IIT Bombay Holds Its Diamond Jubilee (60th) Convocation

(L-R) Mr. Sharad Saraf, Chairperson, Board of Governors (BoG) of IIT Bombay, Chairman and Managing Director of Technocraft Industries India Ltd.; Mr. Kumar Mangalam Birla, Chairman, Aditya Birla Group; Professor Subhasis Chaudhuri, Director, IIT Bombay on the dais along with the Senate members (Centre) during the 60th Convocation

The Indian Institute of Technology Bombay (IITB) held its 60th Convocation at its campus on August 20, 2022. **Mr. Kumar Mangalam Birla,** Chairman, Aditya Birla Group was the Chief Guest and delivered the Convocation Address. The Convocation was presided over by the Chairperson, Board of Governors (BoG) of IIT Bombay, **Dr. Sharad Saraf,** in the presence of the Institute Director **Prof. Subhasis Chaudhuri.** Dr. Saraf is the first IIT Bombay alumnus to become the Chairperson of the Board of Governors at the Institute.

Chairperson of BoG, IIT Bombay Dr. Sharad Saraf addressing the graduating students

In his address to the graduands, **Dr. Sharad Saraf** said, *"I request you to consider becoming an entrepreneur and never ever feel a sense of frustration or depression and be a leader wherever you are working".*

Four students were presented with Gold medals for their exemplary performance this year. The **'President of India Medal'** was bestowed on **Mohammad Ali Rehan**, a BTech student from the Department of Computer Science and Engineering. The **'Institute Gold Medal (2020-21)'** was awarded to **Koustav Jana,** a dual degree student from the Department of

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Electrical Engineering; the **'Institute Gold Medal (2021-22)'** was awarded to **Aryaman Maithani**, a BS student from the Department of Mathematics and the **'Dr. Shankar Dayal Sharma Gold Medal'** was conferred on **Shreya Pathak,** a BTech student from the Department of Computer Science and Engineering. Additionally, many more students were presented with gold medals sponsored by donors.

Mr. Mohammad Ali Rehan, a student of Department of Computer Science and Engineering, receiving the The 'President of India Medal' from the Chief Guest during the 60th Convocation

Ms. Shreya Pathak, a student of Department of Computer Science and Engineering, receiving the 'Dr. Shankar Dayal Sharma Gold Medal' from the Chief Guest during the 60th Convocation

Presenting the Institute's Report for the year 2021-22, **Prof. Subhasis Chaudhuri** said, *"...today's graduating batch is not only the batch to receive the degree at the Institute's diamond jubilee convocation, but the batch is possibly the most 'hardened' batch that IIT Bombay has ever produced! The students have experienced with a remarkable stoicism all three phases of life in the campus: pre-covid ambience, extreme hardship due to pandemic and then the post-pandemic opportune moments that the campus provides. The training that our students receive will definitely see them taking up leadership roles, as always, in academic and corporate world, thus contributing to the needs of our country".*

Chief Guest Mr. Kumar Mangalam Birla, Chairman, Aditya Birla Group addressing the audience

On the academic front, Prof. Subhasis Chaudhuri revealed that this academic year, a total of 2835 degrees will be awarded to 2585 recipients. The total number of PhD degrees awarded this year is 449. It is worth noting that this is the first time that any Indian academic institute has produced more than 400 PhD graduates in a year – a major milestone for STEM education in India.

Congratulating the graduating students for their academic performance, Chief Guest **Mr. Kumar Mangalam Birla**, in his speech said, *"To thrive in this world, I believe you must operate at the intersection of purpose, people and machines (PPM). I urge you to think of PPM not as Parts Per Million but as Purpose, People and Machines. You are the future of this great nation. All of you have proven yourself as great graduates. Now you need to reinforce and retain human empathy. Find every unique opportunity to reinforce humanness".*

At this main session of the 60th Convocation, a total of 2551 degrees were awarded to 2324 students. The degrees include 206 PhD, 34 (MTech/ MPhil+PhD), 24 Dual Degree (MSc+PhD), 3 MS (by research), 700 MTech, 53 MDes, 14 Dual Degree (BDes+MDes), 23 MPhil, 115 MBA, 1 EMBA, 17 MPP, 204 two-year MSc, 326 Dual Degree (BTech+MTech), 654 BTech Degrees, 50 Interdisciplinary Dual Degrees (BTech/ BS+MTech/ MSc), 6 five-year Integrated MSc, 6 Dual Degrees (BS+MSc), 48 BS, 14 BDes and 24 PDGIIT. This year, IIT Bombay granted 25 joint PhD's along with Monash University. Prof. Margaret Gardner, President and the Vice-Chancellor of Monash University conferred the 'joint degrees in person.

This year, 35 research scholars have been selected for the award of **'Naik and Rastogi Award for Excellence in PhD Thesis'** for the year 2020-22.

Apart from witnessing the conferment of degrees, the uttariyas worn by the senators on the dais, which were hand-woven at the Insitute's IDC School of Design, caught the audience's attention. Many of the graduating students took efforts to learn the process of weaving and they had proudly worn the self-woven uttariyas during the convocation.

The Convocation function was attended by **Prof. Margaret Gardner,** President and Vice-Chancellor, Monash University, Australia; members of the Board of Governors and several other distinguished guests from India and abroad, besides the graduating students and their parents.

The function was broadcast live on https://www.youtube.com/c/IITBombayOfficialChannel

MEDALS AND PRIZES
AT THE 60th CONVOCATION OF THE INSTITUTE
held on 20th August 2022

PRESIDENT OF INDIA MEDAL
(for the year 2020-21)
Mohammad Ali Rehan
B.Tech. (Computer Science and Engineering)

INSTITUTE GOLD MEDAL
(for the year 2021-22)
Aryaman Maithani
Bachelor of Science (Mathematics)

INSTITUTE GOLD MEDAL
(for the year 2020-21)
Koustav Jana
Dual Degree Programme (Electrical Engg.)

INSTITUTE SILVER MEDAL (for the year 2021-22)

BACHELOR OF TECHNOLOGY

Aerospace Engineering
Nakul Rajesh Randad

Chemical Engineering
Arjun Varun Yennemadi

Computer Science and Engineering
Pratyush Agarwal

Electrical Engineering
Parth Nilesh Dodhia

Mechanical Engineering
Shubham Lohiya

Metallurgical Engineering and Materials Science
Hrithik Agrawal

Engineering Physics
Siddharth Tiwary

DUAL DEGREE PROGRAMME

Aerospace Engineering
Rohit Vinodrao Tembhare

Electrical Engineering
Vaidya Mithilesh Mandar

Mechanical Engineering
Radha Manoj Lahoti

Engineering Physics
Guru Kalyan Jayasingh

BACHELOR OF SCIENCE

Mathematics
Varun Sunil Shah

Economics
Mridul Agrawal

DUAL DEGREE (B.S.+ M.Sc.)

Chemistry
Shubhanshu Jain

5 YR. INTEGRATED M.Sc.

Mathematics
Manav Sanjay Batavia

MASTER OF SCIENCE

Applied Geophysics
Abhishek Satyavir Sharma

Chemistry
Sagnik Chatterjee

Applied Geology
Ashwini Kumar

Applied Statistics and Informatics
Raika Saha

Physics
Shivangi

Biosciences and Bioengineering
Abhishek Goswami

Mathematics
Ujjwal Kumar Sana

Mathematics
Krishna Chaitanya Kalidindi (for the year 2020-21)

MASTER OF TECHNOLOGY

Aerospace Engineering
Chirag Chugh

Biomedical Engineering
A Akshara Padmini Chandra

Chemical Engineering
Akash Kumar Ball

Civil Engineering
Rohit Bidiyasar

Computer Science and Engineering
Rohit Kundu

Earth Sciences
Debdeep Kirtonia

Electrical Engineering
Nishant Saurabh

Electrical Engineering
Rupak Kundu

Energy Systems Engineering
Sumit Kumar Sharma

Mechanical Engineering
Dhisale Manthan Nitin

Metallurgical Engineering and Materials Science
B Vinith

Environmental Science and Engineering
Abhinav Agrawal

Geoinformatics and Natural Resources Engineering
Kodihal Vishvesh Hanumantrao

Industrial Engineering and Operations Research
Konge Utkarsh Vasudev

Technology and Development
Patil Kaustubh Sunil

Systems and Control Engineering
Debashis Tarai

Urban Systems
Nair Ashish Balachandran Geetha

MASTER OF DESIGN

Animation
Nayanika Dey

MASTER OF BUSINESS ADMINISTRATION (MBA)

Shailesh J. Mehta School of Management
Divyansh Sood

MASTER OF PHILOSOPHY

Planning and Development
Krishna P. M

MASTER OF PUBLIC POLICY

Policy Studies
Tisha Chakrabarti

OTHER MEDALS

Miss Jayati Deshmukh Memorial Gold Medal
Mohammad Ali Rehan

Dr. Shankar Dayal Sharma Gold Medal
Shreya Pathak

Vidyasagar Nehra Gold Medal
Jaymal A. Lodha

Prof Madhav Kulkarni Lt. Col.(R)Gold Medal
Jaymal A. Lodha

Sharad Maloo Memorial Gold Medal
Pratyush Agarwal

Hindi Vidya Bhavan Gold Medal
Divyansh Sood

Rajit Bhagwati Memorial Gold Medal
Abhinav Agrawal

Abhijeet Banerjee SJMSOM Silver Medal
Pulkit Jindal

PRIZES

Prof. K C Mukherji Award
Parth Nilesh Dodhia

Tulsiram Devidayal, P.M. Natu, Damle Trust Prize
Dhisale Manthan Nitin

**Prof. R.P. Singh Memorial Prize
(B.Tech. / 2 Yr. M.Sc.)**
Siddharth Tiwary

Chandrashekhar Prize
Diptashree Banerjee

Shri R Vembu Iyer Memorial Prize
Ashwini Kumar
Chandan Pradhan

Dilip R Limaye Academic Excellence Award
Mohammad Ali Rehan

**Prof. A.B. Biswas Memorial & Shri Prakash
Krishnan Award Prize (M.Sc.)**
Sagnik Chatterjee

Dr. Gargi Vishnoi Memorial Prize
Navalkar Ambuja Pradip

Prof. Hiralal Memorial Award
Sagnik Chatterjee

Shri Ashok Chaturvedi Memorial Prize (M.Tech.)
Dhisale Manthan Nitin

Prabhulal Bhatnagar Memorial Prize
Ruma Rani Maity

Mrs. Rama Mathur Memorial Prize
Ujjwal Kumar Sana

Prof. M.N.Gopalan Prize (M.Sc.)
Raika Saha

Ajit Shelat Award
Rupak Kundu
Nishant Saurabh

Bhavesh Gandhi Memorial Prize
Katha Ganguly
Vaibhav Pachaulee
Vaidya Mithilesh Mandar

Akshay Dhoke Memorial Award
Koustav Jana

Prof. K.C. Khilar PhD Award
Farha Naaz

Prof. K.C. Khilar Prize (M.Tech.)
Ginoya Darshak Shashikantbhai

R. G. Manudhane PhD Excellence Award
Annesha Sengupta
Damini Jaiswal

R.G. Manudhane M.Tech Student Excellence Award Best M.Tech Thesis
Patel Janak Maheshbhai
Shrita Singh

Mr. Pranab Ranjan Sen Award
Aditya Nishith Shah

Indira Manudhane Student Excellence Award
Arjun Varun Yennemadi

Shubhada Mulekar Joshi Award
Shreya Chakraborty

Prof. S N Sinha Memorial Award
Atharva Arvind Lokhande

Dr. P. V. Sukhatme Memorial Award
Ujjwal Kumar Sana
Akash Biswal

Raika Saha
Indraneel Mukhopadhyaya

S C Mehrotra Prize
Rishabh Sharaff

K Seshia Research Excellence Award
Sankalp Gambhir
Gattu Mytraya
Guru Kalyan Jayasingh

Ramesh Chandra Sinha Academic Excellence Award
Shreya Pathak

Manorama Sinha Academic Excellence Award
B. Priyanka

Malini Vyavahare (Indore) Memorial Award
Suhasinee Jain

Digamber & Nilima Joshi Award
Tsering Nurboo

Mrs. Charusheela Dange Award
Himansh Rathore

IEOR Alumnus Endowment: Excellence in Doctoral Dissertation Award
Sandhya Tripathi

IEOR Alumnus Endowment: Best Masters' Thesis Award
Akshat Bansal
Ankita Prasad

Baishnab and Kasturi Academic Excellence Award
Bishal Pandey

A. Parthasarathy-G Shanmugam Award in Sedimentology and Petroleum Geology
Prakhar Agarwal

Institute Academic Prizes for the Academic year 2021-22
II Year B.Tech. / Dual Degree / BS (2021 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	210050011	Ameya Prashant Deshmukh	I	Rs.3000/-	Computer Sc. & Engg.
2	210050023	Ashwin Abraham	I	Rs.3000/-	Computer Sc. & Engg.
3	210050061	Guramrit Singh	I	Rs.3000/-	Computer Sc. & Engg.
4	210050091	Madur Adarsh Reddy	I	Rs.3000/-	Computer Sc. & Engg.
5	210051002	Ananth Krishna Kidambi	I	Rs.3000/-	Computer Sc. & Engg.
6	210051004	Soham Shrikant Joshi	I	Rs.3000/-	Computer Sc. & Engg.
7	210070014	Atharva Abhijit Tambat	I	Rs.3000/-	Electrical Engg.
8	210050058	Govind Kumar	II	Rs.2000/-	Computer Sc. & Engg.
9	210050075	Josyula Venkata Aditya	II	Rs.2000/-	Computer Sc. & Engg.
10	210050083	Kartik Sreekumar Nair	II	Rs.2000/-	Computer Sc. & Engg.
11	210051003	Krishna Narasimhan Agaram	II	Rs.2000/-	Computer Sc. & Engg.

