medicine and Chemistry on 22nd January, 2025. The subsequent session covering the Economics and Literature categories was held on 5th February, 2025. These lectures highlighted the significance of the work leading to Nobel Prizes.

**Prof. Sachin Patwardhan**, Dean (Research and Development), gave introductory remarks about the programme.

Category	Speaker [Prof.]	Laureate(s) [Prof.] and Awarded work	Title of talk
Physics	<b>Prof. Siddhartha Santra</b> , Department of Physics	<b>John J. Hopfield &amp; Geoffrey Hinton</b> “for foundational discoveries and inventions that enable machine learning with artificial neural networks”	Artificial Neural Networks: Origins and Applications
Physiology or Medicine	<b>Prof. Sreelaja Nair</b> , Department of Biosciences and Bioengineering	<b>Victor Ambros &amp; Gary Ruvkun</b> “for the discovery of microRNA and its role in post-transcriptional gene regulation”	Micromanaging Genes: Big Changes by Small RNAs
Chemistry	<b>Prof. Raghavan B. Sunoj</b> , Department of Chemistry	<b>David Baker</b> “for computational protein design” and <b>Demis Hassabis &amp; John Jumper</b> “for protein structure prediction”	Protein structure prediction and design using AI
Economics	<b>Prof. Aditi Chaubal</b> , Department of Economics	<b>Daron Acemoglu, Simon Henry Roberts Johnson and James A. Robinson</b> “for studies of how institutions are formed and affect prosperity”	How institutions are formed and affect prosperity?
Literature	<b>Dr. Dhurjjati Sarma</b> , Department of Modern Indian Languages and Literary Studies, Gauhati University, Assam, India	<b>Han Kang</b> “for her intense poetic prose that confronts historical traumas and exposes the fragility of human life”	Nobel Prize in Literature 2024: Han Kang and the Triumph of the Green

The lectures were well-attended by faculty members, students and the staff. Prof. Patwardhan delivered vote of thanks.

## Union MoS For Education And DoNER Dr. Sukanta Majumdar Visits IIT Bombay



(From L-R): Prof. K.V. Krishna Rao, Deputy Director (FIA); Prof. Shireesh Kedare, Director; Dr. Sukanta Majumdar, Union MoS For Education and DoNER and Prof. Milind Atrey, Deputy Director (ART) during launch of IIT Bombay's Sustainability Policy

On 6th January, 2025, **Dr. Sukanta Majumdar**, Hon'ble Minister of State (MoS) for Education and Development of North East Region (DoNER) chaired a review meeting to assess the functioning of the Institute during his visit to IIT Bombay.

**Prof. Shireesh Kedare**, the Director, welcomed the Hon'ble Minister in the presence of **Prof. K.V. Krishna Rao**, Deputy Director (Finance, Infrastructure and Administration (FIA)) and **Prof. Milind Atrey**, Deputy Director (Academics, Research and Translation (ART)).

The review meeting included presentations by **Prof. Sachin Patwardhan**, Dean (Research and Development) on '**Research and Development activities at IIT Bombay**'; **Prof. R. Murugavel**, Professor-In-Charge, Institution of Eminence (IoE) Cell on '**Progress of Institute Activities under IoE**' and **Prof. K.P. Kaliappan**, Dean (Strategy) on '**Overall progress of IIT Bombay**'.

On the occasion, Dr. Majumdar **launched IIT Bombay's Sustainability Policy, GreenPrint - the inaugural newsletter of IIT Bombay's Research Hub for Green Energy and Sustainability (GESH)** and the **report of**

**Pan-IIT Sustainability Conclave** organised by IIT Bombay. The Institute's Sustainability Policy document is available at: <http://bit.ly/4cmQ9hA>

During the launch event, **Prof. Anurag Garg**, former Associate Dean (Infrastructure Planning and Support (IPS) - III), made a brief presentation on IIT Bombay's Campus Sustainability plan. **Prof. Sanjay Mahajani**, Professor-In-Charge, GESH, also spoke on expanding GESH's vision for a sustainable future.

Explaining further, Prof. Mahajani said GESH is an initiative at IIT Bombay to enable research, education and related activities for sustainable development, providing technical and financial support for research in the domain of green energy, sustainability and climate change. GESH also introduces new courses for academia and industry in the domain of sustainability.

Appreciating the Institute's commitment to excellence, **Dr. Sukanta Majumdar** said, "*The excellent research and innovation activities of IIT Bombay will help in achieving the dream of Viksit Bharat*". He also suggested that IIT Bombay should work with young students and expose them to a research environment.



Following the meeting, he visited the Department of Biosciences and Bioengineering, the Society for Innovation and Entrepreneurship (SINE) and IIT Bombay Research Park (IITBRP).



During the event, Dr. Majumdar also planted a sapling as part of the “**Ek Ped Maa Ke Naam**” campaign. This initiative reflects a deep commitment to environmental conservation and sustainable development.

## 337 Students Receive Degrees During Interim Session Of 63rd Convocation Ceremony At IIT Bombay



(From L- R): Dr. Sharad Kumar Saraf, Chairperson of the Board of Governors, IIT Bombay; Chief Guest Mr. Abhishek Singh and Prof. Shireesh Kedare, Director of IIT Bombay during the interim session of 63rd convocation ceremony of the Institute

The Indian Institute of Technology Bombay held the **Interim session of its 63rd Convocation** at the Institute's Convocation Hall on 22nd February, 2025. Students who successfully completed their academic requirements between August 2024 and January 2025 were awarded the degrees during the occasion.

A total of **354** degrees, including **219** PhD degrees (including dual degrees such as MTech/ MSc + PhD and Joint PhD of IITB-Monash University) were conferred at this special convocation. Additionally, **135** degrees were awarded across various other programs, including **36** Executive MBA (E-MBA) degrees and **6** Master in Development Practice (MDP) in CTARA, which were awarded for the first time.

The Interim Convocation allows students who have completed their degree requirements to receive their degrees earlier than the formal 63rd Convocation, enabling them to pursue career opportunities and further academic endeavours without delay.



**Mr. Abhishek Singh**, IAS, Additional Secretary, Ministry of Electronics and Information Technology (MeitY), Government of India, graced the occasion as the Chief Guest. The event was presided over by **Dr. Sharad Kumar Saraf**, Chairperson of the Board of Governors, IIT Bombay, while the degrees were conferred by the Director **Prof. Shireesh Kedare**. Addressing the graduating students, Chief Guest **Mr. Abhishek Singh** in his address spoke about India's research ecosystem and how we can collectively contribute to positioning India as a global leader in the Deep Tech Revolution. He said, "Imagine a future where the thesis of 219 PhD scholars are turned into research projects. Do not just earn your degrees, but power

*startups, shape policies and solve societal challenges. That's the ecosystem we are building, one where curiosity meets application and innovation drives prosperity. Your role in the next 25 years will be very vital, very critical as India marches on its goal towards becoming a Viksit Bharat, a developed nation by 2047".*

He further added, "I am sure you all have recognised your mission and decided on things to do once you step out of this beautiful campus. Yet, I will share 4 mantras that can guide you in your path. These are:

- \* Engaging in problem-solving research that addresses India's unique challenges
- \* Collaborate with industry to ensure that your innovations transform into tangible solutions
- \* Embrace risk and failure as stepping stones to breakthroughs
- \* Champion ethical and responsible innovation in an age where technology shapes societies

*The journey ahead is both exciting and demanding. India's aspirations of becoming a developed nation by 2047 rests on the shoulders of its researchers, technologies and innovators. The work you do today will define India's place in the global knowledge economy".*



**Dr. Sharad Kumar Saraf**, Chairperson of the Board of Governors, IIT Bombay remarked, *"My suggestion to the passing students is to see if you can put your knowledge earned in this Institute for the benefit of industry and thereby help in the economic growth of the country. IITs and its alumni have created a world-famous brand name and now, it is time for you to take this brand forward. I request you to remember that the success you will achieve is all because of your alma mater".*

*Congratulating the students, their families and faculty members, IIT Bombay Director Prof. Shireesh Kedare said, "IIT Bombay, with its 66-year legacy, continues to evolve as a global leader in education, research and innovation. Our commitment to excellence drives us to expand interdisciplinary fields, foster entrepreneurship and create societal impact. As you step beyond the gates of IIT Bombay, you carry with you not just knowledge but the resilience, curiosity and problem-solving mindset that defines a true engineer, scientist and leader. The world today demands innovation, integrity and a commitment to making a difference—values that have been at the core of your journey here. To our graduates, may you shape a future that's brighter, bolder and boundless in possibilities".*

The ceremony was attended by **Prof. Markus Baer**, Vice Dean of Degree and Non-Degree Executive Education and Professor of Organizational Behaviour, Olin Business School, Washington University, St. Louis, USA, graduating students, faculty members, proud families and friends who gathered to celebrate this academic milestone.



*Tony Kurian, a visually impaired student receiving his PhD degree*

The event was broadcast live on:  
<https://www.youtube.com/IITBombayOfficialChannel>



*Graduating students during the interim session of the 63rd convocation ceremony*

## IIT Bombay Celebrates 76th Republic Day



Republic Day celebrations at the Institute's Gymkhana ground

IIT Bombay celebrated the **76th Republic Day** on 26th January, 2025. The celebration 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 essay writing competition on **"Role of educational institutes in the fight against corruption"** held during Vigilance Awareness Week 2024. 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 celebrations by the students of Aman Day Care Centre, Campus School, Kendriya Vidyalaya, IIT Bombay and National Service Scheme (NSS).

### Winners of Vigilance Essay Competition 2024

#### EMPLOYEES

##### First prize: (Sharing)

1. **Ashish R. Patil**  
IIT Bombay Campus School and Jr. College
2. **Kiran R. Janjalkar**  
Office of Dean, Infrastructure Planning and Support

##### Second prize: (Sharing)

1. **Rohan Bhardwaj**  
Industrial Research and Consultancy Centre
2. **Yogesh R. Sonawane**  
Department of Mechanical Engineering

##### Third Prize: (Sharing)

1. **Aparna Raj C**  
Centre for Technology Alternatives for Rural Areas
2. **Nanaso Shingade**  
Department of Biosciences and Bioengineering

#### STUDENTS

##### First prize: (Sharing)

1. **Shubham Anand**  
Shailesh J. Mehta School of Management  
(Third year, Ph.D., Roll No. 22D1503)
2. **Stavan Pancholi**  
Department of Humanities and Social Sciences  
Second year, Ph.D., Roll No. 23D0741

##### Second prize: (Sharing)

1. **Rohit Jana**  
Second year, M.Sc. Statistics, Roll No. 23N0072  
Department of Mathematics
2. **Dipmala Mohinta**  
Fifth year, Ph.D., Roll No. 194126002  
Department of Physics

##### Third prize: (Sharing)

1. **Nupur Dewangan**  
Department of Mechanical Engineering  
First year, B.Tech., Roll No. 24B2163
2. **Manish Bajpai**  
Centre for Technology Alternatives for Rural Areas  
First year, M.Tech., Roll No. 24M0215

### Visitor's Conference 2024-25



The Hon'ble President of India **Smt. Droupadi Murmu** inaugurated the two-day **Visitor's Conference 2024-25** at Rashtrapati Bhavan on 3rd March, 2025. **Shri Dharmendra Pradhan**, the Hon'ble Union Minister for Education (in the picture: center) led the Conference. **Prof. Shireesh Kedare**, Director of IIT Bombay (in the picture: second from right), along with leading academicians and policymakers, attended the event. The conference, held during 3rd-4th March, 2025, saw deliberations on policies, advancements and challenges in the education sector. As the Visitor, the President oversees 184 Central Institutes of Higher Education.

