

## IIT Bombay's Silver Jubilee Batch of '96 Pledges Rs. 17 crores Towards Legacy Project



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- **IIT Bombay's annual fundraiser GO IIT Bombay campaign was announced**
- **Distinguished Service Awards were bestowed on five alumni members**
- **Chapter Service Awards were bestowed on nine alumni members**
- **A alumni appreciation and gratitude programme was held**
- **The first programme of Dr. Pramod Chaudhari Alumni Continuing Education Centre (PCACEC) was launched**
- **"Student Hostel 8 Complex - Project Evergreen" was announced**

The Indian Institute of Technology Bombay (IIT Bombay), celebrated its annual Alumni Day on December 26, 2021, in a hybrid mode. The function started with a warm welcome by **Prof. Suhas Joshi**, Dean (Alumni and Corporate Relations), IIT Bombay.

**Prof. Subhasis Chaudhuri**, Director, IIT Bombay gave the visiting alumni an overview of the Institute and its growth over the years. In his address, Prof. Chaudhuri informed how the Institute is growing from strength to strength. *"It gives me immense joy to inform that IIT Bombay has ranked 1st in India in the QS World University Rankings for 2021. IIT Bombay continues to be the first choice for both undergraduate and postgraduate students in the country and attracts many of the top-ranked students from national entrance exams such as GATE, CEED, UCEED, NET, JAM and JEE. It is a matter of immense pride that 43 out of the top 50 rankers in the JEE exam joined IIT Bombay for the B.Tech. programme in 2021. As we continue to equip our students with the necessary skills and education to flourish in highly competitive fields, the results are there for everyone to see,"* he said.

### Silver Jubilee Batch Class of '96's pledge towards Legacy Project

**The Silver Jubilee Batch (class of 1996) has pledged a sum of Rs. 17 crores towards the Legacy Project.**

A Legacy Project is a project adopted by the batch celebrating its Silver Jubilee anniversary, for the betterment of the Institute and of the people associated with it, as a way of giving back to the alma mater and to leave behind a lasting legacy and remembrance of their silver jubilee reunion.

### Launch of IIT Bombay's annual fundraising campaign

The event witnessed the launch of IIT Bombay's fundraising campaign '**GO IIT Bombay**' for the year 2021-2022. The campaign aims to raise funds for various campus initiatives including:

- Enhancing undergraduate labs by providing state-of-the-art facilities to students to further their experiential learning
- Young Faculty Awards to attract and retain the best and brightest minds from across the globe to be a part of IIT Bombay's prestigious faculty body
- Student scholarships to provide economic support to high-calibre and disadvantaged students
- Enhancing hostel infrastructure, aimed at providing top-notch amenities to IIT Bombay's students to augment their living experience on campus
- Regular Giving - a different scheme – being covered under the campaign which you can contribute to monthly, quarterly, and bi-yearly. This scheme aims at overcoming resource gaps to support a variety of causes, such as scholarships to deserving students; funding pioneering and competitive research amongst others.

### Distinguished Service Awards and Chapter Service Awards

As a part of the function, **Distinguished Service Awards** were bestowed on five alumni members this year, who besides being achievers in their own chosen domains, have contributed in a notable and sustained manner to the progress of the Institute. The award, instituted in the year 1999, consists of a certificate, memento and an *Uttaria*. This year, the award was conferred on **Mr. Arun Joshi**, B.Tech. (Honors), 1969; **Mr. Kiran Shesh**, B.Tech., 1988; **Mr. Girish Nayak**, B.Tech., 1991; **Dr. Ajay Sethi**, B.Tech., 1990, and **Ms. Zenobia Driver**, M.Sc. (Integrated), 1998.

The **Chapter Service Awards**, instituted during the Diamond Jubilee year celebrations, were conferred on **Mr. Mahesh Bhikaji Vaidya**, M.Tech., 1985; **Mr. Devendra Agrawal**, B.Tech., 2005; **Dr. Praveen Malla**, Ph.D., 2006; **Mr. Divyam Goel**, B.Tech., 2012; **Mr. Sandeep Dandade**, M.Tech., 2013; **Ms. Avishma Matta**, B.Tech., 2013; **Dr. Sanjay Bhardwaj**, Ph.D., 2014; **Mr. Utsab Mukherjee**, M.Tech., 2014 and **Mr. Bidyut Dutta**, M.Tech., 2018. The award is conferred on select alumni who have contributed in a very notable and sustained manner to the progress of the Chapter and also to the progress of the Institute.

### Alumni Appreciation and Gratitude Programme

In this segment of the event, Prof. Subhasis Chaudhuri, on behalf of the Institute, expressed gratitude to all the major donors of the year whose generous contributions benefitted IIT Bombay in a significant way. To honour their selfless giving, a donor wall was unveiled during the function by the Director, consisting of the name of the donors and the causes they have donated to. The contributions by these donors have helped the establishment of Centres of Excellence and Chair Professorships, as well as facilitated the enhancement of infrastructural facilities on campus and played a key role in student development.

The contributions by IIT Bombay's fellow organisations - **IIT Bombay Heritage Fund (IITBHF)** and **IIT Bombay Alumni Association (IITBAA)** were also acknowledged. Heritage Foundation celebrated its 25th anniversary this year and has supported some of the landmark infrastructure projects and programmes of the Institute.

### Launch of the first programme of Dr. Pramod Chaudhari Alumni Continuing Education Centre (PCACEC)

On the occasion, IIT Bombay announced the commencement of the **first programme of 'Pramod Chaudhari Alumni Continuing Education Centre (PCACEC)'**, set up in a recent collaboration with the Institute. The Centre is aimed at facilitating the lifelong learning journey of IIT Bombay alumni, at their alma mater. The Centre was established through the generous donation by **Dr. Pramod Chaudhari**, a distinguished alumnus of IIT Bombay, also Founder and Chairman of Praj Industries.



*Dr. Pramod Chaudhari, a distinguished alumnus of IIT Bombay, also Founder and Chairman of Praj Industries while handing over cheque to Director of IIT Bombay Subhasis Chaudhuri*

### Launch of "Student Hostel 8 Complex - Project Evergreen"

The alumni of IIT Bombay have initiated a project to build a world-class hostel on campus in place of Hostel 8. Along with this, a hostel for women - titled Hostel 21 - will also be constructed. The project, titled "Student Hostel 8 Complex- Project Evergreen" has been initiated to replace the Institute's over half-a-century-old hostel infrastructure as well as create capacity for the increasing no. of students on campus.

The entire event was broadcast live on the Institute's YouTube Channel

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

Alumni of the Institute and their family members participated in the Alumni Day celebrations this year.

## IIT Bombay's Techfest 2022 Celebrates 25 years

The **25th edition of Techfest**, Asia's largest science and technology festival, was held during December 17-19, 2021 virtually. The theme for this year was '**Multiversal escapade**'. A 3D virtual replica of the Institute was also built for the festival.

This year, among the acclaimed personalities for the online lecture series, was **Hon. Kevin Rudd** - former Australian politician and diplomat. He praised young India's commitment to becoming a carbon-neutral nation and maintaining international peace. Another speaker included **Prof. Robert Aumann** - Nobel memorial prize awardee in Economic sciences. The fest also had



Virtual international exhibition saw participation of TUM Hyperloop, Germany, a 24-meters long tube as well as a human-sized passenger pod. The exhibition booth was visited by many students



AirCar Corp, an electric vertical take-off and landing (eVTOL) aircraft for two passengers, was part of the international exhibition this year

a lecture by one of its exhibition robots - **Ai-Da**, a humanoid robot credited with being the world's first ultra-realistic robot artist. While interacting, it encouraged people to reflect, think about their futures and become aware of new and powerful technologies.

Besides International lectures, the three-day long technological extravaganza had a total of **32** exhibition booths from over 10 countries, including **TUM Hyperloop** (Germany) and **AirCar Corp** (Turkey), which is an electric vertical take-off and landing (eVTOL) aircraft for two passengers, to name a few.

The Virtual Industry event saw participation of over 20,000 students of technical background pan India this year. Each visit had a live tour by industry experts, followed by keynotes and QnA. Among the seven visits this year were the **Mercedes Benz plant** and **Larsen & Turbo**.

International summits, Media Summits and Fintech Summits were organized for students and professionals to obtain valuable insight.

Overall, the Techfest this year got a viewership of more than one lakh over the three days of the online fest.

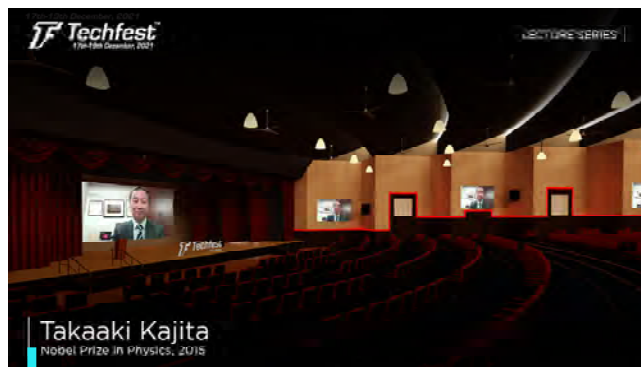


Viral Acharya

Former Deputy Governor of RBI Mr. Viral Acharya was one of the major speakers in the International Fintech Summit. He discussed the future possibilities in the Fintech sector with the students and young professionals



**UDI Dance Group**  
UDI group, a famous blacklight dance group, also the semifinalists of America's Got Talent, performed during Technoholix (Techno-cultural Nights)



**Takaaki Kajita**  
Nobel Prize in Physics, 2015  
Takaaki Kajita, Nobel prize awardee in Physics and the Director of ICRR, spoke on how studying neutrinos could help reveal undiscovered principles of nature



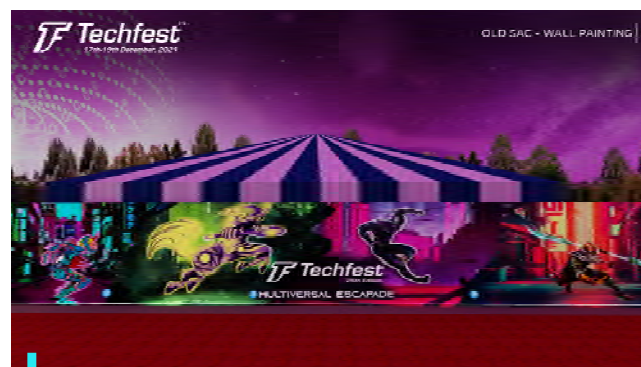
**Ai-Da Robot - Humanoid Robot Artist**  
AI-DA, a humanoid robot credited with being the world's first ultra-realistic robot artist participated in exhibition robots



**Larsen & Toubro**  
Virtual Industry exhibition of Larsen & Turbo (L&T-MHI Power Boilers Pvt. Ltd.), which designs, engineers, manufactures, installs and commissions Ultra Supercritical Boilers



**Mike D'Urzo**  
Mike D'Urzo, an international award-winning mentalist, and the founder of Mega Magic performed at the Technoholix



**Wall Painting initiative by students**

## IIT Bombay Alumnus Becomes CEO Of Twitter



IIT Bombay congratulates **Mr. Parag Agrawal**, an alumnus of IIT Bombay and Young Alumni Achiever Awardee (2019), for being appointed as the Chief Executive Officer (CEO) of Twitter, an American microblogging and social networking service. Parag did his B.Tech. from the Department of Computer Science and Engineering (CSE) in 2005.