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
12	210050009	Akshat Goyal	Additional	Rs.2000/-	Computer Sc. & Engg.
13	21D070079	Tamojeet Roychowdhury	Additional	Rs.2000/-	Electrical Engg.
14	210050070	Isha Arora	Additional	Rs.2000/-	Computer Sc. & Engg.
15	210260037	Nilabha Saha	Additional	Rs.2000/-	Engg. Physics
16	210050126	Pulkit Goyal	Additional	Rs.2000/-	Computer Sc. & Engg.
17	210050082	Karan Godara	Additional	Rs.2000/-	Computer Sc. & Engg.
18	210050044	Dhananjay Raman	Additional	Rs.2000/-	Computer Sc. & Engg.
19	210050123	Premankur Chakraborty	Additional	Rs.2000/-	Computer Sc. & Engg.
20	210050138	Sabyasachi Samantaray	Additional	Rs.2000/-	Computer Sc. & Engg.

III Year B.Tech. Branchwise (2020 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	200010010	Ammar Khozem Barbhaiwala	I	Rs.3000/-	Aerospace Engineering
2	200110090	Ronit Mandar Chitre	II	Rs.2000/-	Aerospace Engineering
3	200020086	Palak Bhavesh Vora	I	Rs.3000/-	Chemical Engineering
4	200020145	Sumit Kumar	II	Rs.2000/-	Chemical Engineering
5	200040144	Sunandinee Mehra	I	Rs.3000/-	Civil Engineering
6	200040113	Raghav Rander	II	Rs.2000/-	Civil Engineering
7	200050109	Prathamesh Sachin Pilkhane	I	Rs.3000/-	Comp.Sc. & Engineering
8	200050127	Sankalp Parashar	I	Rs.3000/-	Comp.Sc. & Engineering
9	200050130	Shashwat Garg	I	Rs.3000/-	Comp.Sc. & Engineering
10	200050148	Vaibhav Raj	I	Rs.3000/-	Comp.Sc. & Engineering
11	200050154	Vedang Dhirendra Asgaonkar	I	Rs.3000/-	Comp.Sc. & Engineering
12	200050157	Virendra Kabra	I	Rs.3000/-	Comp.Sc. & Engineering
13	20D070050	Mayank Jain	II	Rs.2000/-	Comp.Sc. & Engineering
14	200070004	Aditya Sriram	I	Rs.3000/-	Electrical Engineering
15	200070090	Waqar Mirza	I	Rs.3000/-	Electrical Engineering
16	200070083	Tanmay Dokania	II	Rs.2000/-	Electrical Engineering
17	200100078	Kaivaly Sanjay Daga	I	Rs.3000/-	Mechanical Engineering
18	200100005	Achanti Meghana	II	Rs.2000/-	Mechanical Engineering
19	200110008	Aditya Anil Wankhade	I	Rs.3000/-	Met. Engg. & Mat. Sci.
20	200110051	Joshi Soham Sagar	I	Rs.3000/-	Met. Engg. & Mat. Sci.
21	200110115	Tarun Kumar Gupta	II	Rs.2000/-	Met. Engg. & Mat. Sci.
22	200260029	Mehul Vijay Chanda	I	Rs.3000/-	Engineering Physics
23	200260008	Anurag Abhijit Pendse	II	Rs.2000/-	Engineering Physics

III Year Dual Degree Branchwise (2020 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	20D070020	Aziz Sohel Shameem	I	Rs.3000/-	Electrical Engineering
2	20D070028	Dsouza Annie John	II	Rs.2000/-	Electrical Engineering
3	20D100022	Saksham Katiyar	I	Rs.3000/-	Mechanical Engineering
4	200020023	Ameya Vikram Halarnkar	II	Rs.2000/-	Mechanical Engineering
5	20D170030	Radhika Balasubramaniam	I	Rs.3000/-	Energy Sc. & Engg.
6	20D170005	Arya Patil	II	Rs.2000/-	Energy Sc. & Engg.
7	20D180019	Manasi Pawar	I	Rs.3000/-	Environmental Science & Engg.
8	20D180003	Advait Nilesh Dhakane	II	Rs.2000/-	Environmental Science & Engg.
9	20D110006	Devashish Girish Bhave	I	Rs.3000/-	Met. Engg. & Mat. Sc.

III Year BS Branchwise (2020 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	20B030032	Sarthak Jain	I	Rs.3000/-	Chemistry
2	20B080020	Keerthana P	I	Rs.3000/-	H&SS
3	20B080016	Harasis Kaur	II	Rs.2000/-	H&SS
4	20B090011	Shantanu Hrishikesh Nene	I	Rs.3000/-	Mathematics

IV Year B.Tech. Branchwise (2019 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	190010014	Ayush Sarraf	I	Rs.3000/-	Aerospace Engineering
2	190010069	Vignesh Anand	II	Rs.2000/-	Aerospace Engineering
3	190020007	Akshat Shirish Zalte	I	Rs.3000/-	Chemical Engineering
4	190020038	Dev Moxaj Desai	II	Rs.2000/-	Chemical Engineering
5	190040092	Ritick Ranjan Prasad	I	Rs.3000/-	Civil Engineering
6	190040010	Akash Tanwar	II	Rs.2000/-	Civil Engineering
7	190100044	Devansh Jain	I	Rs.3000/-	Computer Sc. & Engg.
8	190050034	Dhruv Arora	II	Rs.2000/-	Computer Sc. & Engg.
9	190050048	Harshit Gupta	II	Rs.2000/-	Computer Sc. & Engg.
10	190070038	Nishant Mittal	I	Rs.3000/-	Electrical Engineering
11	190260016	Darin Jeff	II	Rs.2000/-	Electrical Engineering
12	19D100007	Hiya Akhil Gada	I	Rs.3000/-	Mechanical Engineering
13	19B080023	Samyak Ajmera	II	Rs.2000/-	Mechanical Engineering
14	190110007	Anish Satpati	I	Rs.3000/-	Met. Engg. & Mat. Sci.
15	190110035	Kamath Prathami Divakar	II	Rs.2000/-	Met. Engg. & Mat. Sci.
16	190260006	Aneesh Milind Bapat	I	Rs.3000/-	Engineering Physics
17	190260027	Mahadevan Subramanian	II	Rs.2000/-	Engineering Physics

IV Year Dual Degree Branchwise (2019 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	190110040	Kushal Kejriwal	I	Rs.3000/-	Electrical Engineering
2	19D070022	Eeshaan Jain	II	Rs.2000/-	Electrical Engineering
3	19D100010	Lakshya Chaplot	I	Rs.3000/-	Mechanical Engineering
4	190110034	Joshi Madhav Gopal	II	Rs.2000/-	Mechanical Engineering
5	19D110003	Aditya Garg	I	Rs.3000/-	Met. Engg. & Mat. Sc.
6	19D110017	Sanskar Jaiswal	II	Rs.2000/-	Met. Engg. & Mat. Sc.
7	19D170003	Arya Santosh Motegaonkar	I	Rs.3000/-	Energy Sc. & Engg.
8	19D170027	Sanidhya Anand	II	Rs.2000/-	Energy Sc. & Engg.
9	19D180004	Aditi Ganpat Khode	I	Rs.3000/-	Environmental Science & Engineering
10	19D180012	Jandu Jaskirat Singh Jitendra Singh	I	Rs.3000/-	Environmental Science & Engineering

IV Year Four Year BS Branchwise (2019 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	19B030003	Anish Shivamani	I	Rs.3000/-	Chemistry
2	19B030025	Sanaa Sharma	II	Rs.2000/-	Chemistry
3	19B080011	Chaitanya Maheshwari	I	Rs.3000/-	H & SS
4	190040124	Swapnil Gupta	II	Rs.2000/-	H & SS
5	19B090007	Pranav Viswanatha	I	Rs.3000/-	Mathematics

V Year Dual Degree Branchwise (2018 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	180020030	Diti Alok Sanghai	I	Rs.3000/-	Electrical Engineering
2	180100083	Prakhar Vijay Diwan	I	Rs.3000/-	Electrical Engineering
3	18D070021	Priyanka Sandeep Bagade	I	Rs.3000/-	Electrical Engineering
4	18D070036	Adil Anwar Khan	I	Rs.3000/-	Electrical Engineering
5	18D180002	Aman Dhammani	II	Rs.2000/-	Electrical Engineering
6	18D170002	Aishwarya Sidram Sherla	I	Rs.3000/-	Energy Sc. & Engineering
7	18D170028	Rikin Sunij Shah	II	Rs.2000/-	Energy Sc. & Engineering
8	18D110014	Aniket Ghosh	I	Rs.3000/-	Mechanical Engineering
9	180100059	Kratik Bhadoriya	II	Rs.2000/-	Mechanical Engineering
10	180110015	Aryan Mishra	I	Rs.3000/-	Met. Engg. & Mat. Sci.
11	18D180004	Bajranglal	I	Rs.3000/-	Environmental Sc. & Engg.

II Year M.Sc. (2021 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	215030032	Sandip Kumar Mishra	I	Rs. 3000/-	Chemistry
2	215030004	Anika	II	Rs. 2000/-	Chemistry
3	215060013	Deepak Kumar Jaiswal	I	Rs. 3000/-	Earth Sciences
4	215060030	Niladri Das	I	Rs. 3000/-	Earth Sciences
5	215060028	Sibashish Dash	II	Rs. 2000/-	Earth Sciences
6	215120017	Arunendra Kumar Verma	I	Rs. 3000/-	Physics
7	215120026	Sarthak	II	Rs. 2000/-	Physics
8	215120050	Diksha Garg	II	Rs. 2000/-	Physics
9	215300007	Ravi Sharma	I	Rs. 3000/-	Biosciences & Bioengineering
10	215300012	Sudeepta Singh	II	Rs. 2000/-	Biosciences & Bioengineering
11	215280013	Rajat Garg	I	Rs. 3000/-	Applied Statistics & Informatics
12	215280005	Sylvia Vincent	II	Rs. 2000/-	Applied Statistics & Informatics
13	215280009	Saubhagya Kakkar	II	Rs. 2000/-	Applied Statistics & Informatics
14	215090029	Poonam Nayak	I	Rs. 3000/-	Mathematics
15	215090019	Malay Makur	II	Rs. 2000/-	Mathematics
16	215320006	Kapil Sharma	I	Rs. 3000/-	Applied Geophysics

B.Des. Students (2019 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	19U130005	Saloni Shetye	I	Rs. 3000/-	Industrial Design Centre
2	19U130028	Sharvil Survase	II	Rs. 2000/-	Industrial Design Centre

B.Des. Students (2020 Batch)

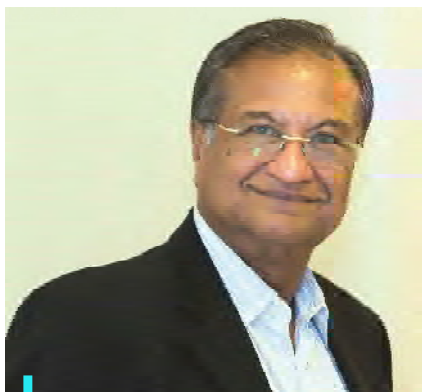| Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	20U130030	Ishita Sharma	I	Rs. 3000/-	Industrial Design Centre
2	20U130006	Amisha Gopi Nair	II	Rs. 2000/-	Industrial Design Centre

B.Des. Students (2021 Batch)

Sr. No.	Roll No.	Name	Prize	Value of Prize	Department
1	21U130018	Vaibhav Jangid	I	Rs. 3000/-	Industrial Design Centre
2	21U130025	Atharva Anil Vankundre	II	Rs. 2000/-	Industrial Design Centre