## IIT Bombay Celebrates 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 (B.Tech., Department of Metallurgical Engineering and Materials Science, 1991);

**Ms. Girija Ram**, Entrepreneur (M.Sc., Department of Chemistry, 1980); **Ms. Ahana Gautam**, Industry Professional (B.Tech., Department of Chemical Engineering, 2010) and

**Ms. Zenobia Driver**, Consultant (M.Sc., Department of Chemistry, 1998). They shared their experiences and insights on overcoming obstacles in their respective fields.



Director Prof. Shireesh Kedare and other Institute functionaries attended women's day celebration



As Ms. Damini Kumari, former TV presenter and Leadership Coach aptly put it, *"The biggest roadblock is often the one we create for ourselves. Believe in yourself, take the leap and watch the world open up!"*

The Institute also recognized women colleagues who are superannuating in 2025, honoring their dedication and commitment.

Esteemed Institute women alumnae during the panel discussion



Women colleagues of IIT Bombay superannuating in 2025 along with Director Prof. Shireesh Kedare (center) and other Institute functionaries during Women's Day celebration

## IIT Bombay Showcases R&D Excellence At InvenTiv 2025

An IIT Bombay delegation led by Director **Prof. Shireesh Kedare**, participated in **InvenTiv 2025**, a major R&D fair where all IITs, NITs, IISERs and the top 50 ranked NIRF institutions in the country showcased their research and development activities. The event was held at IIT Madras in Chennai during 28th February - 1st March, 2025.

**Dr. Sukanta Majumdar**, the Hon'ble Minister of State for Education inaugurated the fair which was attended by academicians, entrepreneurs and industry leaders.

IIT Bombay exhibited following six projects highlighting technologies of national and societal importance across various domains, including aviation, space, defense, AI/ML, advanced manufacturing, circularity and sustainability, smart city and infrastructure, and marine technology:



*Prof. Shireesh Kedare, Director of IIT Bombay, explores the exhibit of Prof. V. Jothiprakash, Department of Civil Engineering, during InvenTiv 2025*

1. **Portable Magnetometer Using Diamond Color Defects** by Prof. Kasturi Saha, Department of Electrical Engineering
2. **Thin Temperature Shielding, Sound Insulating and Corrosion Resistant Coatings** by Prof. Smrutiranjana Parida, Department of Metallurgical Engineering and Materials Science
3. **AI Tool for Oral Reading Fluency Assessment** by Prof. Preeti Rao Department of Electrical Engineering
4. **Spanda 1: India's First 3D SLA Micro-printer** by Prof. Prasanna Gandhi, Department of Mechanical Engineering
5. **A System for Removing Floating Debris in Open Water Channels** by Prof. V. Jothiprakash, Department of Civil Engineering
6. **Tow-fish for Pipeline Inspection** by Prof. Leena Vachhani, Centre for Systems and Control Engineering

Prominent figures, including **Prof. Kamakoti Veezhinathan**, Director of IIT Madras and **Mr. Anil Sharma**, Head of Corporate Incubation at TCS, visited our exhibits.



*Prof. V. Kamakoti, Director of IIT Madras visited the exhibit of Prof. Kasturi Saha, Department of Electrical Engineering, IIT Bombay during InvenTiv 2025*

## IIT Bombay Hosts ICONS 2025

IIT Bombay successfully hosted **ICONS 2025**, a two-day workshop on Defence Technologies, during 28th February – 1st March under the theme '**Better and Faster Tech for Defence**'. The event, conducted as part of **National Science Day 2025**, brought together distinguished **experts** from the armed forces, industry and academia to explore cutting-edge advancements shaping the future of defence.

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.



(Retd.) General Manoj C. Pande, former Chief of the Army Staff, addressing the audience

The keynote sessions included thought-provoking insights from **Air Vice Marshal Dhananjay V. Khot**, AVSM, VM (Retd.) who discussed military readiness for next-generation warfare and **Mr. Neelesh Tungar**, Whole-Time Director and CEO of Kalyani Strategic Systems, who emphasized aligning innovation with defence strategies.



(Retd.) Air Chief Marshal Vivek R. Chaudhari, former Chief of the Air Staff, addressing the audience

**Prof. Milind D. Atrey**, Deputy Director (Academics, Research and Translation), IIT Bombay, highlighted the Institute's robust innovation and translational research ecosystem.

The session on high-performance materials for defence applications explored advanced propellants, high-energy density materials, ceramics and machine-learning-driven propellant formulations while the session on digital technologies in military operations delved into AI-driven intelligence gathering, cybersecurity, cognitive warfare and drone-based intelligence. Experts also provided valuable insights on smart defence and logistics, focusing on IoT-driven smart assets, AI-powered maintenance and digital twin technology for aviation and defence applications.

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.



### IIT Bombay Celebrates Industry Day

IIT Bombay’s **Industrial Research and Consultancy Centre (IRCC)** conducted **Industry Day** on **Connected and Autonomous Vehicles (CAV)** on 15th February, 2025. This event brought together leaders from the automotive, telecommunications, intelligent transportation sectors and academic pioneers to collectively explore the future of mobility.

**Prof. Archak Mittal**, Department of Civil Engineering, IIT Bombay led the discussions which contributed to identifying actionable priorities for scalable, affordable and India-centric CAV technologies.

**Mr. Prashant Jagannath Fegde**, Regional Officer, National Highways Authority of India (NHA), Ministry of Road, Transport and Highways (**MoRTH**), Government of India (GoI) was the Chief Guest for this event. His experience further enriched the discussions in guiding the vision for India’s future in mobility.



Prof. Sachin Patwardhan, Dean (Research and Development), IIT Bombay felicitating Mr. Prashant Jagannath Fegde, Regional Officer, NHA, MoRTH, GoI



Various industry experts during Industry Day held at IIT Bombay

### IIT Bombay Participates In PIWOT 2025

The **Office of Dean (Research and Development), IIT Bombay** showcased its innovative ideas and products at the prestigious **PANIIT World of Technology (PIWOT) 2025** event held in January 2025. This platform provided IIT Bombay an opportunity to connect with global experts, industry leaders, alumni and policymakers, fostering collaborations and sharing knowledge. The showcase reflected the Institute’s commitment to solving real-world challenges and driving technological advancements for a better future.



Exhibitions by IIT Bombay R&D  
PIWOT 2025  
PAN IIT World Of Technology



Exhibitions by IIT Bombay R&D  
PIWOT 2025  
PAN IIT World Of Technology



Exhibitions by IIT Bombay R&D  
PIWOT 2025  
PAN IIT World Of Technology

Various IIT Bombay exhibits at PIWOT 2025

## Groundbreaking Ceremony Of The Academic Science Block 1 (ASB-1) At IIT Bombay

In alignment with its vision for growth, excellence and the development of a robust infrastructure, the Indian Institute of Technology Bombay conducted a **groundbreaking ceremony for the Academic Science Block 1 (ASB-1)** on 21st January, 2025. This new facility comprises a basement, a ground floor and ten upper floors that will house both the Department of Chemistry and the Department of Chemical Engineering. The design includes state-of-the-art research laboratories equipped with advanced instrumentation, thereby facilitating world-class research capabilities within these departments.



Prof. Shireesh Kedare, Director of IIT Bombay (sixth from left) along with Institute functionaries during ASB-1 groundbreaking ceremony

Notable attendees at the ceremony included **Prof. Shireesh Kedare**, Director of IIT Bombay; **Prof. K.V. Krishna Rao**, Deputy Director (Finance, Infrastructure and Administration (FIA)); **Prof. Mahesh Tirumkudulu**, Head, Department of Chemical Engineering and **Prof. Ruchi Anand**, Head, Department of Chemistry. Additionally, the event was graced by functionaries, faculty members, students and other esteemed guests.

Former Directors **Prof. Devang Khakhar** and **Prof. Subhasis Chaudhuri** also graced the occasion. This event marks the official commencement of the ASB-1 project and emphasizes the collective commitment of the Office of Dean (Infrastructure Planning and Support) to foster growth and excellence, thereby reinforcing IIT Bombay's dedication to maintaining a strong infrastructural foundation.

## Inauguration Of 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 (FIA), **Prof. P. Vedagiri**, Dean (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.

### Inauguration Of 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.

### IIT Bombay Inaugurates A New Playground



On 12th February, 2025, Director **Prof. Shireesh B. Kedare** officially dedicated a new playground for campus residents. The playground is located near the former Hostel 7, adjacent to Hostel 17. It 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.

## IIT Bombay Inaugurates New Food Court



**Prof. Shireesh Kedare**, Director of IIT Bombay inaugurated a brand new food court at the Lecture Hall Complex (LHC) on 24th February, 2025.

**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.

The new food court offers a variety of delicious and affordable meal options. The perfect spot for students and faculty to grab a quick bite between lectures, this food court offers a variety of savory snacks and refreshing beverages for guests to choose from. With ample seating and a vibrant atmosphere, it has become a favourite hangout spot on campus. Whether you need a quick coffee, a wholesome meal or just a place to unwind, this is the place to be.

## Inauguration Of 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.

## DSSE Hosts Symposium On Entrepreneurship Celebrating 11th Anniversary



Ms. Neerja Sethi and Mr. Bharat Desai launch the new DSSE building

On 31st January, 2025, the **Desai Sethi School of Entrepreneurship (DSSE)** at IIT Bombay hosted a day-long symposium titled **“Catalyzing University Entrepreneurship”**, focusing on the role of academic institutions in driving innovation and fostering entrepreneurship.

DSSE, a pioneering entrepreneurship school, has been training aspiring entrepreneurs through academic and pre-incubation programs and building the talent pipeline for the nation. Since its inception, DSSE’s entrepreneurship courses have benefited more than 4,300 students. Over 950 students have been mentored by the faculty and alumni, close to 340 venture teams formed and over 100 startups registered by DSSE students.

The new and upcoming DSSE building (spread over 1,15,000 sq. ft.) in the IIT Bombay campus will serve as a hub for students at every stage of their entrepreneurial journeys - from undergraduates to

PhDs. It includes space for alumni, faculty members and staff. Set to become operational later this year, it will feature a state-of-the-art Makerspace designed to nurture the next generation of entrepreneurs and startup technologies, alongside key spaces like Design Thinking Studio, Co-working Labs, Thematic Labs, Tinkerers’ Lab, Proof-of-Concept Lab and Manufacturing/ Heavy Equipment Labs.

**Mr. Bharat Desai** shared “IIT Bombay has the expertise and the convening power to bring together the best minds in entrepreneurship and innovation. The new building will cater to the educational and research needs of the IIT Bombay community and foster extensive community connections to the business industry. Our hope is that the building is bustling with student activity, mentorship and research, where the ‘lab to market’ concept truly takes shape and helps grow commercialization”.

The symposium included a keynote address by **Dr. Abhay Jere**, Vice-Chairman of the All India Council for Technical Education (AICTE) and Chief Innovation Officer, Ministry of Education, Government of India on **“Vision for Innovation & Entrepreneurship”**. The event also featured topics on *Entrepreneurship Education & Research and Programs & Policies: Translational Research & Commercialization*, with distinguished thought leaders from government, academia and industry, along with entrepreneurs, investors and incubators, gathered to discuss best practices and strategies for creating an ecosystem that encourages startup ventures.