## QS Asia University Rankings 2022: IIT Bombay Ranks 1st In India



Indian Institute of Technology Bombay (IIT Bombay) secured **first position** in India and **42nd rank** this year in the **QS Asia University Rankings 2022**. The results were released today by QS, a British company.

IIT Bombay secured an overall score of 71 out of 100. The Institute has scored 81.4 in academic reputation, 96 in employer reputation, 23 in citation per faculty, 44.7 in faculty-student ratio, 100 in staff with Ph.D. 84.2 in papers per faculty, 78.5 international research

network, 11.0 in international faculty, 4.4 in international students, 14.5 in inbound exchange and 8.3 in outbound exchange all scores out of a maximum of 100 points. Among these 11 indicators, Staff with Ph.D. indicated the strongest one for IIT Bombay with a rank of 18 regionally.

In the 2022 edition of regional rankings, the Institute performed among the top 7% in the QS Asia University Rankings 2022. The Institute was ranked 37th last year.

## IIT Bombay Receives Clarivate Innovation Award 2021



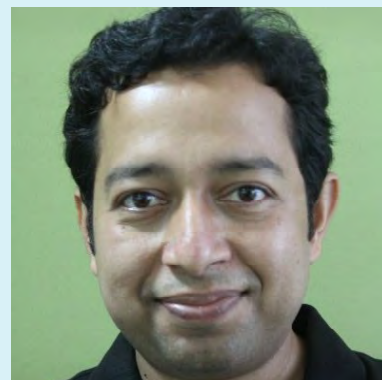
*Prof. Milind Atrey, Dean (R&D) receiving the Clarivate Innovation Award 2021*



The Indian Institute of Technology Bombay won the **Clarivate South and Southeast Asia Innovation Award 2021** in **Academic category**. IIT Bombay has won this award two years in a row now, placing it amongst top innovators in India. The felicitation ceremony was held on November 12, 2021. **Prof. Milind Atrey**, Dean (R&D) received the award on behalf of IIT Bombay.

Every year, Clarivate recognizes the most innovative companies in the region according to patent-related metrics that get to the essence of what it means to be truly innovative. The analysis is done using proprietary Clarivate data and tools. The evaluation is strictly driven by metrics for both patent volume (patents published) as well as patent quality (grant success rate, extent of globalization and citations).

## Institute Team Wins IEEE Connecting The Unconnected Challenge, 2021



(from left to right) Dr. Sarbani Banerjee Belur, Prof. Subhrajit Dutta and Prof. Siddhartha Ghosh

A proposal on '**Bamboo Towers for Low Cost, Affordable Internet Connectivity to Remote Rural Areas**' won first place in the '**Technical Concept**' category of the coveted **IEEE Connecting the Unconnected Challenge, 2021**. The winning concept comes from **Dr. Sarbani Banerjee Belur**, Senior Research Scientist, Spoken Tutorial, IIT Bombay and Asia Regional Coordinator, Association for Progressive Communication, **Prof. Siddhartha Ghosh**, Department of Civil Engineering and **Prof. Subhrajit Dutta**, an alumnus from Department

of Civil Engineering, IIT Bombay and currently in NIT Silchar. The team has proposed bamboo broadband communication towers for connecting the unconnected in rural and remote regions. The conventional steel towers are proposed to be replaced by a locally-sourced material, whose life cycle can be managed by a rural community - from sustainable cultivation to construction and maintenance. The award consists of a grant of USD 5000 towards further efforts in this direction.

## IIT Bombay Team Wins X-PRIZE

'**SASIITB**', a student-led team has won the **X-PRIZE Award** (of USD 250,000) for '**Demonstration of Carbon Dioxide Removal**' supported by the Elon Musk Foundation. SASIITB is the only single-institution team to win from India, among 23 winning teams from ten countries, out of 195 applicants globally. The winners were announced at the Sustainable Innovation Forum at COP-26 in Glasgow.

The four-member team included **Srinath Haran Iyer**, PhD student, IDP Climate Studies; **Anwasha**

**Banerjee**, PhD student, Department of Chemistry; **Srushti Bhamare**, Dual Degree (B.Tech.+M.Tech.) Student, Department of Energy Science and Engineering and **Shubham Kumar**, Junior Research Fellow, Department of Earth Sciences. The students were mentored by **Prof. Arnab Dutta**, Department of Chemistry/ interdisciplinary programme (IDP)-Climate Studies and **Prof. Vikram Vishal**, Department of Earth Sciences/ interdisciplinary programme (IDP)-Climate Studies.

## Yogastha Organises Online Talk And A Workshop For Campus Community

IIT Bombay's Yogastha club organised a talk on '**We are what we eat**' on September 24, 2021. The talk was delivered by **Mrs. Forum Devang Shah**, a passionate yoga instructor and founder of Aahar Shastra. Mrs. Shah highlighted the importance of eating right and adopting a healthy lifestyle for holistic living. She also spoke about the types of food that should be consumed and avoided, during different seasons of the year. Over 70 participants attended the online session.

A two-day online yoga workshop on '**Decode core with the yogic aspect**' was held for IIT Bombay students, staff and campus residents during November 27-28, 2021. This workshop was conducted by **Ms. Rashmita Sabat**, a highly passionate yoga practitioner with a PhD in Yoga and has been teaching for around eight years. She began this workshop by introducing the core muscles and later demonstrated core yoga practices and informed the participants how they impact in strengthening our core and gradually developing it without damaging the lower back. Over 50 participants attended this workshop and practiced yoga.

## Former Director Prof. S. P. Sukhatme Honours His Late Father Dr. P. V. Sukhatme By Establishing A Chair Professorship

After serving as the Director of the Indian Institute of Technology Bombay from January 1995 to January 2000 and being a faculty member in the Mechanical Engineering Department of IIT Bombay (October 1965 onwards), the highly-esteemed and lauded **Prof. S. P. Sukhatme** has begun a new journey with the Institute.

The Padma Shri awardee signed a **Memorandum of Understanding (MoU)** with IIT Bombay on October 12, 2021 to establish a **Chair Professorship** at the Institute in memory of his father the late **Dr. P. V. Sukhatme**, an honour awarded to faculty members to acknowledge their contributions to high-impact research and teaching.

The Chair Professorship will be called '**Dr. P. V. Sukhatme Chair in Biostatistics**' to pay homage to the late visionary's pioneering work. The aim of this initiative is to provide a boost to the subject of Biostatistics and associated applications.

A virtual MoU signing event was held at IIT Bombay and was open to invitation for the Institute's faculty

members, staff members and students. The event saw attendance in large numbers, which is not surprising considering the solid relationship Prof. S. P. Sukhatme shares with IIT Bombay. He is viewed as a father figure by students and junior colleagues and an influential leader who has contributed significantly to the Institute's growth. By virtue of his generous initiative towards creating a Chair Professorship at IIT Bombay, Prof. S. P. Sukhatme is providing an opportunity to the Institute's current professors to take the field of Biostatistics forward.

The MoU signing event at the Institute was attended by **Prof. S. P. Sukhatme** and his wife **Dr. Shobha Sukhatme**; **Prof. Subhasis Chaudhuri**, Director, IIT Bombay, **Prof. S. Sudarshan**, Deputy Director (Academic and Infrastructural Affairs), **Prof. Suhas Joshi**, Dean (Alumni and Corporate Relations), **Prof. Milind Atrey**, Dean (Research and Development), **Prof. Rohit Srivastava**, Head and Professor of Department of Biosciences and Bioengineering and **Prof. Sreedhara Sheshadri**, Head of Department of Mechanical Engineering.

## Kendriya Vidyalaya IIT Powai To Get A New Wing Through Generous Contribution By School Alumni

On September 30, 2021, a **Memorandum of Understanding (MoU)** was signed between the **Indian Institute of Technology Bombay; Kendriya Vidyalaya (KV), IIT Powai; Smt. Durga Devi Sharma Charitable Trust and Sharma Foundation**, for upgrading the infrastructure of KV IIT Powai by constructing a new wing of approximately 40,000 sq. ft. **Mr. Prashant Sharma**, trustee of the Smt. Durga Devi Sharma Charitable Trust and **Mr. Narottam Sharma**, trustee of Sharma Foundation, are both alumni of KV IIT Powai and have dedicated their donation to their late grandfather Pandit Chandrabhan Bhuramal Sharma, a freedom fighter who devoted his life for the welfare of the underprivileged and uneducated masses and was instrumental in helping IIT Bombay's authorities acquire the land in 1957.

The MoU signing event included **Prof. Subhasis Chaudhuri**, Director, IIT Bombay; **Prof. Prasanna Mujumdar**, Deputy Director (Finance and External Affairs); **Prof. S. Sudarshan**, Deputy Director (Academic and Infrastructural Affairs); **Prof. Vedagiri Perumal**, Associate Dean (Infrastructure Planning and Support-I); **Prof. Suhas Joshi**, Dean (Alumni and Corporate Relations); **Mr. Prashant Sharma**, **Ms. Saudamini Sharma** and **Mr. Himanshu Sharma**, trustees of Smt. Durga Devi Sharma Charitable Trust; **Mr. Narottam Sharma** and **Mr. Chandan Sharma**, trustees of Sharma

Foundation and **Ms. Mamta Bhattacharya**, former Principal, Kendriya Vidyalaya IIT Powai.

While speaking of this partnership, **Mr. Prashant Sharma** said, "*We are happy to get reconnected with the school and delighted that IIT Bombay has given us a chance to sponsor the construction of the new wing, which will provide top-class facilities to students in KV IIT Powai. It is a very prestigious thing for us, as our grandfather was the owner of the land where IIT Bombay is located. All his family members were students at KV IIT Powai. Therefore, we share a deep attachment with this initiative and I believe this is the perfect sponsorship for the new generation of students.*"

Commenting on the partnership, **Prof. Subhasis Chaudhuri**, Director, IIT Bombay said, "*Kendriya Vidyalaya's mission is to pursue excellence and set the pace in the field of school education. An educational institution's greatness is not just defined by its teachers and quality of curriculum but also by the facilities it provides to the students. With Smt. Durga Devi Sharma Charitable Trust and Sharma Foundation's generous contribution to upgrade the infrastructure of KV IIT Powai, the school has taken one more step forward in its mission. I am deeply grateful to Mr. Prashant Sharma and Mr. Narottam Sharma for their kind offering to their alma mater, which will further strengthen KV IIT Powai.*"

## Dr. Pramod Chaudhari With IIT Bombay Set Up The Pramod Chaudhari Alumni Continuing Education Centre

The **Indian Institute of Technology Bombay** signed an MoU with **Dr. Pramod Chaudhari**, a distinguished alumnus of IIT Bombay, also Founder and Chairman of Praj Industries for establishing the Alumni Continuing Education Centre. The Centre will be christened '**Dr. Pramod Chaudhari Alumni Continuing Education Centre**' (**PCACEC**) and will be set up to conduct the Alumni Continuing Education (ACE) programme, aimed at facilitating the lifelong learning journey of IIT Bombay alumni, at their alma mater.