OTHER PRIZES

Name of the Prize	Roll No.	Name of the Awardee	Total Amount
Shri Rakesh Mathur Excellence Award	190050048	Harshit Gupta	Rs. 100000/- IV Yr. UG Student.
Shri T.K. Subramanian Prize For Academic Excellence	19D100007	Hiya Akhil Gada	Rs.1000/- IV Yr. B.Tech. Mech.Engg.
Urvish Medh Memorial Prize (For Electrical Engg.)	210070037	Joel Anto Paul	Rs. 2000/- I Yr. B.Tech. Electrical Engg. (for the year 2021-22)
	210070014	Atharva Abhijit Tambat	Rs. 2000/- II Yr. B.Tech. Electrical Engg.
	200070090	Waqar Mirza	Rs. 2000/- III Yr. B.Tech. Electrical Engg.
	190070038	Nishant Mittal	Rs. 2000/- IV Yr. B.Tech. Electrical Engg.
Prof. M.N. Vartak Memorial Prize	215280013	Rajat Garg	Rs. 6000/- II Yr. M.Sc. Applied Statistics & Informatics
Mrs. Rama Mathur Memorial Prize	215090029	Poonam Nayak	Rs. 2000/- II Yr. M.Sc. Mathematics
Aditya Choubey Memorial Prize	210070014	Atharva Abhijit Tambat	Rs. 4000/- II Yr. B.Tech. Electrical Engg.
S C Mehrotra Prize	200040144	Sunandinee Mehra	Rs. 10000/- Topper of II Yr. B.Tech. Civil
	190040026	Bhuvan Aggarwal	Rs. 10000/- Topper of III Yr. B.Tech. Civil
Prof. A.K. Mallik Award	190110039	Kunind Omprakash Sahu	Rs. 5000/- IV Yr. B.Tech./ Dual Degree Met. Engg. & Mat. Sc.
Shri Ram Kumar Gupta Merit Award	190020007	Akshat Shirish Zalte	Rs. 10000/- IV Yr. B.Tech. Chemical Engg. (Topper)
Shrimati Prakashvati Devi Gupta Merit Award	190020038	Dev Moxaj Desai	Rs. 7500/- IV Yr. B.Tech. Chemical Engg. (2nd Highest)
Praj Industries Academic Excellence Award	19D170027	Sanidhya Anand	Rs. 30000/- (Topper in 3rd yr. (VI semester) UG programme in Energy Sc. & Engg.)
	213170005	Amit Vivek Joshi	Rs. 30000/- (Topper in 1st yr. (II semester) Masters programme in Energy Sc. & Engg.)
Late Prof. R. Subrahmonia Ayyar Academic Excellence Award	190040132	Vivitsa Jain	Rs. 15000/- (Topper female student in B.Tech. 3rd year Civil Engg.)
	213040003	Kumari Prerna Mallik	Rs. 15000/- (Topper female student in M.Tech. 1st year Civil Engg.)
B.K. Nilakhe award	200260021	J V S Shreya	Rs. 5000/- (Topper female student in B.Tech. 2nd year Civil Engg.)
Smt. Jayalakshmi & Sri. R. Narasimhan Award	213040001	Ritik Dhalwani	Rs. 25000/- (Topper student in M.Tech. 1st year Civil Engg.)
Smt. Andal & N.P. Narayanan Award	213040032	Sautrik Chaudhuri	Rs. 20000/- (2nd student in M.Tech. 3rd 1st year Civil Engg.)
Kanitkar 4th year Merit Award	190040026	Bhuvan Aggarwal	2.5 lakh (Topper student in B.Tech. year Civil Engg.)

Dr. Sharad Saraf Appointed As The New Chairperson Of The Institute's Board Of Governors

Dr. Sharad Kumar Saraf, the new Chairperson of the IIT Bombay Board of Governors (BoG)

Dr. Sharad Kumar Saraf, a *Distinguished Alumnus* of IIT Bombay *(B.Tech., 1969, Electrical Engineering)*, has been appointed as the **Chairperson of the Institute's Board of Governors (BoG)**. This is the first time an IIT Bombay alumnus has been bestowed this prestigious status. Dr. Saraf has been a member of the BoG at IIT Bombay for the past four years and is also serving as the Chairperson of the BoG at IIT Jammu. He is currently the Chairman and Managing Director of Technocraft Industries India Ltd., which he co-founded in 1972 along with his brother, Mr. Sudarshan Kumar Saraf, another Distinguished Alumnus of IIT Bombay. The position of Chairperson, Board of Governors, IIT Bombay was earlier held by Dr. Pawan Goenka, Chairperson of INSPACe - Department of Space, Government of India.

Commenting on his recent appointment, **Dr. Saraf** said, *"I am very excited about this new responsibility that I have been granted. This is the first time in history that an alumnus of IIT Bombay has been appointed as the Chairperson of BoG and I think this is a very bold step by the Ministry of Education. My objective as the Chairperson of BoG at IIT Bombay is three-fold: i) To improve the quality of education and student life at IIT Bombay campus, be it enhancing hostel infrastructure or academics; ii) To focus on research work that is relevant and commercially viable; iii) Supporting start-ups, especially those that are being funded by our alumni"*.

Speaking of Dr. Saraf's appointment, **Prof. Subhasis Chaudhuri,** Director, IIT Bombay said, *"It gives me immense joy to see a member of the IIT Bombay family being appointed as the Chairperson of the Institute's Board of Governors. I would like to thank Dr. Pawan Goenka for his visionary leadership that has contributed to IIT Bombay's continued success. I am confident that with his expertise as well as commendable work over the past years, Dr. Saraf will make his alma mater soar to new heights. I look forward to collaborating with him on this shared mission"*.

IIT Bombay Excels In NIRF Rankings 2022

IIT Bombay has secured the **third** position in the **'Overall'** and **'Engineering'** categories and **11th** in the **'Management'** category. It stood **fourth** in the new **'Research'** category of the **National Institutional Ranking Framework (NIRF)**. The result of the 7th edition of NIRF rankings 2022 was announced by the Hon'ble Union Minister of Education, Government of India, **Mr. Dharmendra Pradhan,** on July 15, 2022.

The Institute obtained a score of **82.35, 83.96, 66.25 and 80.21** in the **Overall, Engineering, Management** and **Research** category respectively of the NIRF 2022. The parameters used for NIRF rankings include Teaching, Learning & Resources, Research and Professional Practice, Graduation Outcomes, Outreach and Inclusivity and Perception.

Speaking about IIT Bombay's performance in NIRF Rankings, the Director of the Institute, Prof. **Subhasis Chaudhuri** said, *"IIT Bombay always strives to provide the best all-round career training for all our students and to focus on research and entrepreneurial activities that have greater impacts on our society. Our efforts shall continue and a recognition like this by NIRF will further consolidate our resolve to work harder on these aspects"*.

Last year, the Institute was ranked 3rd in the Overall, Engineering and Research category and tenth in the Management category of NIRF. The NIRF rankings were initiated by the Ministry of Education (then Ministry of Human Resource Development), Government of India in 2015.

IIT Bombay Celebrates Teachers' Day

Chief Guest Prof. Gagandeep Kang, FRS, Professor of Microbiology and Laboratory Director, Division of Gastrointestinal Sciences, Christian Medical College, Vellore addressing the audience during 64th Teachers' Day

Commemorating the birth anniversary of the noted philosopher, educationist and statesman, **Dr. S. Radhakrishnan**, the Indian Institute of Technology Bombay celebrated the 64th Teachers' Day on September 6, 2022 at the Institute campus. **Prof. Gagandeep Kang**, *FRS, Professor of Microbiology and Laboratory Director, Division of Gastrointestinal Sciences, Christian Medical College, Vellore*, was the Chief Guest on the occasion.

The function began with a welcome address by the Institute's Director **Prof. Subhasis Chaudhuri** followed by inauguration of the **Gender Sensitization Programme** – an online training programme for faculty and staff of the Institute. The Gender Sensitization Programme aims to sensitize individuals to broader issues of gender discrimination and inequality. The programme also involved the presentation of awards, including the ***International Award for Excellence in Research in Engineering and Technology; Professor S.C. Sahasrabudhe Life Time Achievement Award; Professor S.P. Sukhatme Award for Excellence in Teaching and Dr. P. K. Patwardhan Technology Development Award (2021).***

In his welcome address, Director of the Institute **Prof. Subhasis Chaudhuri** said, *"While it is gratifying for us to be recognized as teachers on this special day, it also entrusts us with a greater responsibility: that we continue to be good students ourselves to learn new concepts and help the future generation of students"*.

The **IIT Bombay International Award for Excellence in Research in Engineering and Technology** (instituted by **Mr. Sandeep Naik and Mr. Shantanu Rastogi**) was conferred on **Dr. Santosh Ansumali**, *Professor, Jawaharlal Nehru Centre for Advanced Scientific Research*, in commendation of his outstanding contributions to research in engineering and technology.

Dr. Santosh Ansumali, Professor, Jawaharlal Nehru Centre for Advanced Scientific Research, receiving the first-ever IIT Bombay International Award for Excellence in Research in Engineering and Technology for his outstanding contributions to research in engineering and technology

The Teachers' Day function also witnessed the **Professor S.C. Sahasrabudhe Lifetime Achievement Award** of IIT Bombay being bestowed on **Prof. A.K. Suresh** from the Department of Chemical Engineering, in recognition of his contributions to the Institute.

The Chief Guest, Prof. Gagandeep Kang, FRS, also conferred the **Professor S.P. Sukhatme Award for Excellence in Teaching and Dr. P. K. Patwardhan Technology Development Award (2021) to select faculty** members as a recognition of the contributions made by them in the fields of teaching and research.

Prof. A.K. Suresh (L), Department of Chemical Engineering, receiving the Professor S.C. Sahasrabudhe Lifetime Achievement Award in recognition of his contributions to the Institute

The recipients of the Prof. S.P. Sukhatme Excellence in Teaching Award 2022 were:

Prof. Sandesh Ramu, IDC School of Design

Prof. Surya Durbha, Centre for Studies in Resources Engineering

Prof. Rangan Banerjee, Department of Energy Science and Engineering

Prof. Sumant Rao, IDC School of Design

Prof. U. Anandavardhanan, Department of Mathematics

Prof. Abhiram Ranade, Department of Computer Science and Engineering

Prof. Sreedhara Sheshadri, Department of Mechanical Engineering

Prof. Parag Kumar Chaudhuri, Department of Computer Science and Engineering

Prof. Parag Bhargava, Department of Metallurgical Engineering and Materials Science

Prof. Ravi Sinha, Department of Civil Engineering

Prof. Usha Ananthakumar, Shailesh J. Mehta School of Management

Prof. Varadraj Bapat, Shailesh J. Mehta School of Management

Prof. Bernard Menezes, Department of Computer Science and Engineering

Prof. Kishore Chatterjee, Department of Electrical Engineering

Prof. Krishnaiyengar Narasimhan, Department of Metallurgical Engineering and Materials Science

Dr. P. K. Patwardhan Technology Development Award (2021) was awarded to **Prof. Debjani Paul and her team**, Department of Biosciences and Bioengineering, in recognition of their innovative R&D work on *"ShapeDx: A high-accuracy, point-of-care sickle cell test"*.

Sharing her own experience on the occasion, the Chief Guest of the function **Prof. Gagandeep Kang** said, *"I have now taught for thirty-five years and if I have influenced any of my students as my teachers influenced me, I can have no greater source of joy and achievement. In my institution, as here at IIT, teachers and students come from all over the country and we have a similar purpose of transformation. Ours is in health and IIT Bombay's vision is to generate new knowledge for society and industry and create leaders and innovators. This you have done in ample measure and I hope you will continue to meet the high standards you and others expect of IIT Bombay"*.

One of the highlights of the programme involved recognizing the top-performing students of each class. About **60 students were felicitated** by the Institute Director Prof. Subhasis Chaudhuri, for their superlative academic performance.

The Teachers' Day function was attended by the Dean (Academic Programmes) **Prof. Avinash Mahajan,** Dean (Faculty Affairs) **Prof. Neela Natraj,** Dean (Research and Development) **Prof. Milind Atrey,** Heads of Departments, faculty members and students in large numbers.

About Gender Sensitization Module:

Gender in the Workplace is an online training programme for all faculty and staff of the Institute. An appropriate version has already been launched as mandatory for all students of IIT Bombay. A team led by the previous convenor and co-convenor of the Gender Cell worked for more than two years on the in-house creation, direction, production and translation of these online modules on gender sensitization and sexual harassment. The modules have been reviewed by various faculty and staff members in the Institute and their suggestions have been incorporated. The programme aims to sensitize individuals to broader issues of gender discrimination and inequality.

The training programme is structured into four modules:

The **first** introduces the overall context, the themes and the content; the **second** focuses on what sexual harassment is; how to recognize it and its different types through typical situations. It talks about why sexual harassment is so widespread in society and in our educational campuses. It discusses the systemic issues of patriarchy, power and gender discrimination that play a role in and are a product of the society that we live in and emphasizes the need to understand these in order to change attitudes and tackle sexual harassment seriously. **Module three** brings out the background of the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) law of 2013 and shows that while mechanisms to address sexual harassment exist, individual awareness and action are important in tackling it. **Module four** has scenarios that help to synthesize and critically apply what has been learned earlier in the programme.