(From L- R): Prof. Ravindra Gudi, Dean (Alumni and Corporate Relations), IIT Bombay; Dr. Abhay Jere, Vice-Chairman, AICTE; Mr. Bharat Desai, Co-founder, Syntel and Chairman – DS Advisors and Prof. Rishikesh Krishna, Director, Indian Institute of Management (IIM) Bengaluru participated in a fireside chat during the DSSE symposium



Ms. Neerja Sethi (center) and Mr. Bharat Desai (second from center) along with IIT Bombay functionaries during the launch of new DSSE building

## Tripartite MoU To Develop Customized Power Semiconductor Products



Prof. Sachin Patwardhan, Dean (Research and Development), IIT Bombay (fourth from left) and Ms. Ponni Carlin, Chief Operating Officer, iVP Semiconductor (center) during signing of the MoU

In a significant step towards advancing power semiconductor device technology in India, **SemiX - IIT Bombay, IIT Bhubaneswar and iVP Semiconductor** signed a Memorandum of Understanding (MoU) on 23rd January, 2025. This marks the beginning of a groundbreaking project aiming to design and develop highly customized silicon power MOSFETs for EV and other applications.

The project will leverage the combined expertise of two premier academic institutions and a leading industry innovator. IIT Bombay and IIT Bhubaneswar bring their research capabilities and academic excellence, while iVP Semiconductor contributes its cutting-edge industry experience and insight. Together, the team will focus on product definition, design optimization, device layout and device characterisation.

*“iVP is proud to collaborate with India’s leading academic institutions to translate advanced research into high-impact, market-ready power semiconductor solutions. By combining cutting-edge innovation with practical, scalable design, we aim to develop products that drive value for both India and global markets,”* said **Ms. Ponni Carlin**, COO, iVP Semiconductor.

This project focuses on optimizing power device performance for a range of applications. It will facilitate the development of customized solutions that address the increasing demands for advanced power electronics across various sectors, including automotive, renewable energy, industrial automation and consumer electronics.

*“This collaboration represents a milestone for the Indian semiconductor R&D ecosystem. We expect that the combination of academic ingenuity and industry expertise here will lead to the indigenous development of market leading power devices,”* said **Prof. Shreepad Karmalkar**, Director, IIT Bhubaneswar.

*“IIT Bombay through its semiconductor Centre, SemiX, is pleased to collaborate with iVP Semiconductor and IIT Bhubaneswar to drive the development of power semiconductor solutions in India,”* said **Prof. Sachin Patwardhan**, Dean (Research and Development), IIT Bombay.

## Tripartite MoU To Establish Fellowship Programme



The **Geospatial Information Science and Engineering (GISE) Hub at IIT Bombay** signed a Memorandum of Understanding (MoU) with **Confluence The SANGAM Foundation and Maharashtra University of Health Sciences (MUHS)** on 24th January, 2025. This initiative is supported by the **India Takemi Fellows** and aims to establish the **Applied Public Health Practice Fellowship Program**.

Hosted at both IIT Bombay and MUHS, the fellowship program will empower Fellows with advanced skills in health systems research, innovation and evidence-based policymaking. It will also promote interdisciplinary mentorship and facilitate impactful collaborations

across institutions and regions. This partnership highlights a shared commitment to strengthening health systems and fostering enduring connections for a healthier future.

The Tripartite MoU was signed by **Prof. Sachin Patwardhan**, Dean (Research and Development), IIT Bombay; **Mr. Ameya Pratap Singh**, Director (Research and Development), Confluence The SANGAM Foundation and **Dr. Rajendra Shivaji Bangal**, Registrar of MUHS.

The signing ceremony was attended by **Ms. Sujata Saunik**, Hon’ble Chief Secretary of the Government of Maharashtra; **Prof. Shireesh Kedare**, Director of IIT Bombay; Hon’ble **Lt. Gen. Madhuri Kanitkar (Retd.)**, PVSM, AVSM, VSM, Vice-Chancellor of MUHS; **Prof. Milind Atrey**, Deputy Director (Academics, Research and Translation) and **Prof. K.V. Krishna Rao**, Deputy Director (Finance, Infrastructure and Administration) at IIT Bombay. Also present were **Prof. P. Vedagiri**, Dean (Infrastructure Planning and Support) and **Prof. Sarthak Gaurav** from the Shailesh J. Mehta School of Management.

## Social Fest 2025: A Celebration Of Inspiring Change

The **Social Fest 2025**, organized by **Abhyuday IIT Bombay**, was a remarkable celebration of innovation, service and learning, held during 11th-12th January, 2025. This year's theme, "**Advitya - A Prism of Possibilities**," brought together over 10,000 students from across the country to engage in an event filled with inspiration and collaboration. The Fest became a vibrant hub for students, schools and organizations, highlighting the power of unity in driving social change.

Students actively participated in various activities, including workshops on Cancer Biology and Stem Cell Technology, which empowered attendees with cutting-edge knowledge. The NGO Mela added to the Fest's impact by creating meaningful connections between corporate social responsibility (CSR) heads and non-governmental organizations (NGOs), paving the way for impactful collaborations.



Career Counselling Session for school children



One of the standout moments of the Fest was the achievement of preparing and distributing 2,617 sandwiches across Mumbai. This act not only symbolized the collective effort of the students but also showcased their dedication to addressing social challenges through meaningful action. Another notable feature of the Fest was the array of competitions, including **Action Plan**, which encouraged ideas for social entrepreneurship; **Mock Parliament**, a debate competition that stimulated critical thinking; and the **Socio-Hackathon**, where students developed tech-based solutions for societal problems. The **Olympiad OASIS**, based on the 17 Sustainable Development Goals (SDGs), inspired participants to channel their creativity toward global challenges.

Other notable highlights featured powerful campaigns, including a **Powai Lake clean-up**, a **free health check-up** that provided medical assistance to over 2,000 individuals, including students and staff; and a **career counselling session** that helped more than 1,000 students explore various career paths, equipping them with valuable knowledge for their future.



The spotlight of the Fest was '**The Visionary Voices**' event, where renowned speakers such as **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, shared their wisdom and experiences. Their talks left a lasting impression on the audience, inspiring them to strive for excellence in their endeavours.

The Social Fest 2025 concluded with a reinforcement of the mission of Abhyuday IIT Bombay to drive positive societal change and the journey towards a brighter, more inclusive future.

## Celebrating Languages, Celebrating Diversity



IIT Bombay celebrated the International Mother Language Day on 21st February, 2025 to promote the use of mother tongue in the Institute. On this occasion, various programmes were organized to preserve the linguistic diversity of our country.

**Prof. Nand Kishore**, Dean (Administrative Affairs) was the Chief Guest on the occasion.



## E-Summit '25 – A Grand Celebration Of Entrepreneurship

The **Entrepreneurship Cell at IIT Bombay** successfully hosted the 20th edition of one of Asia's largest business conclaves, '**E-Summit '25 – Pursuit of Eminence**,' during 1st - 2nd February, 2025.

This landmark event brought together visionary leaders, disruptive founders, investors and aspiring entrepreneurs under one roof. With over 50,000 attendees, the summit featured high-impact competitions, thought-provoking discussions and unparalleled networking opportunities.

### Event Highlights:

- **The Ten Minute Million (TTMM):** The electrifying atmosphere of TTMM allowed startup founders to pitch their ideas to investors in just 10 minutes. This year witnessed a record-breaking bid of INR 3.3 crores for Zenma, the highest amount in the 11-year history of TTMM!
- **Speaker Sessions:** The event showcased more than 120 esteemed speakers, including Nandan Nilekani, Anupam Mittal, Sonam Wangchuk, Raj Shamani and Gaurav Chaudhary (Technical Guruji), who shared valuable insights on business, technology and innovation.
- **Startup Expo:** This platform allowed startups to present their products to a large audience of entrepreneurs, investors and corporate leaders, facilitating valuable collaborations.
- **Seed Stars:** This initiative connected startups with potential investors and mentors, unlocking numerous funding opportunities.
- **Entre-MUN:** A dynamic Model United Nations forum where students debated global issues, enhancing their leadership and diplomatic skills.
- **Workshops and Competitions:** From Android Development and Ethical



Guest Speaker Sonam Wangchuk during speaker sessions at E-Summit '25

Hacking to Marketing Analytics, attendees participated in various interactive sessions and competitions, including IPL Auction, Bid-n-Build, Fish Tank, Corporate Duel, Squid Games, Ace the Case and Pursuit of Eminence, competing for prize money of up to INR 1 lakh.

- **Internship and Job Fair (IJF):** This provided students with a unique opportunity to secure internships and full-time positions at top startups and corporations.

The E-Summit '25 achieved a historic milestone by being featured on the iconic Times Square billboard for the second time, following its appearance at Nasdaq Tower. This recognition highlighted its impact on the global stage. The event also garnered significant media attention, receiving coverage on leading news channels such as India Today and NDTV 24x7 and was featured in major newspapers. This recognition underscores E-Summit's role in shaping the entrepreneurial landscape in India.

The two-day extravaganza left a lasting impact on the entrepreneurial ecosystem in India, inspiring the next wave of game-changers, innovators and disruptors.



## CEO Of DEDC Mr. Hadi Badri Visits IIT Bombay



Mr. Hadi Badri, CEO of DEDC (third from right) along with IIT Bombay functionaries during his visit to IIT Bombay

Mr. Hadi Badri, CEO of the Dubai Economic Development Corporation (DED), visited IIT Bombay on the 16th January, 2025. During his visit, he met IIT Bombay functionaries including **Prof. Shireesh Kedare**, Director; **Prof. K.P. Kaliappan**, Dean (Strategy); **Prof. Sachin Patwardhan**, Dean (Research and Development) and **Prof. S.V.D. Nageswara Rao**, Head, Shailesh J. Mehta School of Management to discuss potential short-term and long-term collaborations aimed at developing mutual relationships.

Mr. Badri also toured Society for Innovation and Entrepreneurship (SINE) and Technology Innovation Hub (TIH), highlighting the Institute's leadership in start-up incubation and tech development.

## Senior Delegation From The University Of Sheffield Visits IIT Bombay



Prof. Shireesh Kedare, IIT Bombay Director and Prof. Koen Lamberts, President (UoS), UK exchange greetings

On 30th January, 2025, a distinguished delegation led by **Prof. Koen Lamberts**, President of the **University of Sheffield (UoS), UK**, visited IIT Bombay. The delegation engaged in a productive and insightful discussion with the IIT Bombay leadership team, including **Prof. Shireesh Kedare**, Director; **Prof. Milind Atrey**, Deputy Director (Academics, Research and Translation); **Prof. K.V. Krishna Rao**, Deputy Director (Finance, Infrastructure and Administration) and **Prof. Sudarshan Kumar**, Dean (International Relations).

The University of Sheffield is a significant potential partner of IIT Bombay, with established agreements and numerous ongoing collaborations across departments, including Energy Science and Engineering, Chemistry and administrative and academic staff exchanges.

During the discussions, both institutions focused on further strengthening their partnership. Key areas of engagement included exploring dual-degree programs at the PhD and Master's levels, enhancing joint research collaborations across various disciplines and organizing summer schools to promote academic exchange.