Through this programme, alumni can keep pace with technological advancements in engineering and science while understanding its implications on the world and specifically for their businesses. It also serves as a forum for cross pollination of ideas, learnings and experiences amongst alumni who come from varied industries and backgrounds. This programme serves as a channel to connect the alumni community to the Institute.

In accordance with the MOU, Dr. Chaudhari will provide a one-time donation towards the ACE programme. IIT Bombay will provide a dedicated space for the programme, which will be branded as 'PCACEC' (Pramod Chaudhari Alumni Continuing Education Centre).

Dr. Pramod Chaudhari has been a passionate supporter of the Institute. He established the 'Parimal

and Pramod Chaudhari Centre for Learning and Teaching' (PPCCLT) in 2019. Earlier in 2015, he helped set up DBT-PAN IIT Centre For Bioenergy. In addition, Praj Industries has helped set up a BioProcessing Laboratory in 2019, two Chair Professorships in the areas of Green Chemistry and Industrial Biotechnology and Energy Science and Engineering, respectively, as well as awards for recognising academic excellence amongst students.

Speaking about this partnership, **Prof. Subhasis Chaudhuri**, Director, IIT Bombay said, "*IIT Bombay's alumni are our valued ambassadors. Our mission to achieve excellence together can only be furthered if there is continuous interaction between the Institute and its alumni. Thanks to Dr. Chaudhari's generous support, this resolve has been made stronger. I am certain that together we will be able to create a community of mutual learning and growing*".

Speaking about this collaboration, **Dr. Pramod Chaudhari** said, "*I am extremely delighted to note that IIT Bombay has embarked upon the formation of "Alumni Continuing Education" programme, which is probably the first-of-its-kind amongst the IITian fraternity and the most innovative concept. With a structured framework in place, I have no doubt that "Alumni Continuing Education" programme will be a great success and will be instrumental in attaining further laurels for IIT Bombay*".

## Director Of IIT Bombay Receives ACCS Award



**Prof. Subhasis Chaudhuri**, Director of IIT Bombay, has received the Advanced Computing and Communications Society (ACCS) Award for the year 2021. The award recognizes his outstanding research in the area of Computer Vision and Computational Photography.

## Deputy Director (Academic and Infrastructural Affairs) Selected As A Fellow Of IEEE, USA



Deputy Director (Academic and Infrastructural Affairs) **Prof. S. Sudarshan**, Department of Computer Science and Engineering, has been selected as a **Fellow of IEEE, USA**. Fellowship of IEEE is a very coveted recognition globally for researchers in the area of electrical and computer science engineering.

## Institute Signs MoUs With INOXCVA



Mr. Siddharth Jain, Executive Director, INOX Group and Prof. S. Sudarshan, Deputy Director (Academic and Infrastructural Affairs) while signing of the MoU

The Indian Institute of Technology Bombay signed **Memorandums of Understanding (MoUs)** on December 4, 2021, for various initiatives with **INOX Group of Companies**. The group has offered INOX scholarships to IIT Bombay's academically-distinguished students, who may be financially constrained to pursue their education.

In addition to this, the INOX group will provide facilities to support Cryogenics research at IIT Bombay by upgrading the Cryogenics Laboratory and supporting the purchase of additional equipment for the research facility. The laboratory will be renamed as **"INOX Cryogenics Research Laboratory"**.

## Three Chair Professorships To Be Established At IIT Bombay

The Indian Institute of Technology Bombay is in the process of establishing **three Chair Professorships** with generous donations from its alumni - **Mr. Pankaj Jagtap**, **Mr. Deepak Kotwal** and from the **INOX Group**.

*Details of the proposed three Chair Professorships are as follows:*

- **Mr. Pankaj Jagtap** (1995 batch) completed his B.Tech. degree from the Department of Civil Engineering and his generous donation will help set up the **"Anantrao Jagtap Chair for Construction Management"**.
- **Mr. Deepak Kotwal** (1970 batch) completed his B.Tech degree from the Department of Mechanical Engineering and his generous donation will help set up the **"Sumati and Atmaram Kotwal Sanskrit Acharya Chair"**.
- The **INOX Group** will set up the **"INOX Chair in Cryogenics"**.

The **'Chair Professor'** - also known as endowed professorships - is one of the highest honours awarded to professors in academia for excellence in teaching and research. Faculty members at IIT Bombay who pursue high-impact, innovative and cutting-edge research and teaching are awarded these prestigious Chair Professorships. The Chair Professorship also allows the Institute to retain the best of faculty and attract the crème de la crème of students to the Institute. The selection procedure at IIT Bombay is rigorous and is in accordance with the selection procedures laid down by the Board of Governors of the Institute.

### Anantrao Jagtap Chair for Construction Management

On October 27, 2021, a **Memorandum of Understanding (MoU)** was signed between **IIT Bombay**, **IIT Bombay Heritage Foundation** (a US-based non-profit public benefit corporation dedicated to promote education and research among students of IIT Bombay) and **Mr. Pankaj Jagtap**, SVP, Professional Services at HighRadius Corporation, for the creation of a **Chair Professorship in the Department of Civil Engineering**.

The Chair Professorship will identify and support faculty with exceptional understanding of research, and pedagogy in the area of indigenous accurate, low-cost and efficient construction management.

The primary objective of the Chair Professorship is to attract young and talented faculty members from all over the world. This initiative will provide them with a platform and financial support to build a world-class programme in Construction Management with the eventual goal of making the Construction Management program at IIT Bombay pre-eminent in the country and internationally.

Talking about the Chair Professorship, **Mr. Jagtap** said, *"The chair professorship is established in the memory of my late father Shri. Anantrao Jagtap, who was also a Civil Engineer and passionate about the field of Construction Management. The Chair Professorship is established partly to give back to the country that has given so much to all IITians, giving back to the Institute that provided the environment and opportunities to build our character in those formative years, and the Department that gave me opportunity to pursue my passion in the field of Construction Management. I am hopeful this Chair Professorship will attract the best and the brightest talent to IIT Bombay and help build a world-class programme that will not only attract future leaders in construction management but also create an ecosystem of academia, research and industrial collaboration that will help the country build necessary infrastructure to support economic growth"*.

#### **Sumati and Atmaram Kotwal Sanskrit Acharya Chair**

On November 4, 2021, an **MoU** was signed between **IIT Bombay, IIT Bombay Heritage Foundation (IITBHF)** and **Mr. Deepak Kotwal** for the creation of a **Chair Professorship to support the Cell for Indian Science and Technology in Sanskrit**.

This Chair Professorship will promote the pursuit of education pertaining to Science and Technology in Sanskrit. The Chair Professorship will be granted to an eminent faculty member at IIT Bombay who has an excellent track record of research in the scientific and technological traditions of India in Sanskrit.

The Chair Professorship will support the selected faculty member to conduct extensive research and translational work in the area of Indian knowledge systems and practices ingrained in ancient texts (most of which are in Sanskrit); conduct scholarly studies in knowledge systems pertaining to exact and applied sciences; disseminate authentic knowledge among academicians as well as the public at large

and make them aware of the rich scientific heritage of India.

Speaking about the initiative, **Mr. Kotwal** said, *"IIT Bombay was established in 1958, and during my undergraduate education, there was no academic unit that promoted teaching and research related to Sanskrit studies. Now that the Cell for Indian Science and Technology in Sanskrit has been successfully operating for almost two decades, the establishment of this chair fulfills two objectives of mine in a small way: 1. Paying back my debt to IIT Bombay and 2. Supporting the research work in the field of Sanskrit studies. I have named the Chair Professorship in my parents' name. May the Almighty ensure continued success to IIT Bombay as well as the Cell for Indian Science and Technology in Sanskrit forever"*.

#### **INOX Chair in Cryogenics**

On December 04, 2021, an **MoU** was signed between **IIT Bombay** and the **INOX Group** for the creation of a Chair Professorship to conduct research in the field of Cryogenics at IIT Bombay. The Chair Professorship will be granted to an eminent professor from the Institute with an excellent track record of research in Cryogenics.

The Chair Professorship aims to facilitate advanced research and encourage IIT Bombay to take up challenging projects related to Cryogenics so that it emerges as a global leader in the field. The initiative will also leverage the existing knowledge base on the same and provide a platform for further innovation.

Talking about the Chair Professorship, **Mr. Siddharth Jain**, Executive Director, INOX Group said, *"With a Chair Professorship for Cryogenics at IIT Bombay, we are excited about advancing research in the Cryogenics space, which would not only take the industry further but would also aid innovation in various industries. INOX Group has always endeavored to play a role in taking India's growth story forward with its progressive solutions. We are thankful to India's premier technology Institute for giving us this opportunity"*.

Speaking about the establishment of the Chair Professorships at the Institute, **Prof. Subhasis Chaudhuri**, Director, IIT Bombay said, *"IIT Bombay's vision is to be amongst the top 50 universities in the world. This is only possible when experienced and high-calibre individuals are encouraged to impart their wisdom and carry forward various academic fields and facilitate learning. I thank Mr. Jagtap, Mr. Kotwal and the INOX Group for their generous contributions to set up the Chair Professorships at IIT Bombay. These initiatives will bring IIT Bombay one step closer towards fulfilling its vision and mission"*.

## SJMSOM Inaugurates A World-Class Facility For Its Joint EMBA Program With Washington University In St. Louis



Dr. Shailesh Mehta and Mrs. Kalpa Mehta inaugurating the Executive Education Complex

**Dr. Shailesh Mehta**, alumnus of IIT Bombay and his wife **Mrs. Kalpa Mehta**, inaugurated the **Executive Education Complex** on the fourth floor of the Shailesh J. Mehta School of Management (SJMSOM) at IIT Bombay. The event was attended by **Prof. Subhasis Chaudhuri**, Director, IIT Bombay, **Prof. Prasanna M. Mujumdar**, former Deputy Director (Finance and External Affairs), **Prof. K.V.K. Rao**, current Deputy Director (Finance and External Affairs), **Prof. S. Sudarshan**, Deputy Director (Academic and Infrastructural Affairs), **Prof. Suhas Joshi**, Dean (Alumni and Corporate Relations), **Mr. Ravishankar Gedela**, CEO, Development and Relations Foundation, **Mr. Gopal Shukla**, CEO of the joint venture between IIT Bombay and Washington University in St. Louis, **Prof. S. N. Rao**, Head, School of Management and **Prof. Rohan Chinchwadkar**, Assistant Professor of Finance, SJMSOM. It is a landmark moment for the globally-recognised business school. Equipped with state-of-the-art infrastructure that includes climate-controlled classrooms, breakout rooms, lounges, a faculty room, a conference room and multimedia facilities that augment the learning experience of students, the world-class Executive Education Complex has been designed specifically to conduct the joint Executive MBA program offered by SJMSOM, IIT Bombay and the Olin Business School at Washington University in St. Louis.