The modules have various reflection spots and activities followed by feedback, from which participants can reflect on and apply what they have learned as they progress. Resources for additional information on different topics are also provided. Overall, the goal of this training programme is to create a gender-sensitive atmosphere in IIT Bombay where everyone looks out for one another as a friend, an acquaintance, a mentor, a colleague, or a member of the institute. For more, please visit: www.gendercell.iitb.ac.in

The recipients of the Prof. S.P. Sukhatme Excellence in Teaching Award 2022 along with Chief Guest Prof. Gagandeep Kang (C) and IIT Bombay Director Prof. Subhasis Chaudhuri (C)

IIT Bombay Establishes First-Of-Its-Kind Chair Professorship In Applied Statistics

IIT Bombay alumnus Dr. Viswanath Ramachandran (B.Tech., Computer Science and Engineering, 1991) and Prof. Ravindra Gudi, (Dean Alumni and Corporate Relations) during signing of the MOU

IIT Bombay signed a Memorandum of Understanding (MoU) with its alumnus **Dr. Viswanath Ramachandran** (B.Tech., Computer Science and Engineering, 1991) to establish the *"Dr. K. V. Ramachandran Chair for Statistics and Mathematics"* in honour of the donor's father, on August 19, 2022. The MoU is the *first-of-its-kind Chair Professorship* that will be set up at the Institute in the field of *Applied Statistics.*

This Chair Professorship will support education and research in Statistics and Mathematics and will encourage faculty to make ground-breaking contributions to the discipline through fundamental and applied research. The Chair will also encourage Master's and

Ph.D. students in these domains to undertake research, participate in competitions, provide internship opportunities, as well as collaborate with industry and government organisations for R&D.

IIT Bombay's alumni have consistently played a key role in the continued success of their alma mater. IIT Bombay is grateful to Dr. Viswanath for his philanthropic contribution which will accelerate the Institute's larger mission to emerge as a global leader in the field of Statistics and Mathematics.

Dr. P. K. Patwardhan Technology Development Award Presentation

Prof. Debjani Paul, Department of Biosciences and Bioengineering, the recipient of **Dr. P. K. Patwardhan Technology Development Award 2021**, gave a presentation on her R&D work titled *"ShapeDx: A high-accuracy test to diagnose sickle cell disease at the point of care"* on August 25, 2022.

IIT Bombay Inaugurates A Brand New Version Of Hostel 5

IIT Bombay alumnus Mr. Dhananjay Saheba (B.Tech., Electrical Engineering, 1977) during launch of new version of Hostel 5

One of IIT Bombay's earliest and prestigious hostels - **Hostel 5 (H5)** - has been renovated with modern facilities to accommodate the ever-increasing annual intake of students at the Institute. A formal ceremony was held on July 22 at IIT Bombay's campus to mark the inauguration of the newly refurbished Hostel 5. The event was attended by several hostel alumni, faculty members and students from IIT Bombay.

Speaking on the occasion, **Prof. S. Sudarshan**, Deputy Director, Academic and Infrastructural Affairs (AIA), IIT Bombay said, *"The well-being of our students is our top-most priority. The Institute continually strives to provide a holistic, safe and comfortable environment to our students that can enhance their living and learning journey on campus. The Hostel 5 enhancement project is a vital step towards this mission. It brings me immense joy to witness Hostel 5's transformation over this past year. IIT Bombay is grateful to its alumni for their time, expertise and efforts, which have borne fruit today".*

The upgraded building will cater to the student community's varied boarding and lodging needs and enhance their overall living experience at the Institute. The revamped hostel boasts of modern air-conditioned study rooms, additional restrooms and freshly painted walls, among other key provisions.

Mr. Girish Nayak, Chairperson, IIT Bombay Alumni Association (IITBAA), while commenting on the project said, *"This is a unique pilot between the Alumni Association and the alumni, where the project was conceptualized, funded, designed and executed. The success of this project has fueled the even more ambitious Project EverGreen, where the alumni, through the Alumni Association, would fund, design, build and hand over to the Institute, an 1100-seater hostel at a cost of around Rs. 150 crore".*

Mr. Vinay Karle, an alumnus of the hostel and President, IIT Bombay Heritage Foundation, while speaking about the hostel said, *"This was a first of its kind initiative - by the alums, of the alums and for the future alums - working closely with the Institute and IITBAA. It was truly heartening to see the enthusiasm and spontaneity among alumni as they generously contributed time, treasure and talent for this project".*

About Hostel 5 Enhancement Project

The Hostel 5 enhancement project is a joint initiative between IIT Bombay, IIT Bombay Alumni Association (IITBAA) and IIT Bombay Heritage Foundation (IITBHF). This first-of-its-kind project was led completely by the Hostel 5 alumni from batches 1964 to 2019 and they were involved with every aspect of the renovation. Under the stewardship of H5 alumni **Mr. Ajit Jawle** (Civil Engineering, 1977); **Mr. Suhas Mehta** (Civil Engineering, 1983); **Mr. Nitin Doshi** (Civil Engineering, 1979); **Mr. Nandkishore Nemade** (Chemical Engineering, 1982) and **Mr. Dhananjay Saheba** (Electrical Engineering, 1977), the group successfully raised Rs. 5.5 crore and commenced the enhancement of H5 in June 2021.

IIT Bombay Establishes Trust Lab To Make India Digitally Secure

IIT Bombay alumnus Dr. Shridhar Shukla (B.Tech., Electrical Engineering, 1983) and Director Prof. Subhasis Chaudhuri (C) along with other Institute dignitaries

IIT Bombay launched a foundational initiative called the **'IIT Bombay Trust Lab'** on September 15, 2022. The Trust Lab's vision is to be a leading contributor to the demanding enterprise of creating a more trustworthy digital environment for today and the future as well as work towards a secure and responsible Digital India. As the latest step in IIT Bombay's mission of creating world-class research ecosystems in key technology areas, the Trust Lab is being established with the generous contribution made by the Institute's alumnus **Dr. Shridhar Shukla** (B.Tech., Electrical Engineering, 1983). The Lab will be set up at IIT Bombay's Department of Computer Science and Engineering (CSE). It will be headed by **Prof. Manoj Prabhakaran,** Vijay and Sita Vashee Chair Professor at IIT Bombay.

The Lab will drive several activities related to research, education, development, outreach and entrepreneurship by leveraging IIT Bombay's expertise in the domains of security, privacy and, more broadly, digital trust. The Lab will focus on developing foundational science, building new technologies and fostering a digital trust ecosystem through educational activities and by translating the scientific advances made at the Lab into technology and policy inputs to meet industrial and societal needs.

Speaking about the 'IIT Bombay Trust Lab', **Prof. Subhasis Chaudhuri,** Director, IIT Bombay said, *"With digital experiences rapidly becoming an integral part of our lives, security, privacy, population-scale access and usability, citizen empowerment etc. become fundamental enablers for a safe and prosperous society and nation. The establishment of the 'IIT Bombay Trust Lab' will allow the Institute to take the lead in the digital trust domain and support nation-building significantly. We are deeply grateful to Dr. Shukla for his generosity that has enabled the Institute to take a huge step forward in this direction and accelerate its mission of playing a key role in solving national and global challenges".*

Commenting on his contribution towards the establishment of the 'IIT Bombay Trust Lab', **Dr. Shridhar Shukla** said, *"India is leading the world in going digital at population scale. As we do that, Digital Security becomes as critical as food, energy and border security. The IITB Trust Lab is all about building a strong foundation for Digital Security and more broadly Digital Trust".*

Presenting his views on the 'IIT Bombay Trust Lab', **Prof. Manoj Prabhakaran** said, *"A trustworthy digital world is a grand challenge for our times, involving domains ranging from silicon to civilization. One of the primary thrust areas at the Trust Lab is to develop a 'Science of Trust' that can also span this vast range, by bringing experts from different disciplines together under one roof. We are also sensitive to the immediate needs of the industry and the users and will work on building new technologies and on strengthening the digital trust ecosystem in India".*

Van Mahotsav 2022

Director of IIT Bombay Prof. Subhasis Chaudhuri along with students planting a sapling during the celebration of Van Mahotsav

In an endeavour toward maintaining the green cover of the campus and spreading the message of conserving nature, the Indian Institute of Technology Bombay celebrated **Van Mahotsav** – the annual tree plantation drive on July 30, 2022 on its campus. About 400 saplings were planted by IIT Bombay faculty, staff and students along with students and teachers of Kendriya Vidyalaya and Campus School (both located within the IIT Bombay campus). The saplings were planted on the hill slope behind the Udaygiri building within IIT Bombay campus.

On occasion, Director **Prof. Subhasis Chaudhuri** along with Deputy Director (Academic and Infrastructural Affairs) **Prof. S. Sudarshan** and Deputy Director (Finance and External Affairs) **Prof. KVK Rao** planted saplings of Ashoka. Prof. Chaudhuri spoke about the significance of trees in our lives and encouraged the students to help build a greener environment by planting more trees.

Prof. Tom Mathew, Dean (Infrastructure Planning and Support), IIT Bombay was also present along with **Prof. Anurag Garg,** Associate Dean (IPS) – 1 and **Prof. Vedagiri Perumal**, Associate Dean (IPS) – 3. Together, they encouraged the participants to develop a sense of responsibility for the saplings.

Cultural performances by the students of Campus School and Kendriya Vidyalaya, highlighting the importance of trees in our lives, were much appreciated by the gathering. The event was organized by the Horticulture Section of the Estate Office, IIT Bombay, which takes due care of the saplings planted at Van Mahotsav throughout the year.

IIT Bombay Celebrates Independence Day

IIT Bombay celebrated Independence Day on August 15, 2022. The celebration began with the hoisting of the national flag by the Institute's Director **Prof. Subhasis Chaudhuri** at 9.30 a.m. Later he addressed the gathering. The entire programme was broadcast live on YouTube Channel. Students also participated in a cultural programme on the occasion.

As part of Azadi Ka Amrit Mahotsav (75 years of India's Independence), IIT Bombay had arranged **Akhand Deep (Lighting of lamp)** in remembrance of martyrs of the Indian Freedom Struggle in the Main Building during August 13-15, 2022. Director Prof. Subhasis Chaudhuri and Registrar **Mr. Ganesh Bhorkade** lit the Akhand Deep at 10 am on August 13, 2022 in presence of other Institute employees.

On the occasion, the Institute had also made arrangements to showcase films on **National War Memorial** and **"Partition Horrors Remembrance Day"** **(August 14)** at the same venue for three days.

IIT Bombay is extremely glad to have recreated the **Dandi Memorial** on campus. 24 murals of Gandhiji and Satyagrahis had been placed on the lawn facing the Main Building. IIT Bombay is proud to have been associated with this monument of national importance located in Gujarat, with the coordinated efforts of a number of faculties, who extended their valuable engineering, technology and design contributions to building this memorial as a tribute to the 1930 Dandi March led by Mahatma Gandhi and 80 of his fellow Satyagrahis. These 24 narrative murals depict the events and stories of the historic 1930 Salt March.

Prabhat Pheri

National Cadet Corps (NCC) IIT Bombay organised Prabhat Pheri as part of the Azadi Ka Amrit Mahotsav, to commemorate 75 years of independence. The rally started from Hostel 12 premises at 6 am. More than 100 people marched while holding a tricolour and chanting patriotic songs. The rally ended at the Main Gate.

NCC IIT Bombay presents

SWARANJALI

This independence day,
let's give a tribute to our motherland

Upload a video singing National Anthem, "Jana Gana Mana"
Submit your entry by: 7th August, 11:59 pm

To be a part,
scan the QR above!

Swaranjali - A Musical Tribute

NCC had arranged Swaranjali, an effort to compile the voices and videos of all the residents of IIT Bombay singing the National Anthem together and streaming the compiled video. **This compilation was streamed before the movie screening and also released on** all social media platforms.

Tiranga March

With the help of thousand plus students, staff and faculty, NCC unfurled a 1000 feet tricolor. With immense coordination and communication, the flag was marched through the roads of IIT Bombay. Holding the flag up and chanting slogans, everyone paid tribute to the tricolor and the soldiers who laid down their lives for our nation.

Schools

As a part of *'Har Ghar Tiranga'* campaign and Independence day celebration, various competitions, including elocution, essay writing and drawing were conducted by the **IIT Campus School & Junior College, IIT Powai**. School students also performed a small skit on the theme *'Har Ghar Tiranga, Ghar Ghar Tiranga'*.

Kendriya Vidyalaya, IIT Powai, Mumbai organised a 'Har Ghar Tiranga' campaign from August 13-15, 2022 as a part of 'Azadi ka Amrit Mahotsav' and Independence Day. Around 689 students participated in the **'Prabhat Pheri'** organized during August 13-15, 2022. The students and teachers of the school presented a unique example of love and passion for the country by taking out a 'Prabhat Pheri' holding the Tricolour in their hands. Poster Making competition was conducted for Classes VI to IX in which almost 406 students participated enthusiastically.

Team Shunya

ROOTS OF FREEDOM

TEAM SHUNYA
Building a sustainable future

On ocassion of Independence Day, Team Shunya along with various institute bodies enthusiastically planted over 250 plants nation wide as a small step towards Green India.

Team SHUNYA in collaboration with NSS and Sustainability Cell at IIT Bombay, GreenLine NGO, Technology Environment Society at IIT Kharagpur, Social Service Club and Students' Welfare Board at IIT Guwahati, and Rotary Club at Meghnad Saha Institute of Technology, Kolkata organized the event.