The delegation also participated in a research workshop with faculty members from the departments of Energy Science and Technology and Electrical Engineering on 31st January, 2025. The workshop focused on Power Electronics, Energy Storage & Conversion and Process Engineering Modelling & Simulations. It aimed to explore opportunities to enhance existing collaborations, ultimately strengthening student and faculty mobility.

## German Minister Of Science Petra Olschowski Visits IIT Bombay



On 8th February, 2025, a delegation led by **Ms. Petra Olschowski**, Minister for Science, Research and Art, State of *Baden-Württemberg, Germany* visited IIT Bombay. 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 Memorandum of Understanding (MoU) was signed with Stuttgart Technical University of Applied Sciences to promote institutional collaboration and student exchange. Additionally, IIT Bombay faculty engaged with the delegation to explore opportunities for future collaborations.

## Inauguration Of The Prof. R. S. Ayyar Conference Room



(From L-R): Prof. K.V. Krishna Rao, Deputy Director (FIA); Prof. Shireesh Kedare, Director, Mrs. Parvathy Ayyar (wife of late Prof. R. S. Ayyar); Ms. Jayashree Subrahmonia (daughter) and Prof. Milind Atrey, Deputy Director (ART) during unveiling of the plaque

The Indian Institute of Technology Bombay inaugurated the "**Prof. R. S. Ayyar Conference Room**" at the Department of Civil Engineering on 3rd February, 2025.

**Mrs. Parvathy Ayyar** and **Ms. Jayashree Subrahmonia**, the wife and younger daughter of the late Prof. R. S. Ayyar, cut the ribbon and unveiled the plaque, officially inaugurating the conference room. The event was attended by **Prof. Shireesh Kedare**, Director of IIT Bombay; **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)); and **Prof. Ravindra Gudi**, Dean (Alumni and Corporate Relations (ACR)). It was also attended by **Prof. Tom Mathew**, Head of the Department of Civil Engineering, along with students, faculty and staff members.

In addition, a sapling of the **Bakul Tree (*Mimusops elengi*)** was planted at the Civil Engineering Lawn on 3rd January, 2025. This significant occasion was conducted by alumna **Mrs. Ranjani Saigal** (B.Tech., Civil Engineering, 1981), the elder daughter of the late Prof. R. S. Ayyar. The tree was planted in memory of Prof. Ayyar, who held the position of Head of the Department of Civil Engineering during 1979 to 1982 and subsequently served as Dean of Academic Programmes during 1982 to 1985 at IIT Bombay.



The Memorandum of Understanding (MoU) for this event was signed on 5th May, 2022, through an online event attended by former IIT Bombay Director **Prof. Subhasis Chaudhuri**; **Prof. Deepankar Choudhury**, former Head, Department of Civil Engineering; **Prof. Ravindra Gudi**, Dean (ACR); family members of the late Prof. R. S. Ayyar, including **Ms. Ranjani Saigal**, his elder daughter and an alumna of IIT Bombay (Civil Engineering); as well as several former students of Prof. R. S. Ayyar.

## IIT Bombay Receives Landmark \$11 Million Pledge From Alumni Couple To Advance Women In STEM, Infrastructure Development And Semiconductor Research



Alumni couple (center) Mr. Jitendra Mohan and Ms. Swapna Samant pledge USD 11 Million supporting women in STEM

In a historic act of generosity, IIT Bombay alumni couple, **Mr. Jitendra Mohan** (B.Tech., Electrical Engineering, 1994, Hostel 9) and **Ms. Swapna Samant** (B.Tech., Civil Engineering, 1995, Hostel 10) **have pledged \$11 million to their alma mater.** A gift of this magnitude and impact highlights the exceptional bond between IIT Bombay and its alumni and reaffirms the transformative impact of philanthropy on education, innovation and nation-building.

The donation will spearhead several critical initiatives that align with IIT Bombay's vision for growth and excellence. In a remarkable gesture of paying it forward in a domain where Mr. Mohan has achieved extraordinary success, this donation will play a pivotal role in advancing IIT Bombay's leadership in semiconductor technology. **SemiX Research**, a cutting-edge initiative, is poised to drive innovation, fuel industrial growth and solidify India's standing as a global leader in this crucial field.

A key focus of their contribution is the **Smt. Vidya Sharma Chair Professorship in Electrical Engineering**, which is dedicated to supporting women faculty members in STEM. This initiative reflects the donors' steadfast commitment to gender inclusivity in academia and their aspiration to foster an environment where women scientists and researchers can thrive.

Finally, their generosity will also enable the redevelopment of Hostel 9. This initiative is deeply personal to Mr. Mohan, who was a proud resident of Hostel 9 during his time at IIT Bombay and where he forged lifelong friendships. Revitalizing the Institute's

infrastructure will offer future generations of students the same sense of belonging and camaraderie while modernizing the facilities to meet contemporary needs will preserve its legacy of being a cherished 'home away from home'.

Reflecting on their journey and motivations for this remarkable gesture, **Mr. Mohan and Ms. Samant** shared, "IIT Bombay shaped us during some of the most important years of our life, providing us with a strong foundation for long-term professional success. At IIT Bombay, we made amazing lifelong friends—many of whom are an integral part of our lives to this day. We are grateful for all that we got from IIT Bombay and are honoured to give back and contribute towards academic opportunities and student well-being".

**Prof. Shireesh Kedare**, Director of IIT Bombay, expressed his heartfelt appreciation, stating, "This unparalleled act of generosity by Mr. Jitendra Mohan and Ms. Swapna Samant exemplifies the profound impact of alumni engagement on the Institute's journey of excellence. Their contribution strengthens IIT Bombay's standing as a hub of innovation and inclusivity, reflecting the transformative power of giving back. We are profoundly grateful for their trust in IIT Bombay's vision and for their inspiring commitment to advancing societal progress and nation-building".

Alumni philanthropy continues to build IIT Bombay's legacy of innovation and empower future generations by championing forward-looking initiatives, towards a more equitable future.

## Inauguration Of P.G. Bhagwat Automotive Clay Studio

On 29th January, 2025, IIT Bombay inaugurated the ‘**P.G. Bhagwat Automotive Clay Studio**,’ a pioneering facility dedicated by alumnus **Mr. Dilip Bhagwat** (B.Tech., Aerospace Engineering, 1971) in memory of his father, the late P.G. Bhagwat.

This state-of-the-art studio is the first-of-its-kind in any academic institution in India. It aims to empower students and faculty to design and develop innovative, futuristic and sustainable mobility solutions, blending creativity with cutting-edge technology.

Serving as a collaborative hub, the studio will provide opportunities for engagement with emerging electric vehicle startups in India. This initiative is expected to have a transformative impact on the next generation of designers and engineers at IIT Bombay, reducing lead time and fostering world-class excellence in automotive design engineering.

The studio was conceptualized by **Prof. Nishant Sharma**, Ramakrishna Bajaj Chair Professor and successfully executed by Prof. Nishant Sharma and **Prof. Unni Mohan M** from the IDC School of Design (IDC SoD) at IIT Bombay. Key Institute functionaries and family members of Mr. Bhagwat attended the inaugural function. The Institute extends its gratitude to Mr. Bhagwat for his significant contribution.



(From L-R): Prof. Shireesh Kedare, Director, IIT Bombay; Alumnus Mr. Dilip Bhagwat; Prof. K.V. Krishna Rao, Deputy Director (FIA); Prof. P. Vedagiri, Dean (IPS) and Prof. Nishant Sharma, IDC SoD during the inaugural function

## Students Attend ‘Pariksha Pe Charcha’ 2025

The students of **PM SHRI Kendriya Vidyalaya (KV)** and **IIT Campus School & Jr. College** at the Institute attended the 8th edition of ‘**Pariksha Pe Charcha**’ on 10th February, 2025. About 200 students from both schools participated in the programme held at P.C. Saxena Auditorium.

The Hon’ble Prime Minister of India **Shri Narendra Modi** engaged with students, offering invaluable insights on exam preparation, stress management and holistic learning—



School students during ‘Pariksha Pe Charcha 2025’ quiz competition organised by PM SHRI KV IIT Bombay

equipping them with life lessons and practical strategies for success. The students found the session insightful and it helped alleviate their exam-related anxieties.

PM SHRI Kendriya Vidyalaya, IIT Powai, organized a **quiz competition on Pariksha Pe Charcha** on 23rd January, known as Parakram Diwas, based on the special Krish Trish and Balti boy (KTB) series ‘**Bharat Hain Hum**’, celebrating patriotism, courage and freedom.

## IIT Bombay Observes 54th National Safety Week



Prof. K.V. Krishna Rao, Deputy Director (FIA) felicitating Mr. V. M. Mainkar (DFO, MFB) (left) and Dr. D. M. Patil (ADFO, MFB) (right)

The **54th National Safety Week** (4th–10th March, 2025) was inaugurated at IIT Bombay on **National Safety Day**, 4th March, at the PC Saxena Auditorium, with the theme **“Safety and Well-Being Crucial for Viksit Bharat”**.

The National Safety Day is observed annually in India to promote workplace safety, health and environmental awareness. It marks the foundation day of the National Safety Council (NSC) of India, which was established in 1966 by the Ministry of Labour and Employment, Government of India.

The programme began with a safety pledge by **Mr. Amit Kumar**, Technical Officer, Fire and Safety Section, Office of Dean (IPS). The pledge was followed by opening remarks from **Prof. Prakash Nanthagopalan**, new Associate Dean-III (Infrastructure Planning and Support (IPS)) and a welcome address by **Prof. K.V. Krishna Rao**, Deputy Director (Finance, Infrastructure and Administration (FIA)).

Expert talks on fire safety were delivered by **Mr. V. M. Mainkar** (Divisional Fire Officer (DFO), Mumbai Fire

Brigade (MFB)) and **Dr. D. M. Patil** (Assistant Divisional Fire Officer (ADFO), Mumbai Fire Brigade) while **Mr. Raj Kumar Paul** (AVP & EHS Head, Tata Projects) spoke on construction safety.

Appreciation certificates were distributed to Section offices including Security-Quick Response Team (QRT), Estate Office, Electrical Maintenance Division, Design Cell, Public Health Office and new construction contractors for their loss time free working for their continued support.

Furthermore, the Fire and Safety Section, Office of Dean IPS also organised a special defensive driving training session on 10th March, 2025. The session equipped the participants with essential skills to navigate campus roads safely, anticipate potential hazards and enhance driving discipline.

Throughout the week (4-10th March), various activities such as safety walks, fire drills, training sessions and awareness drives were conducted. The event concluded with the poster competition awards and closing ceremony on 10th March.

## 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.

## IIT Bombay Hosts 4-Day Training Programme On “Aiming World Class University Administration”



A training programme on “**Aiming World Class University Administration**” was organized by the **Administrative Training Centre, IIT Bombay (ATC-IITB)** during 1st-4th March, 2025. The participants in this programme were officers and staff from IIT Indore, IIT Gandhinagar, IIT Bhilai, IIT Mandi, IIT Delhi, IIT Madras, IIT Goa, IIT Hyderabad, IIT Bombay, BITS Pilani, National Sports University Imphal and National Forensic Science University, Gandhinagar. ATC-IITB has been set up to offer world-class training programmes for officers and staff of HEIs.