Addressing the gathering at the inauguration of the Executive Education Complex at SJMSOM, **Mr. Shailesh Mehta** said, *"The Shailesh J. Mehta School of Management has strived to achieve global reputation through its highly qualified faculty, high-calibre students and facilities offered. Our vision is to become a premier management school in Asia by ensuring that the SJMSOM is a world-class facility at IIT Bombay campus and to nurture the strong talent pool of students here to become future leaders. I am grateful that we are doing our bit to bridge the gap of India's growing need for qualified leaders as it becomes a major global economy"*.

On this occasion, **Prof. Subhasis Chaudhuri**, **Director**, IIT Bombay said, *"IIT Bombay is committed to creating an environment that can nurture innovation, creativity and excellence amongst students and the Executive Education Complex at SJMSOM is a definitive step in this direction. With its world-class amenities and faculty, I am confident that this complex will promote experiential learning in a significant way. IIT Bombay expresses its gratitude to Dr. Shailesh Mehta and Ms. Kalpa Mehta for their generous contribution towards the management school thereby ensuring that the Institute creates a mark not only in the field of engineering but also in management education"*.

## IITBAA Celebrates Its Two Decades Journey

The **IIT Bombay Alumni Association (IITBAA)** was founded two decades ago on July 17, 2001 to serve IIT Bombay and its alumni. Since then, the association has been committed to forging lifelong connections between the Institute's alumni and keeping them involved and invested in their alma mater.

Alumni's willingness to share their time and experience has helped the Institute to stay true to its mission. During the celebration, IITBAA appreciated the alumni's efforts for the Institute.

To commemorate 20-year long relationship, IITBAA had planned a virtual get-together on Saturday, October 23, 2021. The programme highlighted the memorable aspects of the IIT Bombay experience and IITBAA's two-decade journey as narrated through the voices of distinguished alumni, faculty members and past and present generation of students.

The highlights of the celebration included sharing of leadership stories by notable alumni such as **Mr. Ashank Desai** ('74) and **Mr. Nandan Nilekani** ('78), a musical performance by **Y-point Orchestra** and an IIT Bombay-based fun quiz. The IIT Bombay Director **Prof. Subhasis Chaudhuri** and Dean ACR **Prof. Suhas Joshi** also graced the occasion.



## Institute Celebrates Constitution Day



As part of 'Azadi Ka Amrit Mahotsav', India celebrated **Constitution Day** on November 26, 2021. The Hon'ble President of India led the celebrations from the Central Hall of Parliament. IIT Bombay Director **Prof. Subhasis Chaudhuri** also participated along with faculty, staff and students in reading the Preamble to commemorate the Constitution Day.

*Director of IIT Bombay Subhasis Chaudhuri leading the Institute staff in reading of the Preamble in the Main Building foyer*

## Institute Observes Birth Anniversary of Mahatma Gandhi



IIT Bombay observed the **152nd birth anniversary of Mahatma Gandhi**. IIT Bombay functionaries including Director of IIT Bombay **Prof. Subhasis Chaudhuri**, former Deputy Director (Finance and External Affairs) **Prof. P. M. Mujumdar** and former Registrar **Dr. R. Premkumar** garlanded the photo of Gandhiji and paid tributes to the Father of the Nation in the foyer of the Main Building of the campus on October 02, 2021 following COVID-19 guidelines.

*Institute functionaries pay homage during birth anniversary of Mahatma Gandhi*

## Institute Observes Vigilance Awareness Week



Institute's staff members taking 'Integrity Pledge' to promote probity in public life

To observe **Vigilance Awareness Week** from October 26 - November 1, 2021, IIT Bombay staff took a pledge to promote probity in public life and to achieve a corruption-free society on October 26, 2021 in the Main Building of the campus. '**Integrity Pledge**' was administered to employees of IIT Bombay in Hindi by **Mr. G. Bhorkade**, Joint Registrar (Material Management) and in English by **Prof. Subhasis Chaudhuri**, Director, IIT Bombay on the ground floor foyer of IIT Bombay's Main Building. The pledge was administered keeping in view the COVID-19 social distancing and other guidelines. IIT Bombay staff pledged to foster a culture of honesty and integrity and to remain committed to good corporate governance-based transparency, accountability and fairness. The theme of the Vigilance Awareness Week this year was '**Independent India @75 Self Reliance With Integrity**'. The Vigilance Cell of IIT Bombay had also organised essay writing competitions for the campus community on the topic '**Independent India@75: Way Forward**'.

## TCE And IIT Bombay Collaborates To Develop And Deploy Technologies



Signing of MoU by Mr. Amit Sharma, CEO of TCE and Prof. Subhasis Chaudhuri, Director of IIT Bombay

**IIT Bombay and Tata Consulting Engineers Limited (TCE)** have signed a **MOU** on December 13, with an aim to promote meaningful collaboration between academia and industry for developing and deploying technologies in various areas of impact.

The interaction envisages the license of intellectual property/ technologies developed at IIT Bombay or through collaborative R&D with TCE, to external agencies. The two organisations will also use their complimentary expertise and take up R&D projects to develop/ solve specific problems of industry.

**Mr. Amit Sharma**, CEO of TCE and **Prof. Subhasis Chaudhuri**, Director of IIT Bombay signed the MoU in presence of **Prof. Milind Atrey**, Dean (Research and Development) and teams from IRCC (IIT Bombay) and TCE. Interactions have already been initiated towards solving urgent needs for Covid-19 mitigation.

## Institute Celebrates Rashtriya Ekta Diwas

Indian Institute of Technology Bombay observed **Rashtriya Ekta Diwas (National Unity Day)** on October 31, 2021 following COVID-19 guidelines. National Unity Day is celebrated to commemorate the birth anniversary of 'Iron Man of India' **Sardar Vallabhbhai Patel**.

The '**Unity Run**' was conducted offline for all residents present on

campus by the Institute Sports Council. The event was held in two phases: cycling and running. It was a category-based event, each for boys and girls. The event was fully COVID-19 protocol friendly and participants and the organizing team were masked up, maintaining distance at all times with crowds. Safety precautions were taken care of with fully-equipped first-aid kits. Routes

were laid around the campus with the running route spanning over 3.5 kilometres for men and two kilometres for women. The cycling route was six kilometres long for men and four kilometres for women. Both the routes were gruelling with a major uphill but the participants ached against the odds and came out in flying colours.



*The Unity Run conducted on the occasion of National Unity Day in IIT Bombay campus*

Kendriya Vidyalaya IIT Powai conducted various competitions and activities for the students keeping in view the COVID-19 guidelines and precautionary measures. Activities related to the life of Sardar Vallabhbhai Patel included unity pledge, slogan writing, essay writing, drawing/ poster making and power point presentation on the life and contribution of Sardar Vallabhbhai Patel.

### Slogan writing

Winners	STD	Student Name
1st Rank	STD - VIIB	Devika Pillai
2nd Rank	STD - VIIB	Arushi Jimkal

### Essay writing

1st Rank	STD – IX -D	Anushree Kumbhar
2nd Rank	STD – IX-D	Harshada Ingle
3rd Rank	STD – IX-A	Kriday Mishra

### Drawing / Poster making

1st Rank	STD - VIII D	Aditi Ghawali
1st Rank	STD-VI B	Avanish Amit Pai
2nd Rank	STD -VIII D	Sagarika Kumari
2nd Rank	STD-VIII D	Vidhi More
3rd Rank	STD -VI B	Aarohee Thube

The IIT Campus School and Junior College Powai organized various activities to celebrate National Unity Day. Activities related to the life of Sardar Vallabhbhai Patel such as slogan writing, essay writing, drawing/ poster-making, speech competition, poetry recitation, were held across different age groups online. The students showcased their creative side enthusiastically by participating in various competitions.

### Slogan writing

Winners	STD	Student Name
1st Rank	STD - I	Gupta Shorya Kamles
2nd Rank	STD - II	Pandey Akshat Devideen
3rd Rank	STD - VII	Shaikh Suzan Arif

### Essay writing

1st Rank	STD – IX - A	Singh Archana Amar
2nd Rank	STD - IV	Kale Gauri Keshav
3rd Rank	STD - III	Mishra Yash Jayshankar

### Drawing / Poster-making

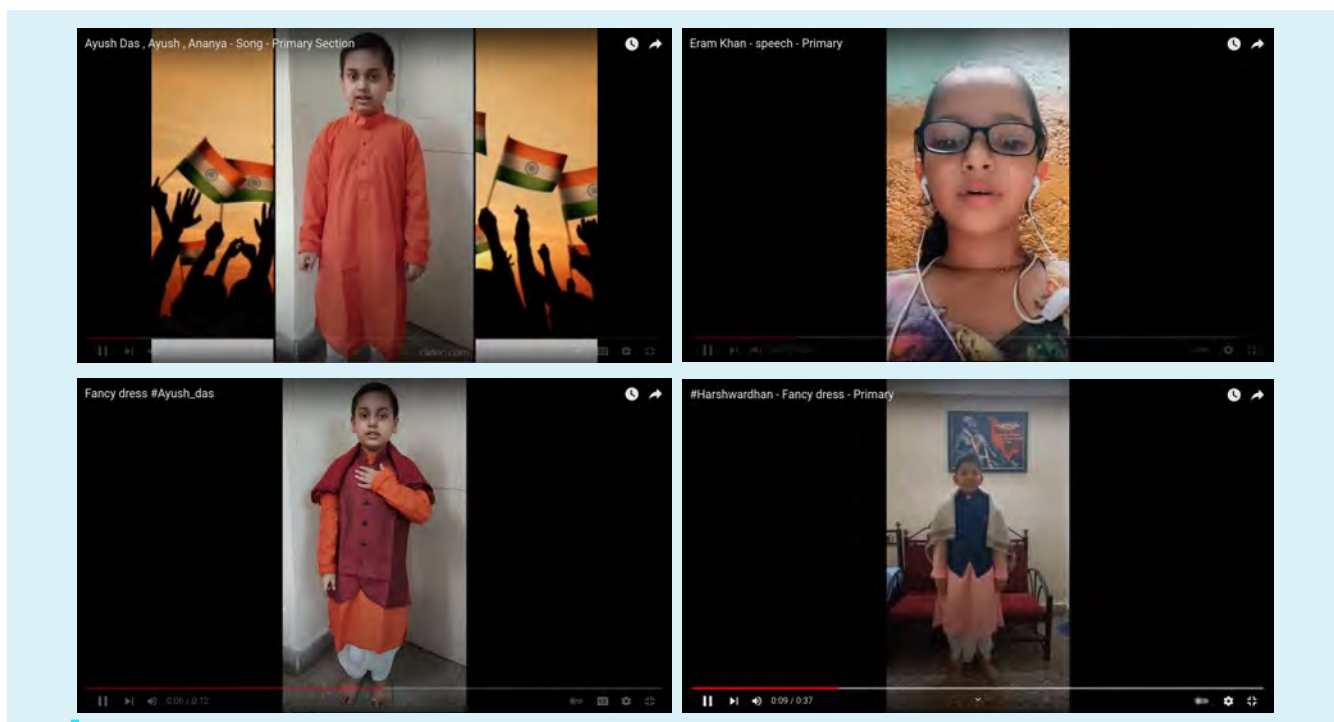
1st Rank	STD - IV	Dasbiswas Ayush Shumen
2nd Rank	STD - XII	Raut Siddhesh
3rd Rank	STD - II	Jagtap Kabir Vinod