Institute Holds 'Prof. N. R. Kamath Distinguished Institute Lecture'

Prof. Shankar P. Bhattacharyya

The **'Prof. N. R. Kamath Distinguished Institute Lecture'** by IIT Bombay was held in person on campus after a gap of two years. The lecture took place on August 16, 2022 at the Institute's Victor Menezes Convention Centre (VMCC) and was graced by students as well as faculty in large numbers. The lecture, presented by **Prof. Shankar P. Bhattacharyya,** *Professor of Electrical Engineering, Robert M. Kennedy Professor at Texas A&M University,* was highly informative and interactive and focused on the recent progress in the design of Proportional Integral Derivative (PID) Controller.

Design methods available for PID Controllers – used in the control industry across robotics, aerospace, driverless cars and unmanned autonomous vehicles - until recently, were adhoc. Prof. Bhattacharyya and his colleagues have developed an analytical approach for the design process subject to multiple performance specifications. The lecture covered the significance of first determining the PID stabilizing set for the nominal plant which has played a key role in the possibility of the design. The presentation also described a recently developed novel approach to multiple-Input multi-Output (MIMO) control problems using SISO theory.

IIT Bombay is grateful to Prof. Shankar Bhattacharyya for conducting the lecture and interacting with the attendees.

Memorial Webinar On Birth Anniversary Of Prof. N. R. Kamath

The Institute organized a webinar titled **"Sustainable Urban Mobility"** on the occasion of the birth anniversary of **Prof. N. R. Kamath,** who was the Deputy Director of the Institute from 1960 to 1966 and served as the founding head of the Department of Chemical Engineering from 1959 until his retirement in 1974. The webinar was held on September 28, 2022, highlighting the thoughts and perspectives of experts on sustainable urban transportation.

The speakers, **Prof. K. V. Krishna Rao**, Deputy Director (Finance and External Affairs) and Professor, Department of Civil Engineering, IIT Bombay, gave a talk on *'Sustainable Urban Mobility: Indian Context'*; **Prof. Ram Pendyala,** School Dir. (ACD) & Professor, School of Sustainable Engineering and the Built Environment, Senior Global Futures Scientist, Global Futures Scientists and Scholars spoke on *'Emerging Mobility Options and Technologies for Sustainable Commuting'*; and **Mr. Shankar Deshpande,** Chief of Urban Planning Division, Mumbai Metropolitan Region Development Authority (MMRDA) gave a talk on *'Sustainable Urban Transport and Urban Development in the Mumbai Metropolitan Region'.*

A WEBINAR ON

"Sustainable Urban Mobility"

The Indian Institute of Technology Bombay is organising a webinar titled "Sustainable Urban Mobility", on the birth anniversary of Late Prof. N. R. Kamath.

The details of the Prof. N. R. Kamath Memorial Webinar are given below:

Day & date: Wednesday, Sept 28, 2022   Time: 5:30 pm – 7:30 pm

Venue: VMCC Lecture Hall 22

SPEAKERS

PROF. K. V. KRISHNA RAO
DD FEA, Professor
Department of Civil Engineering,
IIT Bombay

— Title of the Talk —
Sustainable Urban Mobility:
Indian Context

PROF. RAM PENDYALA
Professor and Director, School of Sustainable
Engineering and the Built Environment,
Arizona State University

— Title of the Talk —
Autonomous Vehicles and
the Future of Mobility:
Advancing a Sustainable
Self-Driving Revolution

MR. SHANKAR DESHPANDE
Chief of Urban Planning Division, MMRDA

— Title of the Talk —
Sustainable Urban Transport
and Urban Development in
Mumbai Metropolitan
Region

You are cordially invited to this webinar. Looking forward to your presence.

Scan the QR
YouTube Link for live telecast

Indian Institute of
Technology Bombay

IT Bombay Observes Swachhata Pakhwada

IT Bombay observed Swachhata Pakhwada during September 1-15, 2022. The Institute started a number of initiatives during Swachhata Pakhwada to contribute to a tidy and clean environment by participating in various cleanliness and sanitation-related activities.

1. Administration of Swachhata Pledge

As part of Swachh Bharat Mission, the **'Swachhata Pledge'** was administered to all employees on September 2, 2022 at 10.30 am on the ground floor foyer of the Main Building. The pledge was administered in English by **Ms. Falguni Banjerjee Naha,** Public Relations Officer and in Hindi by **Ms. Vaishali Bahulkar,** Hindi Officer.

2. Campaign to improve wet, dry, sanitary and e-waste segregation at the source

Public Health Office (PHO) has been working to separate various types of solid waste produced on campus at the source. Residents are encouraged to segregate waste into the following 4 parts through door-to-door campaigning and emailers:

a) wet and dry recyclable (e.g. cardboard, milk pouches etc.)

b) dry non-recyclable waste (such as sweeping dust, food-tainted items etc.)

c) sanitary waste (which should be properly wrapped)

d) e-waste

Mosquito control treatment by anti-mosquito spray

Rainwater Harvesting System

3. Awareness campaigns in Kendriya Vidyalaya-IIT Powai and IIT Campus School & Jr. College-Powai

As part of Swachhata Pakhwada 2022, various activities were conducted in Kendriya Vidyalaya, IIT Powai and IIT Campus School & Jr. College, Powai to create awareness among the students regarding the on-going cleanliness drive "Swachh Bharat Abhiyaan". Different competitions were organised for students, including poster making, slogan, drawing and speech on the topics of swachhata, forest conservation, water conservation and and best out of waste.

Apart from above, keeping inline with Swachha Bharat Mission, IIT Bombay organised following activities on its campus throughout the year:

- Wet waste treatment at the source of generation (composting as well as anaerobic digestion)
- Garden waste disposal at source of generation
- Cleaning drive for various places in the campus
- Waste reduction at source by 'zero waste' days in the hostel messes
- Installation of e-waste collection bins in the campus
- Grey water recycling plants
- Introduction of electric vehicle for residents
- Encouragement to keep the toilets clean
- Divyang access to toilets
- Restoration of rain water harvesting system
- Cycle Rally, Powai Lake Cleaning, Eco Bricks and demonstration of on solid waste management project by NCC IIT Bombay
- Powai Lake Clean Up and Ocean Conservation organised by team Abhyuday, IIT Bombay
- Bingo Series, Plastic Recyclothon Awareness Session by team Zero Waste

For more detailed report visit: https://bit.ly/3T28Hst

Hindi Pakhwada - 2022

IT Bombay celebrated 'Hindi Pakhwada' during September 14-29, 2022, beginning with the All India Official Language Conference held at Surat, chaired by **Shri Amit Shah**, Home Minister, Government of India.

During Hindi Pakhawada, various competitions were held by the Hindi Cell, including Hindi debate for students of the Campus School, essay writing, Hindi translation and Hindi quiz for staff and students. Apart from these, an online essay competition was also organized for the faculty members. The competitions witnessed an overwhelming response from the students, staff and faculty alike.

A training session on **"Project Udaan"** for the employees of the Institute was held on September 20, 2022. "Project Udaan" is an AI (Artificial Intelligence)-based end-to-end ecosystem that translates scientific and technical content from English to Hindi and all other Indian languages, built by **Prof. Ganesh Ramakrishnan**, Institute Chair Professor, Department of Computer Science and Engineering and Professor-in-Charge, Koita Centre for Digital Health and his team.

To encourage visitors to read Hindi books, the Central Library organized a three-day Hindi book exhibition during September 19-21, 2022 under the guidance of **Dr. Manju Naika**, Chief Library Officer, Central Library. Various books on management, administration, literature and other important areas were displayed on the occasion. The Registrar of IIT Bombay, **Mr. Ganesh Bhorkade,** along with other Institute officers, employees and students, visited the exhibition.

The prize distribution function to felicitate the winners of the competitions was organized on September 29, 2022. **Prof. S.V. Kulkarni,** Dean (Administrative Affairs), IIT Bombay, was the chief guest on the occasion.

Prof. Ganesh Ramakrishnan and the UDAAN project team; **Dr. K.V. Reghuthaman** [Joint Registrar, Human Resources-2 (Human Capital Management Section)] and his staff members; **Dr. Manju Naika,** Chief Library Officer and the staff members of Central Library were felicitated for their special contributions in Hindi implementation. The employees who did excellent work in Hindi were also honoured on the occasion. The winners of the competitions were presented with certificates and cash prizes.

Hindi Debate Competition Campus School organized on 17 September 2022

Sr. No.	Name	Class	Award
1	Mr. Rohit Neejwala	X	First
2	Ms. Isha Jaiswal	XII	Second
3	Mr. Om Rongate	XII	Third
4	Mr. Suresh Mutul	X	Consolation
5	Ms. Rajnandini Sonkamble	IX	Consolation
6	Ms. Aditi Kamble	IX	Consolation
7	Mr. Aditya Gophane	XI	Consolation

Hindi translation Competition organized on 21 September 2022

Sr. No.	Name	Award	Sr. No.	Name	Award
1	Mr. Tushit Kumar	First	5	Mr. Ashish Patil	Consolation
2	Mr. Ravi Ranjan Kumar	Second	6	Ms. Archana Joshi	Consolation
3	Mo. Naseem	Third	7	Mr. Shekhar Singh	Consolation
4	Dr. Varsha Mahesh Kosta	Consolation			

Hindi Quiz Competition organized on 22 September 2022

Sr. No.	Name	Award	Sr. No.	Name	Award
1	Mr.Tushit Kumar	First	6	Ms. Aarti Bhagat	Consolation
2	Mr. Jitendra Kumar Jain	Second 1	7	Dr. Varsha Mahesh Kosta	Consolation
3	Mr.Ravi Ranjan Kumar	Second 2	8	Mr. Omesh Krishna Sharma	Consolation
4	Mr. Shekhar Singh	Third			
5	Ms. Sanjeeda Raees	Consolation			

Essay Competition for Staff organized on 23 September 2022

Sr. No	Name	Award	Sr. No	Name	Award
1	Dr. Varsha Mahesh Kosta	First	5	Ms. Ashwini Chavan	Consolation
2	Mr. Shekhar Singh	Second	6	Mr. Tushit Kumar	Consolation
3	Ms. Sanjeeda Raees	Third	7	Mr. Omesh Krishna Sharma	Consolation
4	Mr. Jitendra Kumar Jain	Consolation			

Essay Competition for IITB Students organized on 23 September 2022

Sr. No.	Name	Award	Sr. No	Name	Award
1	Mr. Lohitaksha Mahajan	First	4	Ms. Sonia Bisht	Consolation
2	Mr. Vibhu Verma	Second	5	Mr. Yashwant Yadav	Consolation
3	Ms. Pratiksha Sonkar	Third			

Faculty Essay Competition (Online)

Sr. No.	Name	Award
1	Prof. Vinesh Kathuria	First

Officers and employees doing excellent work in Hindi in Hindi fortnight for the year 2021-22

Sr. No.	Name	Sr. No.	Name
1	Mr. Ganesh Ranganath Sanap	8	Ms. Akshata Rajesh Nandoskar
2	Mr. Raoji Suresh Paradkar	9	Ms. Prachi Ajay Kumbhare
3	Mr. Tushit Kumar	10	Ms. Archita D Patkar
4	Ms. Priyanka Vaibhav Patil	11	Ms. Ashwini Shirsat
5	Ms. Jaya Ravi Karwanje	12	Ms. Sudha Rohit Tiwari
6	Mr. Soham Sikdar	13	Mr. Mukesh M. Phansekar
7	Ms. Madhura Vinayak Shingade	14	Dr. Jyoti Prasad Maharana

Hindi word game competition

Sr. No	Name	Award	Sr. No	Name	Award
1	Mr. Adarsh Shukla	First	5	Mr. Ayush Saxena	Second
2	Mr. Animesh Pachauri	First	6	Mr. Shubham Sinha	Third
3	Mr. Manish Singh	First	7	Mr. Nikhil	Third
4	Mr. Vikram Gaikwad	Second			

Prof. S.V. Kulkarni, Dean (Administrative Affairs), IIT Bombay felicitating Dr. K.V. Reghuthaman [Joint Registrar-Human Resources-2 (Human Capital Management Section)] and his staff members for their special contribution in Hindi implementation

Prof. Ganesh Ramakrishnan (Institute Chair Professor, Department of Computer Science and Engineering and Professor-in-Charge, Koita Centre for Digital Health) felicitating Dr. Manju Naika, Chief Library Officer, Central Library and staff members for their special contribution in Hindi implementation

Campus School student winners of Hindi debate competition along with their teachers

IIT Bombay Registrar Mr. Ganesh Bhorkade inaugurating the book exhibition during the Hindi Pakhwada at Central Library

IIT Bombay Celebrates International Day Of Clean Air For Blue Skies

To address the need for collective understanding, accountability and action to solve the pernicious issue of poor air quality in India, IIT Bombay celebrated the *International Day Of Clean Air For Blue Skies* on September 7, 2022 through two events at the school level and at the Institute level.