### The topics covered in this programme were:

- (i) Understanding institutions as a system
- (ii) Strategies for improving efficiency in administration using IT
- (iii) Leadership in 21st century
- (iv) Effective governance and management in HEIs
- (v) Infrastructure administration
- (vi) Managing student affairs
- (vii) Teamwork and roadmapping
- (viii) Collective excellence and individual excellence
- (ix) Effective management for finance, infrastructure and administration in HEIs
- (x) Innovation for excellence
- (xi) Managing stress at work
- (xii) Administrative practices that make difference
- (xiii) Self-Leadership: The foundation of personal and professional effectiveness

- (xiii) IIT Bombay’s research innovation and translational ecosystem
- (xiv) POSH law and legal awareness
- (xv) RTIs in HEIs

The speakers for the programme from IIT Bombay included **Prof. Shireesh Kedare**, Director; Padma Shri **Prof. D. B. Phatak**, former Chairman, Board of Governors, IIT Indore; **Prof. Subhasis Chaudhuri**, former Director; **Prof. P. Seshu**, Department of Mechanical Engineering and former Director of IIT Dharwad; **Prof. K.V.Krishna Rao**, Deputy Director (Finance, Infrastructure and Administration); **Prof. Milind Atrey**, Deputy Director (Academics, Research and Translation); **Prof. Nand Kishore**, Dean (Administrative Affairs); **Prof. Suryanarayana Doolia**, Dean (Students Affairs); **Prof. P. Vedagiri**, Dean (Infrastructure Planning and Support); **Prof. Ashish Pandey**, Shailesh J. Mehta School of Management and **Mr. Ganesh Bhorkade**, Registrar.

The external expert speakers included **Dr. Jahnavi Kedare**, Professor, Department of Psychiatry, T. N. Medical College, B. Y. L. Nair Ch. Hospital Mumbai; **Mr. Ravi Kant**, former Chairman of IIIT Allahabad and IIM Rohtak and former Vice Chairman of Tata Motors; **Ms. Shilpa Bhatia**, Advocate, Bombay High Court and **Lt. Cdr Nisha Singh (Retd)**, Chief Administrative Officer, Indian Institute of Management (IIM) Mumbai.

ATC-IITB will soon be announcing a 3-day training programme on “**Sophisticated Laboratory Management**” and a 5-day training program on “Aiming World Class University administration” in HEIs.

## IIT Bombay Celebrates World Hindi Day

On the occasion of **World Hindi Day**, the Institute organized a special Hindi lecture titled **“Linguistics: An Educational Discourse”** and 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 first session featured an insightful lecture on linguistics by Chief Guest **Dr. Krishna Kumar Mishra**, Associate Professor, Homi Bhabha Center for Science Education. He discussed various aspects of linguistics, including the structure and development of Hindi, its global expansion and its increasing significance in the technical field.

In the second session, a discussion centered around the Hindi book “Agni Ki Udaan” was held. The panel for this book discussion included **Dr. Krishna Kumar Mishra** and several IIT Bombay functionaries, including **Prof. Nand Kishore** (Dean, Administrative Affairs (AA)); **Prof. S.V. Kulkarni** (former Dean AA); **Mr. Ganesh Bhorkade**, Registrar; **Mr. Ajay Prasad** (Deputy Registrar, Accounts Section); **Ms. Valsala Kumari** (Principal, IIT Powai Campus School & 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).

Through his autobiography, Dr. A.P.J. Abdul Kalam offers a profound glimpse into his childhood, struggles, achievements and the most challenging moments of his life. He emphasizes that success is achieved only through hard work, effort and self-confidence. The panel members elaborated on various chapters of the book, highlighting Dr. Kalam’s life principles, his relentless pursuit of dreams and his unwavering dedication.

The event drew a significant participation from students of Campus School and PM SHRI Kendriya Vidyalaya, IIT Powai as well as campus residents, reflecting a growing awareness and interest in the Hindi language and literature. The event concluded with a vote of thanks by **Ms. Vaishali Bahulkar**, Hindi Officer.



Chief Guest Dr. Krishna Kumar Mishra speaking on World Hindi Day

## IEOR Day 2025

The **Department of Industrial Engineering and Operations Research (IEOR)** at IIT Bombay hosted **IEOR Day 2025** during 8th-9th March, 2025.

The two-day event featured expert talks, hands-on workshops and panel discussions on various topics including Operations Research, Artificial Intelligence, Machine Learning, Supply Chain Optimization and its impact on real-world challenges. The event brought together leading academicians, industry experts and students, offering a dynamic platform for knowledge exchange, networking and collaboration.



Guests **Abhishek Roy** (Ex Principal Data Scientist, Locus.sh); **Vishnu Subash** (Deloitte, Partner); **Vinit Rongata** (Meesho, Senior Manager - Data Science) and **Diwakar Pathak** (Ericsson, SPM & Portfolio Lead, Data & Analytics) during the panel discussion

## Research in focus

*Combining hydrogen-based processes with advanced catalysts and renewable energy paves the way for developing economically and industrially viable solutions to decarbonise the steel industry*

Globally, steel is a vital component of modern infrastructure and economic progress. India is among the top producers of steel. However, steel production is closely linked to environmental concerns as it relies heavily on coal as a fuel. In the steel production process, carbon (primarily sourced from coal and natural gas) reacts with iron ore to produce molten iron, which is then refined to create steel. However, this process also generates vast amounts of carbon dioxide (CO<sub>2</sub>). As a result, the steel industry globally emits over 3.7 billion metric tons of CO<sub>2</sub> every year, contributing to 7–9% of carbon emissions. Steel production can be made sustainable by adopting a method called hydrogen-based direct reduction of iron (H-DRI).

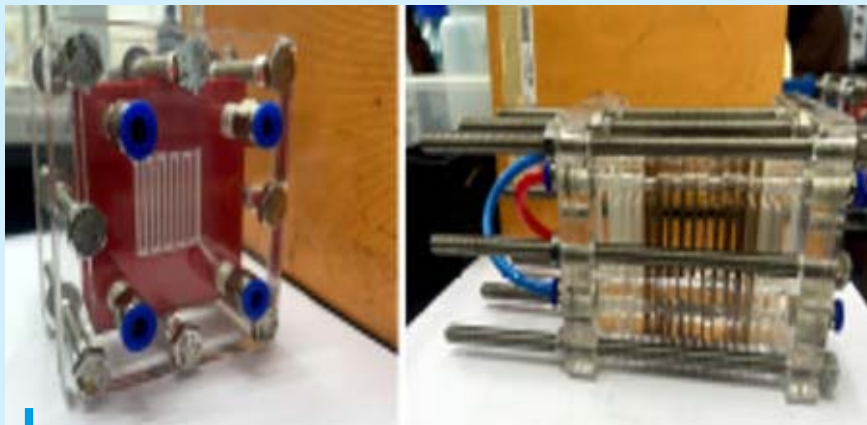
In a recent review published in the *Journal of Energy and Climate Change*, researchers from the Department of Chemistry at the Indian Institute of Technology Bombay (IIT Bombay), led by **Prof. Arnab Dutta**, have collated the advances made in the field of hydrogen generation for the steel industry and put forward the best way to decarbonise the steel industry using 'green' hydrogen.

The H-DRI process uses hydrogen to convert iron ore into steel instead of coal, releasing water vapour rather than carbon dioxide as a byproduct during the manufacturing process. This makes hydrogen a great option for "decarbonising" the steel industry. Currently, most of the hydrogen comes from processes like steam methane reforming or coal gasification. Both rely on fossil fuels, which still generate CO<sub>2</sub>, defeating the primary purpose.

So, to produce hydrogen sustainably, researchers are shifting towards water electrolysis — a process of splitting water into hydrogen and oxygen using electricity in an electrolyser device. If renewable energy sources like wind or solar can power the electricity, the process becomes emission-free, hence the term 'green hydrogen'. However, producing green hydrogen at an industrial scale is expensive as it needs considerable infrastructure modifications and effective catalysts.

Catalysts are essential to make the water electrolysis used for hydrogen production effective. Generally, noble metals such as platinum and palladium are used as catalysts. "These (noble metals) are expensive and limit large-scale applications and are not suitable for harsh or remote conditions," says **Dr. Suhana Karim**, a postdoctoral research fellow in Prof. Dutta's lab. "So, the focus is on finding

## Cobalt-Based Catalysts And More: Reducing Carbon Emissions In Steel Industry



Prototype of a multi-stack electrolyzer developed by Prof. Arnab Dutta's research group. (Photos by: Arnab Dutta and Suhana Karim)

alternatives that are economically viable and sustainable," she adds.

Researchers worldwide, including Prof. Dutta's group, are developing cobalt-based catalysts (cobaloximes) that are water soluble and air-stable to aid electrolysis without requiring specialised equipment. Cobaloximes are cheaper than noble metals and can be synthesised easily.

Several researchers have improved the stability and reaction rates of cobaloximes by modifying their molecular structure. For example, Prof. Dutta and his team have added natural amino acids, vitamins and other functional groups into the catalyst's structure to increase hydrogen production rates while maintaining energy efficiency. "We have also modified cobaloximes to work effectively in the presence of various minerals and salts, such as in seawater," adds **Dr. Suhana**.

Cobaloximes work well in labs, but it is complex to use them for industrial hydrogen production. Hence, researchers are modifying their structure to make it compatible with the electrodes of the electrolyser and attaching them to solid supports to enhance stability, efficiency and durability.

The researchers also analysed different types of electrolysers and furnaces to improve hydrogen production using renewable energy for industry. They found that cobaloxime catalysts perform well in both alkaline electrolysers, using solutions like potassium hydroxide and proton exchange membrane electrolysers, which use a solid polymer membrane in acidic conditions.

"Each type has strengths and weaknesses in cost, durability and efficiency," explains **Prof. Dutta**.

In an electrolyser, when an electric current is passed through water, it splits and hydrogen gets collected at the negative electrode (cathode) and oxygen at the positive electrode

(anode). A complete set of electrodes, including a membrane, called a "stack", separates the hydrogen and oxygen generation during electrocatalysis. Using multiple stacks, the electrolysers work more efficiently to produce copious amounts of hydrogen and can cut CO<sub>2</sub> emissions by 30–50%, making the hydrogen-based energy economy more sustainable. "A single stack might produce one litre of hydrogen per day, but an appropriately designed multi-stack system can produce ten times as much using the same control setup," explains **Prof. Dutta**.

Researchers from IIT Bombay also point out that the traditional blast furnace-basic oxygen furnace method uses a lot of coal to produce steel, releasing a significant amount of CO<sub>2</sub>. In contrast, the electric arc furnace uses electricity and when powered by renewable energy, it produces less carbon emissions. Researchers believe that by combining hydrogen-based direct reduction of iron with electric arc furnace technology, steelmaking can become nearly carbon-neutral.

The use of green hydrogen can further be combined with carbon capture, utilisation and storage (CCUS) strategies to further reduce emissions. CCUS systems capture any leftover CO<sub>2</sub> from steelmaking or other processes, allowing its use to produce synthetic fuels or chemicals or stored deep underground for the long term. This approach also promotes a circular economy by reusing CO<sub>2</sub> in productive ways.

The IIT Bombay study highlights how water electrolysis using cobalt-based catalysts and choosing suitable electrolysers and furnace types, can produce green hydrogen-based steel. This approach helps significantly reduce carbon emissions, paving the way for a cleaner and more sustainable future for steel production.