### Poem

1st Rank	STD IV	Pandey Ananya Devideen
2nd Rank	STD III	Mishra Yash Jayshankar
3rd Rank	STD VIII	Kamble Aaditi Rajendra

### Speech

1st Rank	STD XII	Suvi Shreelakshmi Ganeshan
2nd Rank	STD XI	Panda Amar Niranjan
3rd Rank	STD I	Madkaikar Dhruvika Varun

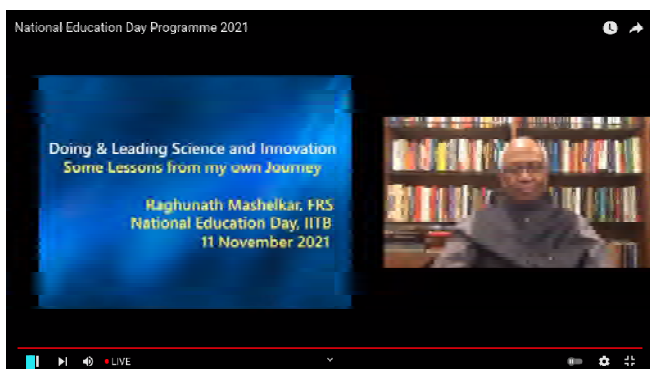


Cultural performances by students of IIT campus school on occasion of National Unity Day

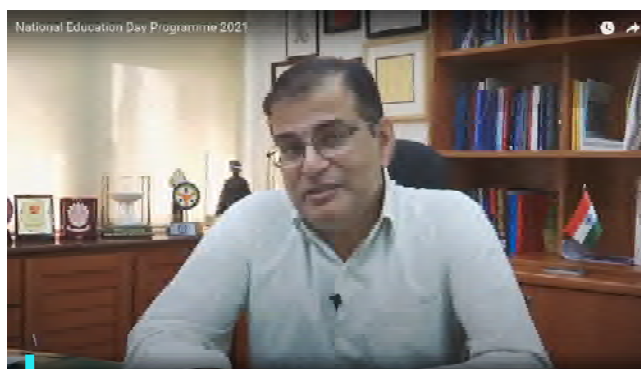
Rashtriya Ekta Diwas (National Unity Day) pledge was administered online and offline by the Campus School & Jr. College students and Kendriya Vidyalaya IIT Powai.

## Institute Celebrates National Education Day

IIT Bombay commemorated the birth anniversary of India's first education minister of independent India, **Maulana Abul Kalam Azad** by observing **National Education Day (Rashtriya Shiksha Diwas)**. The Institute had organised the **National Education Day programme (online)** on November 11, 2021, where the **IIT Bombay Research Excellence Awards 2020** were conferred on faculty member awardees. **Dr. R.A. Mashelkar**, a recipient of prestigious awards such as Padma Shri, Padma Bhushan, Padma Vibhushan, Shanti Swarup Bhatnagar Prize for Science and Technology and a member of numerous scientific bodies and committees, was the Chief Guest on the occasion. **Dean (R&D) Prof. Milind Atrey** presented the Research Excellence Awards to the awardees.



Eminent Scientist Dr. R.A. Mashelkar speaking during National Education Day programme (online) organised by IIT Bombay



Director of IIT Bombay Prof. Subhasis Chaudhary speaking during the event

## Institute Holds Award Lecture Series

The Institute's Research and Development (R&D) Office organized a two-day lecture series during November 1-2, 2021 where the recipients of the **IIT Bombay Research Awards**, **Prof. Krithi Ramamritham Creative Research Award for the year 2020** and the **Dr. Shanti Swarup Bhatnagar Prize for Science and Technology** were invited to present their research works.

Following award recipients presented their talk during the lecture series.

Research Publication Award	
Speaker	Title
<b>Prof. Anirban Banerjee</b> , Department of Biosciences and Bioengineering	Why make enemies if we can be friends?
<b>Prof. Debabrata Maiti</b> , Department of Chemistry	Remote para-C-H functionalization of arenes by a D-shaped biphenyl template-based assembly
<b>Prof. Nagendra R. Velaga</b> , Department of Civil Engineering	Human Factors in Intelligent Transportation Systems: Distraction due to mobile phone during driving
<b>Prof. Anurag Garg</b> , Environmental Science and Engineering Department	Recovery of Value-added Materials from Sewage Sludge
<b>Prof. Sandip K. Saha</b> , Department of Mechanical Engineering	Packed bed latent heat thermal energy storage: Advancement in the modeling and analysis

Impactful Research Award	
Speaker	Title
<b>Prof. Samir K Maji,</b> Department of Biosciences and Bioengineering	Designer amyloid hydrogels for bio-(nano) technological applications
<b>Prof. Ruchi Anand,</b> Department of Chemistry	Strategies to Combat Drug Resistance
<b>Prof. Avik Bhattacharya,</b> Centre of Studies in Resources Engineering	Radar Remote Sensing: Theory and Applications

Research Dissemination Award	
Speaker	Title
<b>Prof. Suvarn S. Kulkarni,</b> Department of Chemistry	Recent advances in synthesis of bacterial rare sugar building blocks and their applications
<b>Prof. Atul Sharma,</b> Department of Mechanical Engineering	Discrete (independent of Continuous) Math-Based Computational Fluid Dynamics

Early Research Achiever Award	
Speaker	Title
<b>Prof. Achintya Kumar Dutta,</b> Department of Chemistry	Excited State Quantum Chemistry in the Presence of An Environment
<b>Prof. Amrita Bhattacharya,</b> Department of Metallurgical Engineering and Materials Science	Combining statistical learning methods with first principles to predict physical models for solids
<b>Prof. Biplab Banerjee,</b> Centre of Studies in Resources Engineering	Learning under lack of supervision

Prof. Krithi Ramamritham Award for Creative Research	
Speaker	Title
<b>Prof. Abir De,</b> Department of Computer Science and Engineering	Data Subset Selection to Enhance Learning Under Triage

Dr. Shanti Swarup Bhatnagar Prize for Science and Technology	
Speaker	Title
<b>Prof. Rohit Srivastava,</b> Department of Biosciences and Bioengineering	Affordable Healthcare Technologies

## IIT Bombay Celebrates Hindi Pakhawada 2021

The Institute celebrated 'Hindi Pakhawada' online during September 1-14, 2021. As part of the celebrations, an online essay writing competition was organized to encourage the staff members to use Hindi in daily official work. The winners of an online essay writing competition, held for the staff and students of the Institute, were felicitated with certificates and cash awards. The staff members, who contributed best in Hindi official work, were also felicitated on the occasion.

An online **Hindi workshop** was also organized for the staff members of the Institute on September 6, 2021. **Mrs. Gargi Gadgil**, Principal, Hindi Teaching Scheme conducted a Hindi workshop on '**Constitutional Provision of Official Language and The Official Languages Act 1963**'. Over 35 staff members attended the workshop.

### Following are Hindi Essay Competition winners:

#### (Staff members)

*First* - Jitendra Kumar Jain  
*Second* - Raoji Suresh Paradkar  
*Third* - Dr. Swastika Bathia  
*Consolation* - Patmesh R Keelat  
*Consolation* - Ashish Patil  
*Consolation* - Aarti Bhagat  
*Consolation* - Nivedita Dolari

#### (Students)

*First* - Prashant Trivedi  
*Second* - Rajan Rahul  
*Third* - Shivangi Sharma  
*Consolation* - Sumit Kumar  
*Consolation* - Priya

### Following are the staff award winners for doing official work in Hindi

Name	Department/ Section/ Office
Rameshwar S. Hivale	JEE UCEED office
Jaya Ravi Karwanje	HR-2 (HCM-1)
Madhura Vinayak Shingade	HR-2 (HCM-1)
Soham Sikdar	HR-2 (HCM-1)
Akshata Rajesh Nandoskar	HR-2 (HCM-1)
Rajshree Gangaram Ghedag	HR-2 (HCM-2)

Aashirwad, country's premier socio, cultural and literary organization held its 29th Annual Rajbhasha Awards Festival on 29th September, 2021, at Raj Bhavan in Mumbai. IIT Bombay won an award for its Hindi implementation. Honorable Governor of Maharashtra Mr. Bhagat Singh Koshyari, who attended the ceremony as the Chief Guest, presented the awards.



Former Registrar Dr. R. Premkumar and Hindi Officer Ms. Vaishali Bahulkar received award on behalf of IIT Bombay for Hindi implementation from Honorable Governor of Maharashtra Mr. Bhagat Singh Koshyari

## Research in focus

## Graphene Valleytronics: Paving the Way to Small-Sized Room-Temperature Quantum Computers

Scientists find a way to use pristine graphene in valleytronics, a promising technology for encoding and processing quantum information.

Valleytronics is an emerging field in which valleys—local minima in the energy band structure of solids—are used to encode, process and store quantum information. Though graphene was thought to be unsuitable for valleytronics due to its symmetrical structure, researchers from the Indian Institute of Technology Bombay, India, have recently shown that this is not the case. Their findings may pave the way to small-sized quantum computers that can operate at room temperature.

From the consumer's side, it's pretty easy to notice the giant strides that the field of electronics has made over the past few decades; with wearable gadgets, smart cities, self-driving cars, improved space missions, robots, holography and supercomputers, the possibilities of technological advancement seem infinite. However, unbeknownst to most people, this accelerated trend of technological advancement fueled by electronics is rapidly coming to a halt as electronic components reach their practical limits. If we are to keep improving our computing power and capacity, we will need to find new ways to store and process data beyond the simple flow and charge of electrons, which is how modern electronics operate.

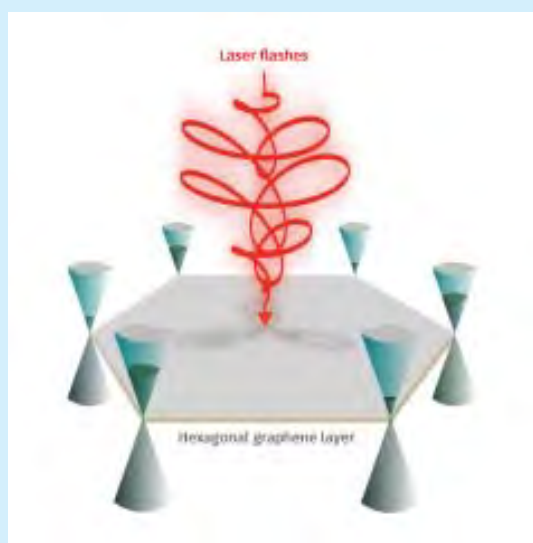
That is why quantum computers have recently become a hot topic. By encoding information in quantum phenomena, quantum computers transcend the binary notion of each bit being either "0" or "1." Instead, quantum bits exist as superpositions of "0" and "1" and can therefore take intermediate values. By exploiting superpositions through carefully designed algorithms, quantum computers could theoretically outperform conventional computers by several orders of magnitude in terms of speed. Sadly, it has proven difficult to find suitable quantum phenomena to encode information at room temperature. Existing computers, such as those owned by Google, IBM and Microsoft, have to be kept at ultralow temperatures below  $-196.1^{\circ}\text{C}$ , which makes them costly and impractical to operate.