(A) Half-day event organized by ESEA, ESED

The Environmental Science and Engineering Association (ESEA) organized a three-hour, flash presentation series was for students in the boarder research area of air quality. A total of 18 students from the Environmental Science and Engineering Department, Department of Aerospace Engineering, Department of Chemical Engineering, Centre for Urban Science and Engineering and Interdisciplinary Program in Climate Studies participated in this event. They presented their ongoing research in 5-7 minute long presentations that were followed by a discussion panel. The topics were diverse and ranged from characterization of emissions sources, low-cost monitoring, air quality modelling, environmental justice and indoor air quality. The three house session saw 40-50 attendees. All participants actively interacted in the panel discussions and helped towards capacity building by identifying knowledge sources and resources in the larger peer group.

(B) Essay writing in schools

An essay writing contest was conducted on the topic of air pollution. 32 students in the 8th, 9th and 10th grade age-group from the Kendriya Vidyalaya School and 20 students from the Campus School participated in the event. These students provided very well-written, informative and insightful essays on why air pollution is an issue affecting all of us and identified strategies to help solve it for the city of Mumbai. The participants were awarded a participation certificate and highlights from their essays were featured on social media platforms managed by Environmental Science and Engineering Association (ESEA).

Apart from the above events, the faculty of Air Resources Group, Environmental Science and Engineering Department (ESED), IIT Bombay contributed and participated in various events/ workshops.

IIT Bombay Partners With JSW Group To Establish First-Of-Its-Kind, State-Of-The-Art Technology Hub For Steel Manufacturing In India

Prof. Subhasis Chaudhuri, Director, IIT Bombay and Mr. Seshagiri Rao, Joint Managing Director and Group Chief Financial Officer, JSW Steel during signing of the MOU

- To develop industrial applications and solutions for the Indian steel industry

- JSW and IIT Bombay will also collaborate on research, training and technical studies on new and emerging steel technologies

- The Sajjan Jindal Steel Professor Chair to be instituted at IIT Bombay for a progressive interdisciplinary and translative approach to advance research in sustainable steel manufacturing and its use

On August 18, 2022, IIT Bombay, India's premier engineering and technology Institute and US$ 22 billion JSW Group, India's leading business conglomerate with interests in Steel, Energy, Infrastructure, Cement, Paints, E-commerce, Sports and Venture Capital, have entered into an exclusive strategic agreement to establish a first-of-its-kind, state-of-the-art JSW Technology Hub in India for steel manufacturing in India. JSW Steel is a leading steel company in the country and the flagship business of JSW Group.

IIT Bombay, an *"Institution of Eminence"*, has created 'The Centre of Excellence in Steel Technology (CoEST)' through support from the Ministry of Steel, the Government of India and other industry partners. The JSW Technology Hub will be established within the CoEST with the key objective of achieving a rapid expansion of quality steel production while maintaining carbon emissions within the target levels. The partnership with IIT Bombay will also allow JSW Group to undertake and intensify R&D efforts in the Steel sector to develop competent capabilities in the area of steel technology for the Indian conglomerate. The JSW Technology Hub will also be the nodal point for JSW Group's research activities beyond the steel domain.

According to the Agreement signed between IIT Bombay and JSW Group:

1. JSW will provide financial and technical support to establish and build the JSW Technology Hub with state-of-the-art infrastructure to undertake a wide range of R&D for steel manufacturing and its use. The Centre will be constructed using JSW Neosteel Rebars ranging from 8mm to 36mm diameters with Fe550D grade. IIT Bombay is expected to complete the construction of the JSW Technology Hub by FY28.

2. IIT Bombay and JSW Group will leverage the JSW Technology Hub to jointly conduct inter-disciplinary research projects and technical activities on various aspects of steel manufacturing and its use.

3. The Technical collaboration allows IIT Bombay and JSW to undertake Research and Training projects to develop patented industrial applications and solutions. JSW could decide to operationalize as well as commercialize these industrial applications in the future.

4. A Joint Steering Committee will be established with representation from IIT Bombay and JSW Steel. This Committee will steer the IIT Bombay-JSW Technical collaboration.

5. IIT Bombay will also establish the Sajjan Jindal Steel Professor Chair to enable focused training and research on new and emerging technologies in steel manufacturing. The institution of this Chair would help IIT Bombay adopt an interdisciplinary, collaborative, synergetic and translative approach to consistently advance research and address application-oriented demands from the industry, society as well as the government. The Chair would strive to leverage the existing knowledge base and provide a platform for further innovation and scale.

According to **Mrs. Sangita Jindal, Chairperson of JSW Foundation,** *"Our strategic partnership with IIT Bombay is one-of-its-kind industry-academia collaboration for advancement of research in steel manufacturing. This powerful combination will jointly leverage IIT Bombay's knowledge-rich faculties and JSW's technical capabilities to develop novel industrial applications for steel manufacturing with a focus on low carbon emissions. This partnership will also initiate new academic courses while consolidating existing courses. We will also provide academic and technical leadership in broad areas of research while working towards increasing steel consumption in the country".*

According to **Mr. Seshagiri Rao, Joint Managing Director and Group Chief Financial Officer, JSW Steel,** *"We continue to innovate across our business operations, be it in the way we diversify our product portfolio, focus on technology adoption and reduction in carbon emission intensity across our operations. Our thrust on R&D and product development have made us the largest and preferred supplier across categories be it in automotive with our advanced high-strength steel products, in food packaging category through our tinplate products, in white goods through our corrosion-resistant steel products etc. JSW Group's strategic partnership with IIT Bombay is a progressive step on our ongoing journey to be future-ready and equip ourselves to continue delivering sustained value to all our stakeholders".*

According to **Prof. Subhasis Chaudhuri, Director, IIT Bombay**, *"Our CoEST has the vision to facilitate the Indian steel sector to become a world leader. This agreement with JSW Group will help to further strengthen our efforts in this direction. Through this partnership, we would like to achieve rapid scale-up of quality steel production while enabling India to meet its sustainability goals by keeping carbon emissions within targeted levels".*

'Kadayam S. Srinivasan' And 'Harivallabh Nagar' Micro-Factories Inaugurated On Campus

IIT Bombay inaugurated its first-ever micro-factories **'Kadayam S. Srinivasan Micro-Factory'** and **'Harivallabh Nagar Micro-Factory'** on August 12, 2022 with a formal event held on campus. The inauguration buzzed with excitement as several Institute alumni, faculty members and students graced the occasion and took in the newly established facilities on campus.

The event began with the ribbon-cutting ceremony and the unveiling of the plaque for the micro-factories. The attendees then enjoyed a special tour of the premises. Some of the dignitaries present at the occasion then addressed the guests. These include

'Kadayam S. Srinivasan Micro-Factory' and 'Harivallabh Nagar Micro-Factory' inaugurated on the campus

Prof. Subhasis Chaudhuri, Director, IIT Bombay; founders of the micro-factories and Institute alumni - **Mr. Balaji Srinivasan** (B.Tech., Chemical Engineering, 1993) and **Mr. Sumeet Nagar** (B. Tech., Mechanical Engineering, 1993); **Prof. Varun Bhalerao**, Associate Professor, Department of Physics and **Prof. Darshan Shah**, Assistant Professor, Department of Mechanical Engineering - who are part of the core team overlooking the micro-factory project and Dean (Alumni and Corporate Relations) **Prof. Ravindra D. Gudi**.

The micro-factories - the first step in IIT Bombay's larger Makerspace initiative - will expose students to the latest design and manufacturing practices and advanced facilities which are on par with those found in real-world industrial setups. The objective of the initiative is to provide students with the opportunity to learn synthesis apart from analysis. In addition to using the micro-factories for their core academic work, students would be provided with an opportunity to use them for a wide range of extracurricular activities.

IIT Bombay is grateful to our alumni Mr. Balaji Srinivasan and Mr. Sumeet Nagar for their generosity and vision in setting up the micro-factories.

IIT Bombay's Holds Annual CSR Conclave 2022

Tech for Sustainable Development- IIT Bombay's Annual Corporate Social Responsibility (CSR) Conclave 2022 was held at VMCC at the Institute's campus on July 6, 2022. A significant number of India's biggest corporates attended the conclave and made it a huge success. Throughout the day IIT Bombay demonstrated its forays into ground-breaking research and infrastructure projects currently underway at the Institute that can be supported

through CSR initiatives. Corporates in attendance were very responsive and appreciative of the Institute's efforts in this domain.

Mr. Amarjeet Sinha, Former Advisor in the Prime Minister's Office and Retired IAS officer, presided over the event as the Chief Guest in virtual mode. **Ms. Sujata Saunik** (IAS), Additional Chief Secretary, General Administration Department (GAD), Government of Maharashtra (India) and Takemi Fellow, Harvard University, graced the conclave as the Guest of Honour.

Ground Breaking Ceremony Of HSS Annex Building

IIT Bombay performed the groundbreaking ceremony of its new Humanities and Social Sciences (HSS) Annex Building on August 24, 2022. The Institute's alumnus **Mr. Abhay Pandey** (B.Tech., Computer Science and Engineering, 1993), Co-founder and General Partner at A91 Partners (a late-stage venture capital firm) as well as **Dr. Sharad Saraf** (B.Tech., Electrical Engineering, 1969), Chairperson, Board of Governors and a Distinguished Alumnus and his brother Distinguished Alumnus **Mr. Sudarshan Saraf** (B.Tech., Mechanical Engineering and Manufacturing Engineering, 1970), also owners of Technocraft Industries India Ltd., have generously contributed to the HSS Annex Building project.

Prof. Subhasis Chaudhuri, Director, IIT Bombay, extended a warm welcome to the guests. This was followed by a video presentation featuring Dr. Sharad Saraf, who shared his perspective on the importance

Institute's alumnus Mr. Abhay Pandey (third from left) and Director Prof. Subhasis Chaudhuri (sixth from left) along with other IIT Bombay dignitaries during groundbreaking ceremony of HSS Annex building

of the HSS Annex Building project. Mr. Pandey addressed the audience and spoke about the crucial role that IIT Bombay has played in his professional and personal growth. He further articulated his vision towards his contribution and that this is a small gesture on his part to repay his alma mater.

Mr. Sudarshan Saraf shared his thoughts on how the HSS Annex Building will play a key role in IIT Bombay's academic advancement. The ceremony concluded with a vote of thanks by **Prof. Ravindra D. Gudi,** Dean (Alumni and Corporate Relations).

The HSS Annex Building, as envisioned by Mr. Abhay Pandey, will strengthen the B.S. Economics programme at IIT Bombay. In addition, the facility will conduct classes in the Humanities and Social and Behavioural Sciences. Upon its completion, the HSS Annex Building will also be the future home of the **Technocraft Centre for Applied Artificial Intelligence (TCA2I)**, supported by Technocraft Industries.

IIT Bombay is thankful to its alumni for their generosity towards their alma mater's continued progress.

IIT Bombay Hosts US Treasury Deputy Secretary Wally Adeyemo

Mr. Wally Adeyemo, Deputy Secretary of the US Department of Treasury (Centre) along with Prof Subhasis Chaudhuri, Director, IIT Bombay and Prof. Santosh Gharpure, SINE PiC

IIT Bombay had the pleasure of hosting Deputy Secretary of the US Department of Treasury **Mr. Wally Adeyemo** and senior members of the US Consulate General Mumbai on August 24, 2022. The Deputy Secretary visited Society for Innovation and Entrepreneurship - SINE, IIT Bombay and had a round table interaction with entrepreneurs and student innovators. IIT Bombay Director **Prof. Subhasis Chaudhuri** and Society for Innovation and Entrepreneurship (*SINE*) Professor-in-Charge (PiC) **Prof. Santosh Gharpure** highlighted the contribution of IIT Bombay's innovations to the startup ecosystem in the country.

IIT Bombay Honours Its Women Alumni Through A First-of-its-Kind Initiative; Falguni Nayar And Diana Edulji In Attendance

Felicitated IIT Bombay women alumni achievers along with Falguni Nayar, Founder and CEO of Nykaa (ninth from left); and Diana Edulji, Padma Shri awardee and the former captain of the Indian Women's Cricket Team (seventh from left) during 'IIT Bombay Gen Zero Women Initiative' event

IIT Bombay honored and celebrated the exceptional achievements of 30 of its women alumni with a special event, the **'IIT Bombay Gen Zero Women Initiative'**, held at the IIT Bombay campus on Friday, September 23, 2022. The Institute felicitated its women alumni who represent the initial years of IIT Bombay since its establishment in 1958. A coffee table book, **'Her Story- IIT Bombay Gen Zero Women,'** written by **Ms. Rashmi Bansal** (author of the best-selling book Stay Hungry, Stay Foolish) and a podcast series, highlighting the inspiring journeys of these accomplished women from diverse fields such as research, business, academia, technology, public service and more were launched during this inspiring occasion.

Padma Shri awardee and former captain of the Indian Women's Cricket Team **Ms. Diana Edulji,** and Founder and CEO, Nykaa, **Ms. Falguni Nayar,** presided over the event.

The occasion culminated with a lively and spirited Q&A session as the young, curious and bright minds of IIT Bombay interacted with Ms. Edulji as well as the Institute's women alumni achievers.