Article written by: Manjeera Gowravaram

Link to published work: <https://www.sciencedirect.com/science/article/pii/S2666278724000448>

## Notifications

**Prof. Prakash Nanthagopalan**, Department of Civil Engineering, has been appointed as new Associate Dean (Infrastructure Planning and Support) - III for period of three years w.e.f. 14th February, 2025

**Prof. Krishnan Sivasubramanian**, has been appointed as Head, Department of Mathematics w.e.f. 2nd January, 2025

**Prof. Anindya Dutta**, Department of Chemistry, has been appointed as Head, Centre for Sophisticated Instruments and Facilities w.e.f. 13th January, 2025

**Prof. Ashutosh Kumar**, Department of Biosciences and Bioengineering, has been appointed as Professor-in-Charge of the Wadhvani Research Centre for Bioengineering (WRCB) IIT Bombay w.e.f. 7th January, 2025

**Prof. Shivasubramanian Gopalakrishnan**, Department of Mechanical Engineering, has been appointed as Head, Computer Centre w.e.f. 1st March, 2025

**Prof. Amber Srivastava**, Department of Mechanical Engineering, has been appointed as Professor-In-Charge of Makerspace w.e.f. 7th January, 2025

**Prof. Subimal Ghosh**, Department of Civil Engineering, has been selected as Institute Chair Professor in Engineering Sciences and Design for a period of three years till 2028 w.e.f. January, 2025

**Prof. Siddhartha Ghosh**, Department of Civil Engineering, has been selected as Jitendra K and Meena J Mehta Chair Professor for a period of three years till 2028 w.e.f. January 2025

**Prof. Anjali Sharma** (Ashank Desai Centre for Policy Studies) has been transferred to Centre of Climate Studies w.e.f. 8th January, 2025

**Prof. Mythili Vutukuru**, Department of Computer Science and Engineering, has been appointed as Warden, Hostel No.11 w.e.f. 17th January, 2025

**Prof. Pradeep Dixit**, Department of Mechanical Engineering, has been appointed as Warden, Hostel No.13 w.e.f. 12th February, 2025

**Prof. Aditi Chaubal**, Department of Economics, has been appointed as Associate Warden, Hostel No.11 w.e.f. 14th February, 2025

**Prof. Nagendra Kumar**, Department of Aerospace Engineering, has been appointed as Associate Warden, Hostel No.13 w.e.f. 12th February, 2025

**Ms. Maheshwari Mudaliar**, has been appointed as Assistant Registrar in the Recruitment Section w.e.f. 17th February, 2025

**Ms. Sai Navalkar**, has been appointed as Assistant Registrar in the Administration Section w.e.f. 17th February, 2025

**Mr. Sachin G. Shiriskar**, has been appointed as Assistant Registrar in the Faculty and Support Services (F&SS) Section w.e.f. 17th February, 2025

## Awards and Distinctions

**Prof. Syaamantak Das**, Centre for Educational Technology, has received the **Global Massive Open Online Challenge (MOOC) 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 in December 2024 in London

**Prof. Syaamantak Das**, Centre for Educational Technology, has been accepted into the second edition of the **Learning Analytics and Artificial Intelligence Executive Leadership Academy**, associated with the Learning Analytics & Knowledge Conference, a premier research conference in educational technology

**Prof. Rohit Srivastava**, Department of Biosciences and Bioengineering, has been awarded **Distinguished**

**Alumni Award 2024** from Visvesvaraya National Institute of Technology (VNIT) and VNIT Nagpur Alumni Association (VNIT AA)

**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

**Prof. Nand Kishore**, Department of Chemistry, has been awarded the **Netzsch – ITAS Award** for outstanding contributions in the field of thermal analysis. This award is instituted by Indian Thermal Analysis Society (ITAS) and is sponsored by M/s Netzsch Gerätebau, GmbH, Germany

**Prof. N. Hemachandra**, Department of Industrial Engineering and Operations Research, has been awarded the **Google India Research Award 2024** jointly with **Prof. Shweta Jain (IIT Ropar, PI)**

for their research collaboration **“Fair Allocation of Resources via Multi-armed Bandit Algorithms”**

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

**Prof. Sandeep Anand**, Department of Electrical Engineering, has been awarded the prestigious **“Young Faculty Research Fellowship” under Visvesvaraya PhD Scheme for Electronics & IT** by Ministry of Electronics and Information Technology (MeitY), Government of India

**Prof. Sudarshan Kumar**, Department of Aerospace Engineering, has been selected for the conferment of the **Indian Society for Technical Education (ISTE) Honorary Fellowship for the year 2024**

**Prof. Pratibha Sharma**, Department of Energy Science and Engineering, was invited as an **Eminent Scientist** by the Honorable President of India **Smt. Droupadi Murmu** to the 76th Republic Day celebrations for “**At Home Reception**” at the Rashtrapati Bhavan on 26th January, 2025

**Prof. Vikram Vishal**, Department of Earth Sciences, was invited as an **Eminent Scientist** by the Honorable President of India **Smt. Droupadi Murmu** to the 76th Republic Day celebrations for “**At Home Reception**” at the Rashtrapati Bhavan on 26th January, 2025

**Prof. Vikram M. Gadre**, Department of Electrical Engineering, has been awarded the **CVIP 2024 Lifetime Achievement Award** during an International Conference on Computer Vision & Image Processing (CVIP) held at the Indian Institute of Information Technology Design and Manufacturing (IIITDM) Kancheepuram, Chennai in December 2024

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

**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. Ganesh Ramakrishnan**, Department of Computer Science and Engineering, has received acceptance for his submission titled “**S72746: BharatGen: A Generative AI Initiative for Inclusive Innovation Using NVAIE**”. This work will be presented at the highly competitive Gen AI forum - the **NVIDIA GTC Summit** scheduled in March 2025 in San Jose, USA

**Prof. Indrajit Mukherjee**, Shailesh J. Mehta School of Management, along with **Ashutosh Kumar Thakur**, a research scholar, have received the **Outstanding Paper Award** for their co-authored paper titled “**Supplier Selection and Order Allocation for Assembly Products using Multi-stage Stochastic Bi-objective Approach**” at the IEEE International Conference on Industrial Engineering and Engineering Management (IEEM) 2024

**Prof. Sumit Saxena**, Department of Metallurgical Engineering and Materials Science, has been invited to join as **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** for period of two years effective from 1st January 2025

**Prof. Subhasis Chaudhuri**, Department of Electrical Engineering, has been selected to receive the **ECE Distinguished Alumni Award (Applied Math) for the academic year 2024-2025** by the Alumni Advisory Board of the Department of Electrical and Computer Engineering (ECE) at the University of California, San Diego, USA. The ECE Distinguished Alumni Awards are given for Applied Math, Applied Physics and Systems areas

**Prof. Ambarish Kunwar**, Department of Biosciences and Bioengineering, has been appointed as a **Regular Member of the International Union of Pure and Applied Physics (IUPAP) Commission 13 (C13)** for the period 2025-2027

**Prof. Virendra Sethi**, Environmental Science and Engineering Department, has been awarded the ‘**Air Quality Management Lifetime Achievement Award 2024**’, by the Air Quality Management Association during the 9th Indian International Conference on Air Quality Management (IICAQM-2024) held at IIT Madras in December 2024

**Prof. RAAJ Ramsankaran**, Department of Civil Engineering, has been invited to join as **Associate Editor** for journal **ARC Geophysical Research (ARC GR)**, published by ARC Alliance

**Prof. Ravi Sinha** and **Prof. Deepankar Choudhury**, Department of Civil Engineering, have been appointed as **non-officio members** of the **Maharashtra State Disaster Management Authority (SDMA)**, to be Chaired by the Hon’ble Chief Minister of Maharashtra **Shri Devendra Fadnavis**, as per office order dated 6th February, 2025

**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 Integrated Design Research (IDR) Journal**, housed at the Department of Integrated Design, Faculty of Architecture, University of Moratuwa, Sri Lanka

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

**Prof. Mithun Chowdhury**, Department of Metallurgical Engineering and Materials Science, has joined as **Editorial Board Member of Communications Physics**, a Nature Portfolio journal

**Prof. Archana Pai**, Department of Physics, has been invited to join the **Executive Editorial Board of Classical and Quantum Gravity**, an established journal for physicists, mathematicians and cosmologists in the fields of gravitation and the theory of spacetime, published by IOP

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

**Prof. Shireesh Kedare**, Director of IIT Bombay, has been elected as the **Chair of the SATU (Southeast and South Asia and Taiwan Universities) Presidents’ Forum** at the 2025 General Assembly, hosted by National Cheng Kung University (NCKU), Taiwan on 12th-13th March, 2025

**Prof. Pushpak Bhattacharyya**, Department of Computer Science and Engineering, has been selected to receive the **Sony Research Award 2024**

**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

**Prof. Deepankar Choudhury**, Department of Civil Engineering, was the **Convener** of the team

appointed by 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*”



*Into the Manhole*, the 6DoF VR Narrative created at IDC School of Design, directed by **Prof. Abhishek Verma** and **Prof. Jayesh Pillai**, won the **FICCI Best Animated Frames Award 2025**, under Best XR Short Film category.

The technical director **ShivaTeja Banda** and music director/sound designer **Ananda Bathena** (IDC alumnus) received the award at the FICCI BAF Award function on 27th March, 2025.

### IIT Bombay Wins National Intellectual Property Award 2024 For Designs

IIT Bombay has been awarded the prestigious **National Intellectual Property Award 2024** in the category of *Top Indian Organisation for Design Patent Applications*. This recognition underscores our commitment to fostering innovation, research excellence and intellectual property creation.

**Prof. Upendra Bhandarkar**, 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.

This achievement reflects the collective efforts of our brilliant faculty, researchers and students in pushing the boundaries of innovation. The Institute extends its gratitude to all contributors and reaffirms its dedication to strengthening India's intellectual property ecosystem.



## Publications

**Prof. Arun Mascarenhas**, IDC School of Design, IIT Bombay and **Prof. Jyotsna Tiwari** (Department of Education in Arts & Aesthetics (DEAA), National Council of Educational Research & Training (NCERT)), published a paper titled '**Industrial Art to Design Education: A Historical Overview of Art Education's Relevance in India**' in Aneesha Sharma, Ravi Poovaiyah (Editors) *Futuring Design Education (FDE)*, 2024, Volume 2, as part of book series *Design Science and Innovation* by Springer, Singapore. [https://doi.org/10.1007/978-981-97-9210-8\\_20](https://doi.org/10.1007/978-981-97-9210-8_20)

**Prof. Arun Mascarenhas**, IDC School of Design, IIT Bombay published a paper titled '**The Iconography of Dr. B. R. Ambedkar: The Symbolic Means in Visual and Design Culture**' in *International Journal of Arts Architecture & Design (JAARD)*, 2025, Vol. 3, No. 1, p51-67. (ISSN 2584-0282). <https://doi.org/10.62030/2025Janpaper4>

**Prof. Arun Mascarenhas**, IDC School of Design, IIT Bombay in collaboration with **Prof. Suvidha P** from Presidency University Bengaluru, authored the Book Chapter '**Sericulture Waste to Wealth: women's Empowerment by Vocational Skill Training on Handmade Cocoon Products**,' in Goel, A. et al. (Editor), *Ocean Publication* (2025), ISBN: 978\_93-91664-22-0, published by College of Community Science, G. B. Pant University of Agriculture & Technology Pantnagar-263145, Udham Singh Nagar, Uttarakhand India

**Prof. Arun Mascarenhas**, IDC School of Design, presented a research paper titled '**Mapping the Creativity Concepts in Education Policies: Implications for Holistic Development and Design Education in India**' at the 10th International Conference on **Research Into Design (ICoRD'25)** under the theme '**Responsible and Resilient Design for Society**' organized by Department of Design,

IIT Hyderabad, India held during 8th-10th January, 2025. The abstract was published in the conference proceedings '**Resilience and Responsiveness**' (p. 484) under the section *S39-DTRM: Design Theory Research and Methodology*

## Conferences

The **Sunita Sanghi Centre of Aging and Neurodegenerative Diseases (SCAN) Centre, IIT Bombay**, organised 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.