Fortunately, there is a very promising approach for encoding quantum information that is actively being explored: valleytronics. Aside from their charge, electrons have another parameter that can be manipulated, namely their "valley pseudospin," which is the valley that the electron occupies. These so-called valleys are local minima in the energy bands of solids, which dictate the energetic state and location of electrons. Valleys, with their occupation state governed by quantum mechanics, can be used to encode, process and store quantum information at less restrictive temperatures.

Recently, a team of scientists from the Indian Institute of Technology (IIT) Bombay, India and Max-Born Institut, Germany, achieved a breakthrough in the field of valleytronics. In their latest study, published in *Optica*, they present a way to perform valley operations in monolayer or pristine graphene, which was assumed to be impossible by other researchers in the field. As the poster child of carbon nanomaterials, graphene is made from carbon atoms in a hexagonal pattern and bears a plethora of favorable properties. Atomically thin layers of graphene have electron valleys but, due to the material's inherent symmetry, they were deemed useless for valley operations.

Despite the odds, the team came up with a strategy to break graphene's valley symmetry using light. Associate Professor, **Prof. Gopal Dixit** from IIT Bombay, who led the study, explains: "*By tailoring the polarization of two beams of light according to graphene's triangular lattice, we found it possible to break the symmetry between two neighboring carbon atoms and exploit the electronic band structure in the regions close to the valleys, inducing valley polarization*". In other words, this enables the use of graphene's valleys to effectively "write" information. Prof. Dixit also highlights that the flashes of light can cause electrons to wiggle several hundred trillion times a second. In theory, this means valleytronics at petahertz rates is possible, which exceeds modern computational speeds by a million times.

One of the most attractive aspects of conducting valley operations in graphene is that it's possible to do so at room temperature. "*Our work could open the door to miniature, general-purpose quantum computers that can be used by regular people, much like laptops*," remarks Prof. Dixit. With the higher computational speeds provided by quantum computers, it will be much quicker to perform molecular simulations, big data analysis, deep learning and other computationally intensive tasks. In turn, this will accelerate the development of new drugs and the elucidation of molecular structures, which will help in the search for cures to complex diseases including COVID-19. Let us hope this study helps quantum computers arrive in our lives sooner!



**Authors** : M. S. Mrudul, Álvaro Jiménez-Galán, Misha Ivanov and Gopal Dixit

**Image credit** : Gopal Dixit from IIT Bombay

**Link to published work:** <https://www.osapublishing.org/optica/fulltext.cfm?uri=optica-8-3-422&id=449329>

## Abhyuday Organizes Blood Donation Camp



Blood donation drive by Abhyuday

IIT Bombay's **Abhyuday** team held a '**Blood Donation Drive**' along with the support of **Sthaniya Lokadhikar Samiti** and **KEM Hospital** in the Convocation Hall, IIT Bombay on October 16, 2021. The blood collected during the camp has the potential to save around 948 lives. Dedicated slots were given to donors keeping in mind the COVID-19 guidelines.

## Energy Swaraj Foundation Receives India Green Energy Award



Prof. Chetan Singh Solanki, Department of Energy Science and Engineering, IIT Bombay receiving the award from Hon'ble Minister, Mr. Nitin Gadkari, Minister of Road Transport & Highways, Govt. of India

The **Energy Swaraj Foundation** by **Prof. Chetan Singh Solanki**, Department of Energy Science and Engineering has been awarded the **India Green Energy Award** under the '**Outstanding Green Campaigner – Organization**' at the Third Edition of India Green Energy Award 2020. India Green Energy Awards is an initiative of **Indian Federation of Green Energy (IFGE)** to recognize and highlight the impact and importance of Green Energy for the future of humankind.

The award ceremony was held in New Delhi with Hon'ble Minister, **Mr. Nitin Gadkari**, Minister of Road Transport & Highways, Govt. of India as the Chief Guest. **Mr. Bhagwanth Khuba**, Hon'ble Minister of State, New and Renewable Energy and Chemicals and Fertilizers was the Guest of Honour.

The Foundation initiates the establishment of **Energy Swaraj** to provide energy solutions by locals for locals. It is an important solution for mitigating climate change.

## Campus Resident Sets Two New National Records



**Apeksha Fernandes**, daughter of Prof. B.G. Fernandes, Department of Electrical Engineering, has set two new **national records** in swimming in the recently held Junior and Senior National Aquatic Championships held at the Basavanagudi Aquatic Centre in Bengaluru during October 19-29, 2021.

In the **Junior National Aquatic Championship**, she **won 3 gold medals** with 2 national records and 1 silver medal in the individual events and a silver medal in the team event (relay). She also won the individual champion trophy (Group-1 girls 15-17 years category).

In the **Senior National Aquatic Championship**, she **won 3 gold and 2 silver medals** in the individual events and the individual champion trophy. In addition, she was a member of the 4\*100m medley relay team which won the gold medal for Maharashtra. In all, she won 7 gold and 4 silver medals.

## Farewell Ceremony of Registrar Dr. R. Premkumar



Farewell ceremony of Registrar Dr. R. Premkumar



Registrar **Dr. R. Premkumar** retired on November 30, 2021 after seven years of dedicated service to IIT Bombay. The farewell function was attended by the Director of IIT Bombay **Prof. Subhasis Chaudhuri**, former Director **Prof. Devang Khakhar**, Deputy Director (Academic and Infrastructural Affairs) **Prof. S. Sudarshan**, Deputy Director (Finance and External Affairs) **Prof. K. V. Krishna Rao**, former Deputy Director (Finance and External Affairs) **Prof. P.M. Mujumdar**, former Deputy Director (Academic and Infrastructural Affairs) **Prof. A.K. Suresh**, Dean (Administrative Affairs) **Prof. S. V. Kulkarni**, current acting Registrar **Mr. G.K. Bhorkade** and Joint Registrar, HR-2 (HCM & Payroll) and IoE Cell **Mr. K.V. Reghuthaman** along with few Institute faculty and staff.

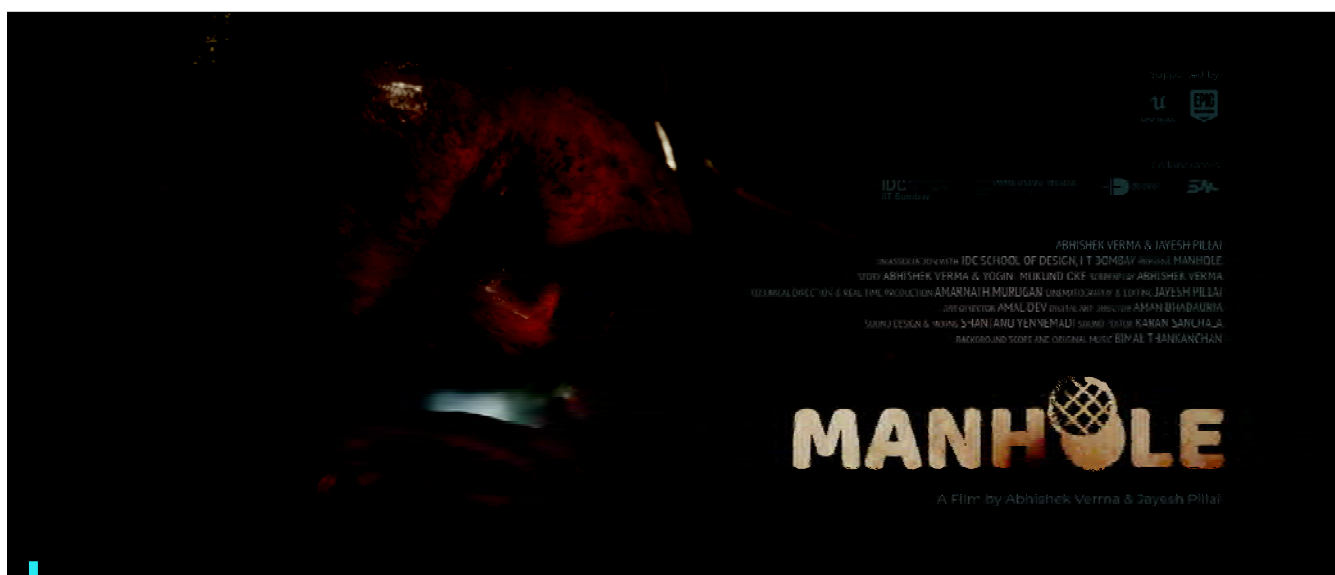
## Business Sweden And IIT Bombay Collaborates For eMobility And Smart Grids Space



Business Sweden and IIT Bombay dignitaries while Signing of LOI

As part of industry outreach efforts, **The Swedish Trade and Invest Council (Business Sweden)** and **IIT Bombay** signed a **letter of Intent (LoI)** for collaboration in the Electric Mobility and Smart Grids space. The LoI was signed by **Ms. Cecilia Oskarsson**, Trade & Invest Commissioner of Sweden to India and **Prof. A.M. Pradeep**, Associate Dean (R&D), IIT Bombay. The signing ceremony was witnessed by **Ms. Anna Lekvall**, Consul General of Sweden in Mumbai, **Mr. Ludvig Lindstrom**, Country Manager - India, Swedish Energy Agency and **Prof. K.V.K. Rao**, Deputy Director (Finance and External Affairs), IIT Bombay.

## 'Manhole' Wins In Unreal Engine's Shorts India Program



Poster of *Manhole*, a 3D animated short film

An alumnus of IDC School of Design, IIT Bombay **Mr. Abhishek Verma**, **Prof. Jayesh Pillai** (IDC School of Design) and **Manhole Collective** won an award for their film '**Manhole**' in **Unreal Engine's Shorts India Program**. The four-month program had fourteen teams of established studios and artists compete to make a short film. '**Manhole**' is a 3D animated short film that attempts to communicate the difficulties and inhumanity faced by manual scavengers in India. The distinguished jury from the Indian film industry consisted of **Mr. Ayan Mukerji**, **Mr. Dibakar Banerjee**, **Mr. Bharat Bala**, and **Ms. Karen Dufilho-Rosen**.

'**Manhole**', the 3D animated short film is a cinematic precursor to larger experiential narratives - a VR film, and a feature-length superhero film. The project team started forming in January 2020, which further expanded to be called the Manhole Collective. The collective's objective was to create an experiential narrative that would communicate the difficulties and inhumanity being faced by manual scavengers in India, hoping to ignite conversations and spread awareness about this topic. The aim was to highlight the dangers they face while entering hazardous manholes without any safety equipment or protective gear and the numerous deaths that occurred over the years.

**Mr. Abhishek Verma**, an alumnus, is an independent animator and filmmaker who won the National Award for best animation film in the 65th National Film Awards of India, for his 2D animation short *Maacher Jhol* (The Fish Curry). **Prof. Jayesh Pillai**, Associate Professor at IDC School of Design, IIT Bombay heads the IMXD Lab which conducts design and

research explorations in the area of immersive media and connected domains. They co-directed the film '**Manhole**' by forming the core team for the Manhole Collective, along with **Mr. Amarnath Murugan** as the technical director and **Mr. Amal Dev** as the art director.