Learn more about the women alumni and their journeys here: https://alumni.acr.iitb.ac.in/womengenzero/herstory.html

Speaking at the occasion, **Ms. Falguni Nayar,** said, *"It is heartening to see the progress we have collectively made towards true equality - at the workplace and everywhere else. I believe women can do anything they set their minds to. Don't let others dictate your path. Trust your gut and take calculated risks. Take the plunge into whatever it is you*

choose to do, at whatever point of your life. No matter what the switch, your previous experience will always bring with it transferable skills and connections that you can use as stepping stones".

Sharing her thoughts, **Ms. Diana Edulji** said, *"For the longest time, cricket was perceived as a gentlemen's game. As someone who loved cricket, I had to break many barriers and find my own way to get past that mindset. Since then, my aim has been to encourage and support more women to pursue the sport. It is only when we all come together – collectively as a society – that we will be able to bridge the gender disparities that exist globally, not just in sports but in various other fields as well. The 'IIT Bombay Gen Zero Initiative' celebrates the power of women and is a cause that holds a special place in my heart. I firmly believe that more of these initiatives will encourage women to believe that nothing is impossible and allow them to follow their dreams".*

Talking about the 'IIT Bombay Gen Zero Women Initiative,' **Prof. Subhasis Chaudhuri,** Director, IIT Bombay, said, *"With their extraordinary accomplishments, our alumnae have inspired the present and future generations at the Institute to break more glass ceilings and we are extremely proud of their dedication, commitment and resilience. The Institute is dedicated to the cause of gender equality and hopes that more women will be inspired by these trailblazing alumnae and pursue STEM (Science, Technology, Engineering, Mathematics) fields. Also, this initiative is the brainchild of our alumnus, Mr. D.C. Agrawal and I thank him for his*

generous support. I also want to thank Ms. Edulji and Ms. Nayar for joining us today for this transformative event. Now more than ever, IIT Bombay is determined to produce women leaders who will make our country and the world proud".

Talking about the initiative, **Mr. D.C. Agrawal,** said, *"It is important that we make the IIT Bombay women alumni "visible to the world" and learn from their unique experiences, opportunities taken, challenges overcome and accomplishments achieved. IIT Bombay can only become the top Institute in the world when we fully recognise the experiences and achievements of not only our men graduates but also all our women graduates".*

About the 'IIT Bombay Gen Zero Women Initiative'

The 'IIT Bombay Gen Zero Women Initiative,' was conceived to celebrate the accomplishments of women who have graduated from the Institute within the initial years of its establishment in 1958. Through this initiative, the Institute salutes its women alumni for their stellar contributions and makes their personal and professional trajectories heard and seen. The larger objective of this initiative is to empower newer generations, especially young women, to choose IIT Bombay as their go-to educational institution and continue the legacy set by its women alumni. The 'IIT Bombay Gen Zero Women Initiative' has been made possible through the generous grant by the Institute's alumnus Mr. D.C. Agrawal [B.Tech. (Honors), Mechanical Engineering, 1969) and his late wife, Ms. Renu Agrawal

Techfest IIT Bombay Hosts Actor R. Madhavan At The Screening Of 'Rocketry: The Nambi Effect'

Actor R. Madhavan presenting a memento as a token of appreciation to the TechFest member at the screening of 'Rocketry: The Nambi Effect'

Techfest IIT Bombay conducted a screening of the movie **Rocketry: The Nambi Effect.** Over 500 IIT Bombay students registered for the event, making it a huge success. Ace actor **R. Madhavan**, well-known for his roles in 3 Idiots, Rang De Basanti etc. and **Mr. Vijay Moolan**, the producer of Rocketry, attended the event.

Rocketry was screened on July 5, 2022 at PVR cinemas, Phoenix Marketcity, Kurla. The screening was followed by an interactive session with R. Madhavan for the students. R. Madhavan and Vijay Moolan motivated the youth to believe in their passion and appreciated their admission to IIT Bombay. Emphasizing the achievements of IITians and their impact on the world, **Madhavan** said, *"IITians are ruling the world"*. He also said, *"If we don't want to see another Nambi Narayanan in society, everyone should develop a personality that appreciates goodness around them"*.

Celebrities Alia Bhatt and Ranbir Kapoor enthrall audience at IIT Bombay

Actors Alia Bhatt and Ranbir Kapoor during Institute Nite event of IIT Bombay Mood Indigo

Alia Bhatt and **Ranbir Kapoor** were at the *Institute Nite* event of IIT Bombay **Mood Indigo** for promotions of their film Brahmâstra on August 27, 2022.

The audience enjoyed watching the witty banter between Alia and Ranbir during the event. Alia also sang *"Kesariya"* to the loud cheering of the IIT Bombay crowd. The actors were presented with incredible fan art created especially for them by the students of IIT Bombay. Another celebrity artist, the soul of Rajasthani folk, **Mame Khan**, set the stage on fire with his performance. The crowd was on its feet, dancing to his wonderful tunes.

Ranbir Kapoor and Alia Bhatt revealed the dates of the 52nd edition of Mood Indigo, which is going to be a complete on-ground extravaganza and will take place from December 27-30, 2022 to the enthusiasm and excitement of the crowd.

Singer Mame Khan during Institute Nite event of IIT Bombay Mood Indigo

IDC School of Design in NCB Darkathon Top 5!

Team DeCrypto— Ms. Annapurna Garimella, Ms. Sanika Deshpande and Mr. Rubayat Ahmed from IDC School of Design while receiving the prize in Darkathon'22 at the hands of Hon'ble Home Minister Amit Shah

Team **DeCrypto** — **Ms. Annapurna Garimella, Ms. Sanika Deshpande and Mr. Rubayat Ahmed**) from **IDC School of Design** bagged a consolation prize in the Hackathon organised by the Narcotics Control Bureau of India.

Darkathon'22 invited technical solutions and algorithms to crawl the darknet drug trade markets. However, under the guidance of **Prof. Venkatesh Rajamanickam** and **Prof. Jayesh Pillai** (**IDC School of Design**), the team decided to take a design approach to the problem and proposed a front-end interface that consolidated the Darknet drug-trade related Crypto Transaction.

The team was felicitated by Hon'ble Home Minister **Amit Shah** at Raj Bhavan, Chandigarh, amongst other dignitaries - Governor of Punjab **Mr. Banwari Lal Purohit**, J&K Governor **Mr. Manoj Sinha** and Director General of Narcotics Control Bureau (NCB) **Mr. Satya Narayan Pradhan**.

Eco-friendly Ganesh Idol-making Workshop

Eco-friendly Ganesh

The **National Service Scheme (NSS) IIT Bombay**, in collaboration with **IDC School of Design,** conducted a 4-day **eco-friendly Ganesh idol-making workshop** for the IIT Bombay community during August 27-30, 2022. This workshop was entirely free for IIT Bombay students on the first day.

More than 100 enthusiastic volunteers participated in the workshop. They enjoyed learning about the history of Lord Ganesha and the process of making an idol with clay and paint. The workshop was an

initiative of the SSD (social sustainability development) department at NSS and is currently in its 21st year celebrating eco-friendly Ganesha.

The workshop provided a great platform for the participants to learn and get involved in sustainability as well as hone their creative skills. **Mrs. Chaitali Gupta,** a teacher at Logic Centre and Community Welfare Association (LCCWA), an NGO, supervised the workshop.

Team Shunya Launches Newsletter

Team Shunya, a student team from IIT Bombay that works on sustainable housing as part of the Solar Decathlon Challenge organised by the U.S. Department of Energy conducted in various countries, launched its first newsletter, **"Sustain,"** on July 30, 2022.

Sustain is the first-of-its-kind newsletter to have articles and stories on sustainable housing technologies, lifestyle and renewable energy that are open to the public. These are written by industry experts, start-ups, journalists and students of the Institute.

Mr. Jaideep Hardikar, senior journalist, researcher and a core member of the People's Archive of Rural India; and **Mr. Durgesh Maru,** Founder and Director at Net Zero Pro and SunInfra Energies, were the chief guests on the occasion. The event was graced by the presence of **Prof. Ravindra D. Gudi,** Dean (Alumni and Corporate Relations) and **Prof. Rajesh Zele,** Department of Electrical Engineering and one of the faculty advisors of Team Shunya.

Research in Focus — Microwave Radiation To Detect Tiny Plastic Pollutants

Researchers devise a new technique to identify the presence of tiny invisible plastic pollutants using microwave radiation.

Plastic particles, a thousand times smaller than the thickness of our hair—the micro and nano plastics—have become a serious environmental hazard. In a recent study, a research team led by **Prof. T. I. Eldho** of the Indian Institute of Technology, Bombay (IIT Bombay), in collaboration with **Dr. Anil Lonappan** of the Mangosuthu University of Technology, South Africa, has devised a

new technique to detect micro and nano plastic in laboratory samples without destroying the ambient nature of the samples. The technique uses the changes induced in the electrical properties of a material when placed inside a microwave cavity to identify the material. The researchers hope to develop handheld devices to detect the presence of pollutants in environmental samples. The study was published in the Journal of Hazardous Materials.

The challenges posed by plastic pollutants are well documented and have long since entered public debates. But in the last few years, studies have shed new light on another variety of plastic pollutants: nano and microplastics. Invisible to the naked eye and extremely small, these are found almost everywhere, from the pristine environments of the Antarctic to our internal organs. Studies have reported finding these tiny plastic fragments in crop plants, edible fruits, fishes, penguins and even human placenta. Additionally, they also appear to play a role in climate change. Researchers are still investigating the yet largely unknown environmental and health effects of micro and nano plastics. While emerging threats posed by micro and nano plastic pollutants are varied and significant, *"a whole picture regarding the level of environmental contamination is unknown",* remarks **Dr. Renjith**, who worked on the study during his postdoctoral research at IIT Bombay.

With awareness about micro and nanoplastics, there is a growing impetus to prevent and control their spread. One of the challenges in combating them, especially regarding questions of health, is that existing techniques to identify the presence of these tiny plastic pollutants are mostly laboratory-based, energy-intensive and require expertise to operate. Thus, energy-efficient, fast and economically feasible alternatives are highly desirable. In this context, the IIT Bombay team explored the possibility of using microwave radiation to detect

plastic pollutants. *"Microwave processing requires less energy and time than other spectroscopic methods. Conventional methods may heat the sample from outside. As compared to such methods, the chances of sample degradation are less with microwaves,"* explains **Dr. Renjith**. Microwave-based techniques are also generally considered to be environmentally friendly.

Microwave radiation interacts with various plastic polymers and alters some of its electrical properties. While low-frequency signals (upto 300 kHz) are used to study resistivity and conductivity, higher-frequency signals (300 MHz to 4 GHz) are used to study dielectric parameters. In the current study, the researchers used microwave radiations in the S-band (2-4 GHz) and showed that the dielectric constant is useful in detecting plastics in both dry and wet samples. They also found two more properties, absorption loss and dielectric loss tangent, to be helpful in detecting plastics in dry samples.

Just as microwave radiation interacts with the water molecules in the food placed in a microwave oven and heats it up, microwave radiation also changes the electrical properties of materials when placed in a microwave cavity. Microwaves interact differently with different materials. The measurable changes that microwave radiation induces in the dielectric parameters for various materials are different. The changes are unique for each type of plastic. Thus, carefully measured variations in the dielectric properties of a pollutant in a microwave cavity can be used to identify the presence of a pollutant in a given sample.

The setup devised by IIT Bombay researchers consists of a microwave cavity around a foot long and attached to a network analyser, an instrument which can measure various electrical parameters. The sample is placed inside the cavity using a very thin glass tube as a sample holde and an appropriate high-frequency microwave is passed through the cavity. Using the network analyser, the researchers recorded the variations in the electrical parameters of the sample due to the presence of plastic polymers. This technique can currently identify some of the most abundant types of plastics found in the environment, namely polypropylene, low-density polyethylene, high-density polyethylene and cross-linked polyethylene. Most of our daily-use plastic materials like bags, bottles, ropes, carpets and computer components are made of these four plastic polymers.

While the technique proposed by the IIT Bombay team is efficient, economically viable and has given good results on laboratory-made samples, it is yet to be tested on real environmental samples. *"We have studied only four polymer types. In reality, there are other types of environmental plastic pollutants as well. Also, the sample size should be small, as the volume of the sample to cavity volume is very crucial,"* **Prof. Eldho** delineated the limitations of the study. The limitation on the sample size means that the technique cannot be used to identify the polymer type in the case of large-sized plastic pollutants.

The group is currently trying to improve and expand the study by considering other frequencies of microwaves and more types of plastics seen in both environmental samples and biological materials. One of the major challenges they expect to face is in the design of the casing of the device and sample holder. The researchers plan to develop their technique into compact handheld devices that can be used widely to identify the presence of hazardous invisible plastic pollutants appearing almost everywhere. *"A major challenge is the design of the casing and sample holder. Our studies with the prototype of the test sample holder show that it is very sensitive to perturbations in the testing conditions,"* **Dr. Renjith** explains the challenges ahead. The team is currently exploring options to address the issues with the sample holder and identify the best microwave frequency for real-world applications (to use in a device).