The **Centre of Excellence in Oil, Gas & Energy (CoE-OGE), IIT Bombay** organised 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.

**IIT Bombay and the Department of Environment and Climate Change, Maharashtra Pollution Control Board (MPCB)**, jointly organised 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.

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.

The **Department of Civil Engineering, IIT Bombay** organised the **2nd Indian Cryosphere Meet (ICM) 2025**, during 14th-15th February, 2025. **Prof. RAAJ Ramsankaran** was the host.

The **Department of Economics, IIT Bombay** in association with the Young Scholars Initiative (YSI) instituted by the Institute of New Economic Thinking (INET) organised 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.

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.

The **Aerosol and Nanoparticle Laboratory (ANTL), Environmental Science and Engineering Department, IIT Bombay** organised 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**

The **Ashank Desai Centre for Policy Studies, IIT Bombay**, organised a one-day symposium on **Global Citizenship Education and Internationalisation of Higher Education** on 29th January, 2025. **Prof. Malish. C. M** was the convener.

The **Department of Biosciences and Bioengineering, IIT Bombay**, organised an International conference on **Advances in Proteomics Technologies (APT)–2025** during 16th-17th February, 2025. **Prof. Sanjeeva Srivastava** was the convener.

The **Department of Chemical Engineering, IIT Bombay** organised 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.

IIT Bombay organised 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.

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).

The Department of Computer Science and Engineering, IIT Bombay organised **Research and Innovation Symposium in Computing (RISC) 2025** during 22nd-23rd March, 2025. **Prof. Varsha Apte (HoD)** was the convener.

## Workshops

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.

The **Fire and Safety Section, Office of Dean, Infrastructure Planning & Support (IPS)** organised a workshop on *Laboratory Safety: Practices and Protocols* on 22nd January, 2025.

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 organised 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.

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. Sarawat**, 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

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 co-ordinators.

The **Centre for Climate Studies, IIT Bombay** organised 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 organisers.

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.

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.

The **Ashank Desai Centre for Policy Studies, IIT Bombay** organised 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. Sapsal** was the convener.

The **Ashank Desai Centre for Policy Studies, IIT Bombay** organised 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:**

1. **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”**.
2. **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”**.
3. **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”**.

The **Centre for Educational Technology (ET), IIT Bombay** organised a two-day workshop on **‘Educational Technology in the Field’** during 24th-25th January, 2025. **Prof. Sahana Murthy**, Head, ET was the convener.

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.

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.

The **Department of Biosciences and Bioengineering, IIT Bombay** organised a workshop on **Advances in Proteomics Technologies (APT)-2025** during 14th-15th February, 2025. **Prof. Sanjeeva Srivastava** was the convener.

The **Department of Chemical Engineering, IIT Bombay** organised 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.

The **Department of Mechanical Engineering, IIT Bombay** organised 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.

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).

### Visit Of 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

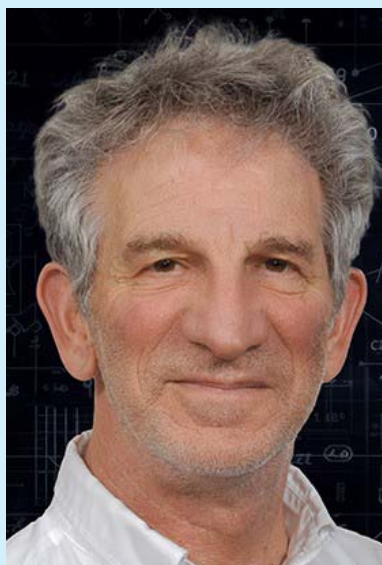
and Data Science. They gained hands-on experience through simulations and live demonstrations, providing a comprehensive understanding of AI-driven innovations and advancements.

**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 Colloquium / Lectures



**Prof. S. R. Kulkarni**, George Ellery Hale Professor of Astronomy and Planetary Science (Caltech), California Institute of Technology, delivered an Institute Lecture titled *“The Dynamic Universe”* on 6th January, 2025



**Prof. Peter Sarnak**, Professor Emeritus, Institute for Advanced Study in Princeton and Eugene Higgins Professor of Mathematics at Princeton University, delivered an Institute Colloquium (co-hosted by Infosys Science Foundation) titled *“Ramanujan and Expander Graphs”* on 7th January, 2025



**Ms. Sneha Khandekar**, Gender Diversity and Inclusion Consultant and **Ms. Smita Waingankar**, Senior Researcher, Centre for Urban Policy and Governance, Tata Institute of Social Sciences, Mumbai, delivered an Institute Talk titled *“Towards gender-safe and respectful campus”* on 16th January, 2025



**Prof. Sanjay Sampath**, Distinguished Professor, Materials Science and Chemical Engineering, Stony Brook University, New York, USA, delivered an Institute Lecture titled *“Building and Sustaining Academic-Industry Partnership for Accelerating Innovation: Case Study for Thermal Spray Manufacturing”* on 20th January, 2025



**Prof. Suresh Bhargava**, Distinguished Professor & Director-CAMIC Centre, School of Science, RMIT University, Melbourne, Australia, delivered an Institute Lecture titled *“Translating Fundamentals: Innovations in Molecular and Nano Engineering of Gold”* on 22nd January, 2025



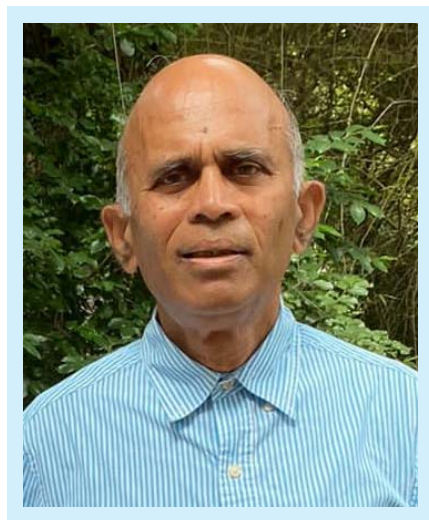
**Prof. Prem Kumar**, Professor of Electrical and Computer Engineering, Director of Center for Photonic Communication and Computing, McCormick School of Engineering, Northwestern University, USA, delivered an Institute Lecture titled *“Engineering Challenges for the Emerging Quantum Networks”* on 29th January, 2025



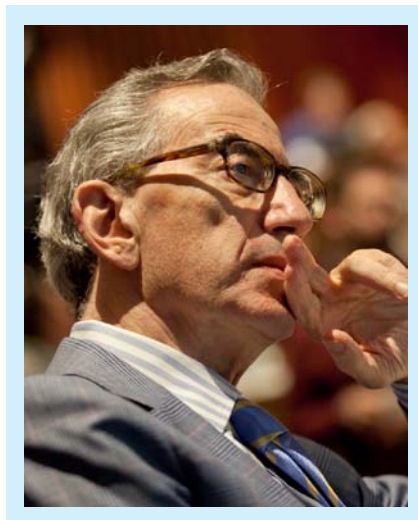
**Prof. Kaushik Basu**, Carl Marks Professor, Cornell University and N. R. Kamath Visiting Chair Professor, IIT Bombay, delivered N.R. Kamath Distinguished Institute Lecture titled *“Changing Nature of Labour and Employment: Some Conceptual Issues and Ideas for India”* on 29th January, 2025



**Prof. Dame Janet Thornton**, Director Emeritus, European Molecular Biology Laboratory-European Bioinformatics Institute (EMBL-EBI), Wellcome Genome Campus, Hinxton, Cambridgeshire, UK, delivered an Institute Colloquium titled *“Fifty Years of Bioinformatics and Protein Structures”* on 3rd February, 2025



**Prof. Ganapathy Baskaran**, Indian Theoretical Physicist; Distinguished Professor, Indian Institute of Technology Madras; Distinguished Visiting Research Chair, Perimeter Institute for Theoretical Physics in Waterloo, Canada; Emeritus Professor, The Institute of Mathematical Sciences in Chennai, delivered an Institute Colloquium titled *“Boson Bloom”* on 5th February, 2025 as part of ***Celebration of International Year of Quantum Science and Technology and Centenary of ‘Bose-Einstein’ Statistics***



**Prof. Michael L. Klein FRS**, Laura H. Carnell Professor of Science, Director, Institute for Computational Molecular Science, College of Science and Technology at Temple University, Philadelphia, USA, delivered an Institute Colloquium titled *“Water, Water Everywhere ...”* on 6th February, 2025

**Prof. Klein** also delivered N.R. Kamath Distinguished Institute Lecture titled *“Computation as a Route to Understanding & Discovery in Chemistry”* on 10th February, 2025



**Prof. Matthew (Mat) Collins**, Head of the Department of Mathematics and Statistics, Joint Met Office Chair in Climate Change, University of Exeter, UK, Field Chief Editor of Frontiers in Climate, delivered an Institute Lecture titled *“New Insights in Climate Change: Signals from the Equator to the Poles”* on 12th February, 2025



**Mr. Sanjeev Sanyal**, Author, Economist and Member of the Economic Advisory Council to the Prime Minister of India, delivered an Institute Colloquium titled *“Indian Cultural Values, Inclusive Development and Realizing the Vision of Viksit Bharat”* on 27th February, 2025



**Prof. Herbert Huppert**, ScD FRS Professor of Theoretical Geophysics, University of Cambridge, United Kingdom, delivered N.R. Kamath Distinguished Institute Lecture titled *“Particle driven flows: In theory, in the environment and in laboratory experiments”* on 26th March, 2025



**Dr. Mrutyunjay Mohapatra**, Director General of Meteorology, India Meteorological Department, Government of India, Permanent Representative of India to World Meteorological Organization and Third Vice President of World Meteorological Organization delivered Institute Colloquium titled *“Evolution of weather forecasting services in India during the past 150 years”* on 26th March, 2025

### Alumni News



Dr. Nitin Nohria

IIT Bombay congratulates its accomplished alumni **Dr. Nitin Nohria** (B.Tech., Chemical Engineering, 1984) and **Dr. Chetan Chitnis** (M.Sc., Physics, 1983), on being conferred the prestigious **Padma Shri Award** for the year 2025. Dr. Nitin Nohria, a visionary leader and academic and Dr. Chetan Chitnis, a pioneer in scientific research, exemplify the true spirit of excellence and service that IIT Bombay stands for!