**Mr. Aman Bhaduria** and his team at Deckor joined the collective to create the mini 'Delhi street' that is seen in the film, through realistic 3D assets. **Mr. Shantanu Yennemadi**, a prolific sound editor, joined the collective and made the film immersive through his sound design. Few students and alumni of IIT Bombay, especially from the School of Design, also contributed to the final outcome. Together the team was able to create a cinematic narrative that hopes to leave an impact in the minds of the audience. The team is now looking forward to working on the VR version of the narrative.



## Annual Training Camp of NCC Cadets



After a gap of one year, the most awaited event in NCC, the **Annual Training Camp** was conducted on campus. The **‘Combined Annual Training Camp (CATC) 419’** started on November 29, 2021. The cadets were divided into three teams which competed in sports tournaments, drills competition, debating and a mega treasure hunt that involved various stages like an obstacle course and map reading.

A **‘Blood Donation Camp’** was also organized and cadets also registered themselves as stem cell donors. The final day saw cultural performances of music, dance and drama for which cadets had been preparing throughout the camp after their daily schedule

NCC hosted **‘Council Training Camp’**, during November 23-27, 2021 which tested the physical fitness, mental tolerance, overall skills and development of the cadets.

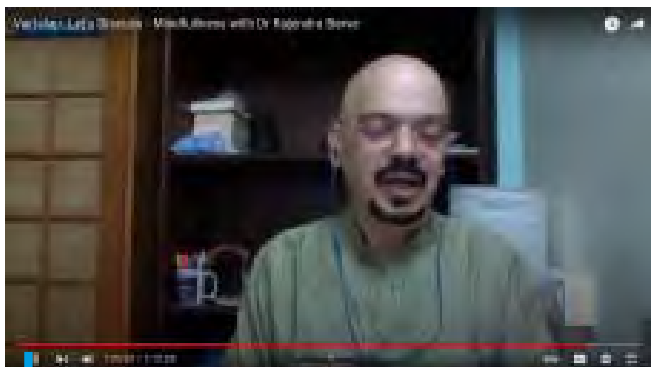
## Lecture Hall 102 Renamed As “Class of 93 Lecture Hall”

On December 15, 2021, Indian Institute Technology Bombay’s batch of 1993 gathered at Lecture Hall 102 on campus for a special occasion. This 240-seater facility has been renamed as **“Class of 93 Lecture Hall”** to honor the generous contribution made by the batch to enhance this space into a state-of-the-art one. The commemoration



event included the unveiling of the signage that has been installed outside Lecture Hall 102. This initiative by the **batch of ‘93** is part of **IIT Bombay’s Legacy (Silver Jubilee) Project**, a project where the alumni of the batch donate towards the Institute’s biggest needs.

## Student Wellness Centre celebrates World Mental Health Week



Workshop by Dr. Rajendra Barve on Mindfulness

The Core Counselling Team (CCT) of the Student Wellness Centre (SWC), IIT Bombay conducted one-on-one counselling for students who are facing various personal and academic concerns as a part of the mental health awareness. The **World Mental Health Day (WMHD)** is celebrated every year by the CCT, with events such as a street play to raise awareness, walkathon and live events.

Due to the pandemic, this year the WMHD was celebrated by CCT in online mode, with week-long events. It kick-started on October 3, 2021, with a talk on the '*Upside of Stress*' by Clinical Psychologist **Ms. Aditi Vaze**, as part of '**Vartalap -**

**Let's Discuss**', a series of talks on mental health. The event was open to students with a Q & A session at the end and was live-streamed on the **Core Counsellors IITB Youtube channel**.

The CCT also released two videos on the topics **Resilience and Coping with Grief**, on October 5 and 7, 2021, respectively. A workshop on **Mindfulness** by **Dr. Rajendra Barve**, Psychiatrist, was also held on October 9, 2021. The Incharge of SWC and other Counsellors from the CCT also participated in a **Pan-IIT Wellness Summit**, organized by IIT Madras on October 10, observed as World Mental Health Day, and contributed their inputs about initiatives on mental health from the CCT.

### Students News

**Love Kush Tak** (Roll No. 170040113), an undergraduate student in Department of Civil Engineering, has been conferred with **Innovative Student Projects Award 2021** of Indian National Academy of Engineering (INAE) for Bachelor level, for his UG project titled "*Calorific value determination of Reject Fractions from Mechanical Biological Treatment Plant*".

Three students from the Institute, **Shweta Lokhande**, Centre for Urban Science and Engineering (C-USE); **Aryalakshmi M** and **Rishabh Sharma**, IDP in Climate Studies, have been selected for the prestigious **The Prime Minister's Research Fellowship 2021**.

A team comprising students **Mohammad Tafueeqe**, Department of Computer Science and Engineering (CSE) and **Nitish Tongia**, Department of Electrical Engineering, guided by **Prof. Shivaram Kalyan Krishnan** from Department of CSE, IIT Bombay has won the **NeurIPS 2021 Reconnaissance Blind Chess competition (RBC)**.

A research paper on the topic '**Modelling of Underwater Acoustic Networks for Source Localization in Arbitrary Bounded Reservoirs**', written by the members of Team **AUV-IITB**, was published and featured on IEEE's research database, *IEEE Xplore*.

**Paramvir Singh**, a postdoctoral fellow in the Department of Aerospace Engineering, has been selected for the **Young Scientists Award (2022)** by *International Society for Energy, Environment and Sustainability (www.isees.in)*. PhD student, **Leena Khadke** has received the prestigious **Prime Minister's Research Fellowship (PMRF)**. She will be working on understanding the Himalayan Vegetation Atmosphere interactions.

PhD student, **Akshay Prakash Kalgutkar** (184040009), has received the "**Young Scientist Award**" for the best oral presentation of the manuscript titled "**Stability and Vibration Behaviour of Debonded Stiffened Composite Laminated Panels with Cutouts Under the Influence of Hygrothermal Loading**" during the 66th International Congress of

Indian Society of Theoretical and Applied Mechanics (ISTAM) organized by ISTAM and VIT-AP University, Amaravati held during December 3-5, 2021.

Ph.D. student **Ankur Sharma**, Department of Metallurgical Engineering and Materials Science, has been selected as one of the six winners in the poster competition, in the *Royal Society of Chemistry's* battery event. The poster has been highlighted as being particularly standout (among 130 participants from 30 different countries) by the Royal Society of Chemistry, UK.

Institute students **Rishabh Sharaff** and **Bhuvan Aggarwal**, have been awarded "**Kanitkar Merit Awards - 2021**" recently instituted by our alumnus **Mr. Jayant Kanitkar**, as toppers with CPI greater than 9.0 at the end of 3rd and 2nd year of B.Tech. in the Department of Civil Engineering, respectively. Each awardee will receive award money of INR 250,000.00 and an additional INR 22,000.00 from the office of Dean (Alumni and Corporate Relations), totaling INR 2.72 lakhs each, for their scholastic academic performance.

## Awards and Distinctions

**Prof. Jayadipta Ghosh**, Department of Civil Engineering, has been invited to join the prestigious American Society of Civil Engineers (ASCE) *Journal of Bridge Engineering* (ISSN: 1084-0702) as an Associate Editor

**Prof. Santhosh Gharpure**, Department of Chemistry, has been awarded the prestigious INSA Teachers Award (2021)

**Prof. Chandra Venkataraman**, Department of Chemical Engineering, has been elected as a Fellow of the Indian National Science Academy (INSA)

**Prof. Dinesh Sharma**, Department of Electrical Engineering and **Prof. Roop Mallik**, Department of Biosciences and Bioengineering, have been elected as Fellows of the Indian National Science Academy (INSA) 2021

**Prof. Anshuman Kumar Srivastava**, Department of Physics, has been awarded INSA Medal for Young Scientists 2021

**Prof. Bhaskaran Muralidharan**, Department of Electrical Engineering, has been appointed as Associate Editor in the IEEE Transactions on Nanotechnology starting with July 2021

**Prof. Atul Sharma**, Department of Mechanical Engineering; **Prof. Ravindra D Gudi**, Department of Chemical Engineering; **Prof. Saurabh Lodha**, Department of Electrical Engineering; **Prof. Suparna Mukherji**, Environmental Science and Engineering Department and **Prof. Rohit Srivastava**, Department of Biosciences and Bioengineering, have been elected as Fellows of Indian National Academy of Engineering (INAE)

**Prof. Abir De**, Department of Computer Science and Engineering, has received the INAE Young Engineer Award

**Prof. Achintya Dutta**, Department of Chemistry, has been selected for the National Academy of Sciences (NASI) Young Scientist Platinum Jubilee Award 2021 in the field of Chemical Sciences

**Prof. Anshuman Kumar**, Department of Physics, has been selected for the National Academy of Sciences (NASI) Young Scientist Platinum Jubilee Award 2021 in the field of Earth Sciences, Mathematics and Physics

**Prof. Dulal Panda**, Department of Biosciences and Bioengineering, has been elected as the Fellow of the prestigious The World Academy of Sciences (TWAS)

**Prof. Samir K. Maji**, Department of Biosciences and Bioengineering, has

received the P. B. Rama Rao Memorial Award for the year 2021 for his contributions in the field of Biochemistry and Allied Sciences from the Society of Biological Chemists (India)

**Prof. Prakriti Tayalia**, Department of Biosciences and Bioengineering has been chosen for the Merck Young Scientist Award-2021 in the Biological Sciences category

**Prof. Chandra M. R. Volla**, Department of Chemistry, has been chosen for the Merck Young Scientist Award-2021 in the Chemical Sciences category

**Prof. Ruchi Anand**, Department of Chemistry, has been inducted as an Associate Member in the IUPAC Standing Committee on Chemical Research Applied to World Needs (CHEMRAWN) for the term 2022-23

**Prof. Vivek Kant**, IDC School of Design and **Rounak Sengupta**, Interaction Design student, have won the Best Paper Award at the conference: INCOSE Human Systems Integration 2021 (<https://www.incose.org/hsi2021>). This paper lies at the intersection of the disciplines of Design, Human Factors and Systems Engineering. Paper: 'Holistic Asset Performance Management Systems: Speculative design for Industrial APM systems and human work experience in an Industry 5.0 setting'

**Prof. Chandra M. R. Volla**, Department of Chemistry, has been selected for Organisation of Pharmaceutical Producers of India (OPPI) Young Scientist Award 2021

**Prof. Suhas Joshi**, Department of Mechanical Engineering and **Prof. Sunoj Raghavan**, Department of Chemistry, have been elected as Fellows of National Academy of Sciences (NASI) 2021

**Prof. Maryam Shojaei Baghini**, Department of Electrical Engineering, has been appointed as Distinguished Lecturer of the IEEE Sensors Council for the period 2022-2024

**Prof. Parinda Vasa**, Department of Physics, has been elected as an Officer (Secretary) for IUPAP Commission 17 (C17) for Laser Physics and Photonics for the next triennial (2022-2024)

**Prof. Rohit Srivastava**, Department of Biosciences and Bioengineering, has been invited to join the editorial board of Imaging and Diagnostics, a section within *Frontiers in Biomaterials Science*, as an Associate Editor

**Prof. Shobhna Kapoor**, Department of Chemistry, has been invited to join the Early Career Advisory Board (ECAB)

member of *Chemistry- An Asian Journal* from 2022 onwards

**Prof. Suvarn Kulkarni** and **Prof. Nandita Madhavan**, Department of Chemistry, have been invited to join the Editorial Advisory Board of *Chemistry Select*

**Prof. Samir Maji**, Department of Biosciences and Bioengineering, has been invited to join the Editorial Advisory Board of American Chemical Society Journal "ACS Bio & Med Chem" for the term of three years

**Prof. Subramaniam Chandramouli**, Department of Chemistry, has received the prestigious Swarnajayanti Fellowship for 2021, for his innovative proposal to generate 'green heat'

**Prof. Amartya Mukhopadhyay**, Department of Metallurgical Engineering and Materials Science, has received the prestigious Swarnajayanti Fellowship for 2021, for his contribution to the field of Engineering Science

**Prof. Eswar Rajasekaran**, Department of Civil Engineering, has been selected for the Prof. K.K. Nageswara Rao Young Achiever Award-2021 given by the Indian Society of Geomatics for his significant contributions in the field of Geomatics

**Prof. Gulab Singh**, Centre of Studies in Resources Engineering (CSRE), has been awarded the "National Geomatics Award for Excellence" by the Indian Society of Geomatics (IGS) during the National Symposium on i-GEOMATICS and Annual Convention of ISRS and ISG 2021

**Prof. K Ramasubramanian**, Humanities and Social Sciences, has been awarded "Mahakavi Kalidas Sanskrit-Vrati National Award 2021" by Kavikulaguru Kalidas Sanskrit University

**Prof. Riddhi Singh**, Department of Civil Engineering, has been appointed as "Associate Editor" of *Journal of Hydrology, Elsevier*, for a period of two years starting from Jan 2022

**Prof. Ranjith Padinhateeri**, Department of Biosciences and Bioengineering has been awarded Fulbright-Nehru Academic and Professional Excellence Fellowship (2022-2023)

**Prof. Supratik Chakraborty**, Department of Computer Science and Engineering, has been recognized as a Distinguished Member of the ACM (Association of Computing Machinery) for "Outstanding Scientific Contributions to Computing"

## Atal Rankings of Institutions on Innovation (ARIIA) 2021

IIT Bombay has secured second position in the Atal Rankings of Institutions on Innovation (ARIIA) 2021 under the CFTI's category '**Institute of National Importance (Technical)**'. For the third consecutive year, IIT Bombay secured second position in ARIIA rankings.

The result of ARIIA was announced by the Hon'ble Minister of State for Education, **Dr. Subhas Sarkar**, on Wednesday, December 29, 2021 in presence of **Dr. Abhay Jere**, Chief Innovation Officer, MoE, Govt. of India, **Dr. Anil Sahasrabudhe**, Chairman, All India Council for Technical Education (AICTE) and others.

Earlier, in 2020 and 2019 ARIIA rankings, IIT Bombay stood second under the category of the 'Publicly-Funded Institutions'.

Last year the ARIIA participating institutions were categorized into two broad categories viz. 'Publicly Funded Institutions' and 'Private or Self-Financed Institutions' whereas ARIIA 2021 classified the participating institutions into Technical and Non-Technical categories.

**Prof. Subhasis Chaudhuri**, Director, IIT Bombay said, *"Innovation plays a major role in today's higher education. IIT Bombay puts a lot of emphasis in creating an ambiance that is conducive to innovation and entrepreneurship. We are happy to note this recognition, but there is scope for further improving the ecosystem"*.



**Prof. Milind Atrey**, Dean (R&D), IIT Bombay said, *"IIT Bombay remains committed to promote innovation and entrepreneurship efforts of our researchers. I would like to congratulate our faculty members, students and researchers who have converted their technologies to commercial enterprises and start-ups. ARIIA ranking is a validation of our relentless efforts to create a world-class ecosystem to help create Atmanirbhar Bharat"*.

Atal Ranking of Institutions on Innovation Achievements (ARIIA) was initiated by the Ministry of Education (formerly Ministry of Human Resource Development), Government of India on August 30, 2018, to systematically rank all major higher educational institutions and universities in India on parameters related to "Innovation and Entrepreneurship Development" amongst students and faculty members. The parameters used for consideration for ARIIA rankings include budget, facilities, awareness, entrepreneurship, commercialization, learning methods and governance.

## Director Inaugurates Cafe' 92 In The Campus

On December 18, 2021, the Director of IIT Bombay **Prof. Subhasis Chaudhuri** and other functionaries along with members of the **Silver Jubilee batch of 1992** inaugurated **Cafe' 92** near SJMSOM. Cafe' 92 will serve as a hangout destination for the IIT Bombay community to enjoy their free time. The Café has been set up on campus through the generous donation from the '92 batch as part of their **Legacy Project**, where alumni of the batch come forward and donate to the Institute's greatest needs.



## Highlight Notification



IIT Bombay's distinguished alumnus, **Prof. Rajesh Gokhale** has been appointed as the **Secretary, Department of Biotechnology, Ministry of Science and Technology, Government of India**. Prof. Rajesh Gokhale is a chemical biologist. He completed his M.Sc in Biotechnology from IIT Bombay and then obtained his Ph.D. from the Indian Institute of Science, Bangalore, in Protein Folding and Stability. He then joined the National Institute of Immunology (NII), Delhi as faculty. He served as the Director of CSIR-Institute of Genomics and Integrative Biology (CSIR-IGIB), Delhi. Previously, he has also served as Staff Scientist at National Institute of Immunology. He is currently a Professor of Biology at the Indian Institute of Science Education and Research, Pune.



**Prof. Abhay Karandikar**, Department of Electrical Engineering, currently serving as the Director of IIT Kanpur, has been appointed as a member of the **Board of Governors of IEEE- Standards Association (IEEE-SA)** for a period of two years beginning January 2022. He is currently leading two IEEE standards in 5G- IEEE P1930.1 and IEEE P2061. He has also been serving as Member of Advisory board of European Union's Beyond 5G Flagship Consortium project.

## Notification

**K V Krishna Rao**, Department of Civil Engineering, has been appointed as Deputy Director (Finance and External Affairs) w.e.f. November 11, 2021

**Prof. Tom V Mathew**, Department of Civil Engineering, has been appointed as the Dean, Infrastructure Planning and Support (IPS) w.e.f. December 23, 2021

**Prof. Sharat Chandran**, Department of Computer Sciences and Engineering, has been appointed as the Co-ordinator for Prime Minister Research Fellowship (PMRF) w.e.f. June 01, 2020

**Prof. Virendra Sethi**, Environmental Science and Engineering Department, has been appointed as Head, Centre for Urban Science and Engineering (C-USE) w.e.f. November 2, 2021

**Prof. Debjani Paul**, Department of Biosciences and Bioengineering, has been appointed as Professor-In-

Charge, Wadhwani Research Centre in Bioengineering (WRCB) w.e.f. November 8, 2021

**Prof. Achintya K. Dutta**, Department of Chemistry, has been appointed as Warden, Hostel No. 04 w.e.f. September 1, 2021

**Prof. Manasa R. Behera**, Department of Civil Engineering, has been appointed as Warden, Hostel No. 03 w.e.f. October 1, 2021

**Prof. Munish Chandel**, Environmental Science and Engineering Department, has been appointed as Warden, Hostel Tansa w.e.f. November 1, 2021

**Prof. Sudipta Dasgupta**, Department of Earth Sciences, has been appointed as Associate Warden Hostel No. 03 w.e.f. October 1, 2021

**Prof. Debasattam Pal**, Department of Electrical Engineering, has been appointed as Associate Warden, Hostel Tansa w.e.f. November 2, 2021

## Retirements on October 31, 2021

**Mr. T. Raghunathan**, Helper,  
CHMS, retired after  
34 years of service



**Mr. Pradip V. Thombare**,  
Administrative  
Superintendent,  
HR-1 HRM-2,  
retired after 39  
years of service



**Ms. Parvati R. Thorat**, Multi-  
skilled Assistant. A,  
Public Health  
Office, retired after  
6 years of service



## Retirements on November 30, 2021

**Dr. R. Premkumar**, Registrar, IIT  
Bombay retired after  
7 years of service



**Prof. Joseph John**, Department of  
Electrical  
Engineering, retired  
after 11 years of  
service



**Ms. Mayuri Gandhi**, Research  
Scientist, Centre for  
Research in  
Nanotechnology and  
Science, retired  
after 37 years of  
service



**Mr. Suresh S. Bambodkar**, Sr.  
Post Graduate  
Teacher (Scale II),  
Campus School,  
retired after 28  
years of service



**Mr. Bhagwan H. Sawant**, Sr. Multi-  
skilled Assistant,  
Dept. of Chemical  
Engineering, retired  
after 39 years of  
service



**Mr. Mahendra P. Jadiyar**, Sr. Multi-  
skilled Assistant,  
Estate Office,  
retired after 38  
years of service



**Mr. Narendra N. Vengurlekar**, Sr.  
Multi-skilled  
Assistant,  
Department of  
Earth Sciences,  
retired after 38  
years of service



## Retirements on December 31, 2021

**Prof. Bhagwantrao N. Jagatap**,  
Department of  
Physics, retired  
after 5 years of  
service



**Mr. Ashok G. Tambe**, Sanitary  
Assistant Grade I,  
Public Health  
Office, retired after  
26 years of service



**Mr. Shivaji L. Kute**, Sr. Multi-  
skilled Assistant,  
Dean (R & D)  
Office, retired after  
32 years of service



## Obituary



**Prof. S. K. Banerjee**, a former professor in the Department of Electrical Engineering, passed away on November 6, 2021. Prof. Banerjee retired in 1992. Prof. Banerjee worked in the area of power systems. He was instrumental in initiating the research activity in the area of High Voltage DC transmission in the Department of Electrical Engineering.



Former professor of the Institute, **Prof. Surjya Kumar Maiti**, passed away on December 03, 2021. Prof. S.K. Maiti had joined IIT Bombay as lecturer in 1975 and had a very long association with the Institute (till 2019). He had served as Head of the Mechanical Engineering Department during 2005-2008. He was also a G K Devarajulu Chair Professor for about six years. He was an excellent teacher and had received several teaching awards.



**Prof. Leela Srinivas Panchakarla**, Department of Chemistry passed away on December 24, 2021. Prof. Panchakarla joined IIT Bombay in the year 2016 and was serving as Associate Professor.

**CEP courses scheduled in January 2022**

Duration	Days	Course Title	Course Coordinator	Department
Open Programmes :				
6-1-2022	6 days	Sustainable Urban Systems	Prof. Himanshu Burte	Centre for Urban Science and Engineering
8-1-2022	6 months	User Experience Design (With Great Learning)	Prof. Anirudha Joshi	Industrial Design Centre



In the  
Wilderness



**Photo Credit :**  
Prof. Hari Pandalai

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BOOK POST