Dr. Chetan Chitnis



Dr. Kishor Subhash Jaiswal  
Image Courtesy: [www.usgs.gov](http://www.usgs.gov)

IIT Bombay is delighted to announce that **Dr. Kishor Subhash Jaiswal** (B.Tech., Civil Engineering, 2006), has been awarded the prestigious **Meritorious Service Award** by the U.S. Department of the Interior. This esteemed recognition, the second highest honour granted by the department, acknowledges Dr. Jaiswal's outstanding scientific

contributions in earthquake risk assessment and his instrumental role in advancing the safety and resilience of communities worldwide. Dr. Jaiswal frequently advises the US President on their government's response to earthquake crisis around the world.

Student News

The following students from the Department of Biosciences and Bioengineering have received the **Gandhian Young Technological Innovation Award (GYTI)-2023 appreciation award**.

**Roshan Keshari**, a PhD scholar under the supervision of **Prof. Rohit Srivastava** and **Prof. Shamik Sen** was awarded **GYTI Award 2023** for his paper titled **“Phytonanogel shield: precision care for psoriasis patients”**. He also has been selected among the top ~10% of applicants for the prestigious 2025 CAS Future Leaders Program by American Chemical Society.



**Dr. Tathagata Pal**, former PhD student of **Prof. Soumyo Mukherji** was awarded **GYTI Award 2023** for his paper titled **“Colorimetric chemosensor for rapid detection of fluoroquinolone load in environmental water bodies, urine and counterfeit drug testing”**.



The following research scholars from the Department of Computer Science and Engineering are the recipients of **Asha Navani Ph.D. Fellowship**. The fellowship recognizes outstanding academic achievements and the potential for significant contributions to the field of study.

**Drashthi D.**, a member of the CompEcon research group, conducts research under the guidance of **Prof. Swaprava Nath**. Her work focuses on designing mechanisms for Federated Learning systems with decentralized model training. She analyzes model training and learning outcomes when agents behave strategically, aiming to identify and mitigate sub-optimal results. Drashthi is also involved in cooperative game theory research to compute rewards that promote optimal outcomes.



**Preeti Kiran**, a member of the SynerG research group, conducts research under the guidance of **Prof. Mythili Vutukuru**. Her work focuses on enhancing high-speed network application performance by optimizing cache utilization through adaptive network packet buffer placement within the system.



**Dr. Abhijeet Awasthi** (Advisor: **Prof. Sunita Sarawagi**), Department of Computer Science and Engineering, 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”**. Abhijeet pioneered methods in data-efficient NLP. His contributions include error correction frameworks like PIE, which influenced tools like Grammarly and innovative techniques integrated into libraries such as Astra and WRENCH.



Students **Ramkumar Rajendran**, **Aarsh Desai**, **N.V.J.K Kartik**, **Priyesh Gupta**, **Vinayak**, **Ashwin T S** and **Manjunath K. Vanahalli** from the Centre for Educational Technology have received the **Best Student Paper Award** for their paper titled **“Advancing Speaker Diarization With Whisper Speech Recognition for Different Learning Environments”**, presented at the 2024 (Institute of Electrical and Electronics Engineers) IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE), Bengaluru in December 2024.

Appointments



**Dr. Jaideep Joshi**, has been appointed as Assistant Professor Grade I in the Centre for Climate Studies w.e.f. 1st January, 2025



**Dr. Nagappan Ramaswamy**, has been appointed as Associate Professor in the Department of Chemical Engineering w.e.f. 1st January, 2025



**Dr. Subhaskar Mandal**, has been appointed as Assistant Professor Grade II in the Department of Physics w.e.f. 6th January, 2025



**Dr. Yohan S. Engineer**, has been appointed as Assistant Professor Grade I in the IDC School of Design w.e.f. 9th January, 2025



**Dr. Soumyashree Kar**, has been appointed as Assistant Professor Grade I in the Centre of Studies in Resources Engineering w.e.f. 13th January, 2025



**Dr. Pranay Sharma**, has been appointed as Assistant Professor Grade II in the Centre for Machine Intelligence and Data Science w.e.f. 7th February, 2025



**Dr. Arjun Nitin Bhagoji**, has been appointed as Assistant Professor Grade I in the Centre for Machine Intelligence and Data Science (C-MInDS) w.e.f. 17th February, 2025



**Dr. Pratik Kumar Jawanpuria**, has been appointed as Associate Professor in the Centre for Machine Intelligence and Data Science (C-MInDS) w.e.f. 5th March, 2025



**Ms. Suman Gupta**, has been appointed as Sr. Technical Officer (Scale A) in the Department of Chemical Engineering w.e.f. 3rd March, 2025



**Dr. Ambuj Khare**, has been appointed as Chief Security Officer (Scale A) in the Security Section w.e.f. 3rd March, 2025

Retirements on 31st January, 2025

**Prof. Raghu Murtugudde**, Centre for Climate Studies, retired after 1 year of service



**Ms. Sangeeta A. Shirole**, Multiskilled Assistant, Department of Metallurgical Engineering and Materials Science, retired after 19 years of service



**Mr. Dilip B. Patil**, Sr. Security Guard, Security Section, retired after 32 years of service



Retirements on 28th February, 2025

**Mr. Pradep S. Sawant**, Lab Assistant, Department of Earth Sciences, retired after 38 years of service



**Mr. Rajendra B. Agawane**, Sr. Multiskilled Assistant, Environmental Science and Engineering Department, retired after 32 years of service



Retirements on 31st March, 2025

**Prof. Rajendra P. Vedula**, Department of Mechanical Engineering, retired after 34 years of service



**Prof. Maravanji S. Balakrishna**, Department of Chemistry, retired after 29 years of service



**Mr. Pramod G. Jadhav**, Sr. Multiskilled Assistant, IIT Hospital, retired after 35 years of service



**Mr. Tanaji H. Gurav**, Sr. Security Guard, Security Section, retired after 33 years of service



**Mr. K. Ramakrishnan Manoharan**, Multi Skilled Assistant C, Hostel No. 04, Centralized Hostel Management System, retired after 38 years of service



CEP courses scheduled during April and May and June 2025			
No	Course Title	Course Coordinator/ Department	Duration
<b>Open Programmes : (April 2025)</b>			
1	Microsystems Packaging: Theory And Hands-on Simulation	Prof. Pradeep Dixit, Department of Mechanical Engineering	April 7, 2025 (5 days)
2	Fundamentals of AI For Entrepreneurs, Corporates and Professionals	Prof. Sandesh Ramu, IDC School of Design	April 12, 2025 (2 days)
3	Qualitative Research Methods In Design	Prof. Anirudha Joshi, IDC School of Design	April 12, 2025 (6 days)
4	Compressed Biogas: Technology, Scale-Up and Assessment	Prof. Yogendra Shastri, Department of Chemical Engineering	April 23, 2025 (3 days)
<b>Open House Programmes: (May 2025)</b>			
5	Design of Net-Zero Buildings	Prof. Gurubalan Annadurai, Department of Energy Science and Engineering	May 7, 2025 (3 days)
6	Advanced Topics In Deep Learning For Computer Vision Applications	Prof. Biplab Banerjee, Centre for Studies in Resources Engineering	May 19, 2025 (5 days)
7	Quantitative Research Methods In Design	Prof. Anirudha Joshi, IDC School of Design	May 31, 2025 (6 days)
<b>Open House Programmes: (June 2025)</b>			
8	Human Factors In Interaction Design	Prof. Anirudha Joshi, IDC School of Design	June 16, 2025 (6 days)
9	Introduction To Virtual And Augmented Reality	Prof. Anirudha Joshi, IDC School of Design	June 25, 2025 (6 days)

## Obituary

IIT Bombay mourns the loss of following members:




**Dr. R. Chidambaram**, an outstanding academician and Chairperson of the Board of Governors of IIT Bombay (1994-1997), passed away on 4th January, 2025. He was instrumental in setting up the Centre of Excellence in Nanoelectronics at IIT Bombay.

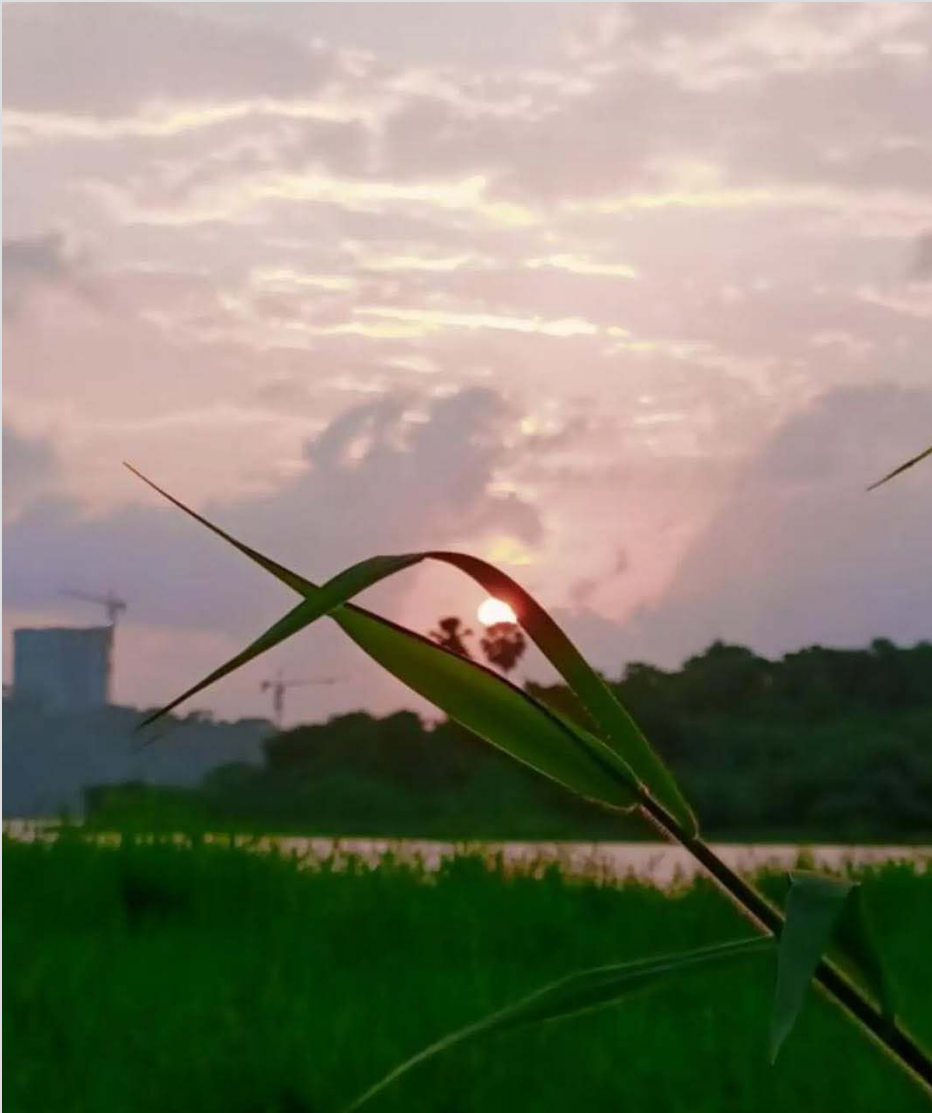


**Prof. Ajit. A. Diwan**, a beloved and highly admired faculty member of the Department of Computer Science and Engineering (CSE) at IIT Bombay, passed away on 19th January, 2025.



**(Retd.) Mr. Ajit Jena**, former Chief Technology Officer (CTO) of the Computer Centre, passed away on 11th January, 2025.

 In the Wilderness



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*@nature\_iitb@bhavanamoningi*

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BOOK POST