By employing microwaves for plastic detection for the first time, the researchers have opened up new avenues of application for microwaves and novel possibilities in identifying plastic pollutants. If this laboratory-based technique can be developed into handheld devices, as the researchers hope, it will go a long way in helping manage the threats posed by micro and nanoplastics.

Article written by:

Link to published work:

https://www.sciencedirect.com/science/article/pii/S0304389422000127?via%3Dihub

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Global Joint-PhD Program Of IITB-Monash Research Academy Reaches New Heights!

From left: Prof. Prasanna Gandhi (Department of Mechanical Engineering), Prof. Prakriti Tayalia (Department of Biosciences and Bioengineering), M.S. Unnikrishnan (CEO, IITB-Monash Research Academy), Prof. Pushpak Bhattacharyya (PiC, IITB-Monash Research Academy), Prof. Subhasis Chaudhuri (Director, IIT Bombay), Ami Mehta (200th Graduate, IITB-Monash Research Academy)

IITB-Monash Research Academy, a joint venture of IIT Bombay and Monash University, celebrated the remarkable milestone of its 200th graduate within a brief period of 14 years. The Academy is first in the world to award a joint PhD testamur where professors of both institutions supervise a PhD researcher for the period of 4 years. This achievement of the 200th graduate comes within 3 years of the 100th PhD milestone. The researchers of the Academy have access to research facilities of both premier institutions apart from its own state-of-the-art laboratories.

The Academy brings a solutions-driven approach to addressing global problems and with industry and government partnerships, it is taking the lead in solving some of the greatest challenges of our time.

Prof. Subhasis Chaudhuri, Director, IIT Bombay, said *"We have achieved the feat of 200 graduates. It is a great achievement not only for the Academy but also for both the partner institutes, IIT Bombay and Monash University. In a short span of 14 years, the progress has been phenomenal. Today, it is probably the world's largest such initiative on a joint-degree PhD program".*

M.S. Unnikrishnan, CEO of IITB-Monash Research Academy, said, *"We're proud to have contributed 200*

PhD scholars to the world with the best supervision and guidance provided by the professors of IIT Bombay and Monash University. The success of the program is due to the enthusiastic collaboration between professors who curate research projects focusing on grand challenges and with development of the society at the heart of it and the partnership with Industry and Government for scaling our program".

The 200th PhD, **Dr. Ami Mehta** presented her research on *"Fabrication and development of a blood-brain barrier microfluidic chip to mimic the brain vasculature"* conducted under the supervision of **Prof. Prakriti Tayalia,** Department of Biosciences and Bioengineering, IIT Bombay, **Prof. Prasanna Gandhi,** Deparment of Mechanical Engineering and **Prof. Nicolas Voelcker,** Monash Institute of Pharmaceutical Science. Her research on *Organ-on-chips (OoCs)* led to the development of the model to study neuroinflammation in the brain endothelium under dynamic conditions.

The event was also graced by **Prof. Pushpak Bhattacharyya**, Professor-in-Charge (PiC) IITB-Monash Research Academy, Prof. Prakriti Tayaliya, and Prof. Prasanna Gandhi along with members of the Academy.

Awards and Distinctions

Prof. Munukutla Radhakrishna, Department of Earth Sciences, has been selected for the **National Geoscience Award 2019** for his significant contributions in the field of Applied Geophysics. The award comprises a cash amount of Rs. 3 lakhs and a certificate

Prof. U. A. Yajnik, Department of Physics, has earned an Honorable Mention for the essay *'Gravitational Fields and Quantum Mechanics'* accorded by the Gravity Research Foundation, USA. The essay is co-authored with **R.B. MacKenzie, Victor Massart** and **M. B. Paranjape** of the University of Montreal and Gordon Semenoff of the University of British Columbia.

The essay is invited for publication in the October 2022 special issue of the *International Journal of Modern Physics D (IJMPD)*

Prof. Venkata S K. Delhi and (his student Dr. Tharun Dolla), Department of Civil Engineering, received the **Highly Commended Paper Award** for their paper "*Making BOT Great Again: Revisiting the BOT standard concessions and exploring the expectations"* presented at **CIB World Building Congress (22nd triannual conference) under working commission W122** – Public Private Partnership at Melbourne, Australia, June 27-30, 2022. The conference was jointly organized by The CIB (International Council for Research and Innovation in Building and Construction and Royal Melbourne Institute of Technology (RMIT) University

Prof. Ashish Singh, Shailesh J. Mehta School of Management, has been invited to join the editorial board of PLOS Global Public Health as an "Academic Editor"

Prof. Archana Pai, Department of Physics, has been elected as the next LIGO-India Scientific Collaboration (LISC) PI/ Chair

The animated short film *'Manhole'* directed by **Mr. Abhishek Verma** (alumnus) and **Prof. Jayesh Pillai**, IDC School of Design was in the Official Selection at the 14th International Documentary and Short Film Festival of Kerala, 2022

Prof. Dinesh Kabra, Department of Physics and his group were notably recognized for the work being done on *next generation optoelectronic materials for solar cells* at National Center for Photovoltaics & Education (NCPRE-IIT Bombay) and *display technologies* at Center for Nanoelectronics (CEN-IIT Bombay) by *Nature Journal*

Prof. Naina Manjrekar, Department of Humanities and Social Sciences, has been awarded a grant of 250,000 CHF by the Indo-Swiss Joint Research Programme for a period of 3 years for her joint project titled *"Indian Overseas Migration and Global Anticolonial Networks, c. 1905-1950: Political Imaginaries, Social Composition and Local Entanglements"* with **Prof. Harald Fisher-Tine** (ETH Zurich). The Programme is funded by the **Swiss National Science Foundation** and **the Indian Council for Social Science Research**

Prof. Alok Porwal, Centre of Studies in Resources Engineering, has joined the Editorial Board of Frontiers in Earth Science: Economic Geology Section

Prof. Chandra Venkataraman, Department of Chemical Engineering and Interdisciplinary Programme in Climate Studies, has been nominated to the Science Advisory Panel of the *Climate and Clean Air Coalition (CCC SAP)* of the United Nations Environment Programme.

The CCAC SAP is a globally recognized panel of scientific luminaries with a broad range of expertise related to climate and air pollution, short-lived climate pollutants and their links to health, agriculture and sustainable development. (https://www.ccacoalition.org/en)

Prof. Prasanna Gandhi, Department of Mechanical Engineering, has been selected for the Abdul Kalam Technology Innovation National Fellowship

Prof. Prakash Nanthgopalan and PhD scholar **Mr. Nabodyuti Das**, Department of Civil Engineering, are selected for **"NSG Counter-IED Innovation Awards-2022"** for their outstanding contribution in joint innovation of "Blast, Ballistic & Electromagnetic-Pulse Resistant Concrete (BBERC)".

This award is given by the National Security Guard (NSG), Govt. of India

Prof. Udayan Ganguly, Department of Electrical Engineering, has been selected for the Abdul Kalam Technology Innovation National Fellowship

Prof. Sudarshan Kumar, Department of Aerospace Engineering, has been elected as Fellow of Indian National Academy of Engineering (INAE) w.e.f. November 1, 2022

Prof. Subhananda Chakrabarti, Department of Electrical Engineering, has been elected as Fellow of Indian National Academy of Engineering (INAE) w.e.f. November 1, 2022

Prof. Rodney Fernandes, Department of Chemistry, has been selected for the Chemical Research Society of India (CRSI) Bronze medal

Prof. Pramod P. Wangikar, Department of Chemical Engineering, has been elected Fellow of Indian National Academy of Engineering (INAE)

Prof. Rashmi Gupta, Department of Humanities and Social Sciences, has been awarded a grant of 250,000 CHF and INR 25 lakhs by the Indo-Swiss Joint Research Programme for a period of 3 years for her joint project on depression with Prof. Chantal (University of Fribourg, Switzerland).

The Programme is funded by the Swiss National Science Foundation and the Indian Council for Social Science Research
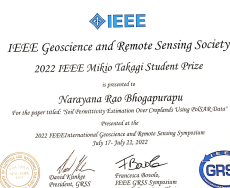
Paper Presentation

Prof. G. V. Sreekumar, IDC School of Design, presented a paper on *"Teaching calligraphy in online mode: a fresh look at design pedagogy"* in the EDDE 2022 Design Education Conference held during September 1-3, 2022, organised by School of Arts and Letters, Indiana University Southeast, New Albany, Indiana, USA, in collaboration with IDC School of Design, Indian Institute of Technology Bombay, Powai, Mumbai, India.

This paper looks at the problems and solutions related to design education during the recent pandemic-enforced online classroom environment

Student News

Vrunda Dave, a Ph.D student of **Prof. S. Krishna** from the **Department of Computer Science and Engineering**, has been chosen as a runner-up for the **Beth Outstanding Dissertation Prize (BODP) 2022.** The E. W. Beth Dissertation Prize, named in honour of the Dutch mathematician Evert Willem Beth, is instituted by the Association for Logic, Language and Information (FoLLI) each year and recognizes outstanding PhD theses in the fields of Logic, Language and Information. The shortlisted theses will be published by FoLLI. This is the first time a thesis from India has made it to the shortlist of the Beth Prize. The committee was particularly impressed by the breadth, technical depth and novelty of the results in Vrunda's thesis.

Narayanarao Bhogapurapu, a Ph.D. student of **Centre of Studies in Resources Engineering (CSRE)**, has won **Mikio Takagi Student Prize** for the **Best paper award** at the **42nd IEEE Geoscience and Remote Sensing Symposium (IGARSS 2022)**, the flagship conference on Geoscience and Remote Sensing. (https://www.grss-ieee.org/resources/awards/ieee-grss-mikio-takagi-student-prize/)

The work was done along with his two supervisors **Prof. Avik Bhattacharya** and **Prof. Y. S. Rao** (Centre of Studies in Resources Engineering, IIT Bombay) and collaborators **Dr. Subhadip Dey (DLR, Germany), Prof. Carlos Lopez Martinez (UPC, Barcelona, Spain)** and **Prof. Irena Hajnsek (DLR, Germany)**.

The **Autonomous Underwater Vehicle** team from **IIT Bombay (AUV-IITB)** participated with the latest edition of their vehicle – *Matsya 6B* – and came **third** in the *video category,* **seventh** overall in the *autonomy challenge and has received a special award for the best wildcard performance,* in the recently concluded **RoboSub 2022 Competition**. The team persevered despite the odds and finished as the best-performing Indian team among over 800 competitors and a total of 39 teams from 11 different countries. The faculty advisors were **Prof. Leena Vacchani,** Systems and Control Engineering and **Prof. Hemendra Arya,** Department of Aerospace Engineering.

IIT Bombay (IITB) Mars Rover Team achieved the **"Best Navigation Award"** in the **European Rover Challenge, Remote Formula 2022 (ERC 2022)**. About 28 international teams registered for the competition and 11 made it to the Finals, out of which the team was declared Best in the Navigation category. The award is given to the teams for some outstanding activity/appearance during a particular challenge in the competition. This was the first year the team participated in the ERC, Remote Formula.

IITB Mars Rover Team is a 12+ year old team of 40+ undergraduate students who build Mars rover prototypes for competing in international rover competitions, including URC, IRC (& IRDC) and ERC. The team is mentored by **Prof. PJ Guruprasad,** from Department of Aerospace Engineering, IIT Bombay and led by final year undergraduate students, Liza Dahiya, Nishant Mittal and Tejas Shintre.

Shruti Kanitkar, a Ph.D. scholar in the Department of Humanities and Social Sciences, has received the Young Poet Award (Sanskrit) for 2022 from the Sahitya Academy for her composition—Mahakavya-Long Poem-titled **śrīmaticaritram.**

Notifications

Prof. Samir K Maji, Department of Biosciences and Bioengineering, has been appointed as the first Professor Incharge of the newly established **"Sunita Sanghi Centre for Aging and Neurodegenerative diseases"** w.e.f. July 5, 2022

Prof. Krishna P Kaliappan, Department of Chemistry, has been appointed as the first **Dean (Strategy)** w.e.f. August 3, 2022

Dr. Arvind Meshram, has been appointed as the new Chief Medical Officer (CMO) In-charge of IIT Bombay Hospital w.e.f. September 21, 2022

Prof. Sameer Jadhav, Department of Chemical Engineering, has been appointed as Professor Incharge of the Placement w.e.f. June 27, 2022

Prof. Anuradha Narasimhan, Professor of Practice, has been appointed as the Head, Desai Sethi School of Entrepreneurship w.e.f. July 18, 2022

Prof. Aniruddha Joshi, has been appointed as the Head, IDC School of Design w.e.f. August 1, 2022

Alumnus News

IIT Bombay alumnus **Dr. Ranjit Rath** (*MSc. Applied Geology, 1994*) has been appointed as the Chairman and Managing Director (CMD) of India's second-largest state-run oil and gas producer *Oil India Limited (OIL)*. Dr. Rath officially took over the position on August 2, 2022.
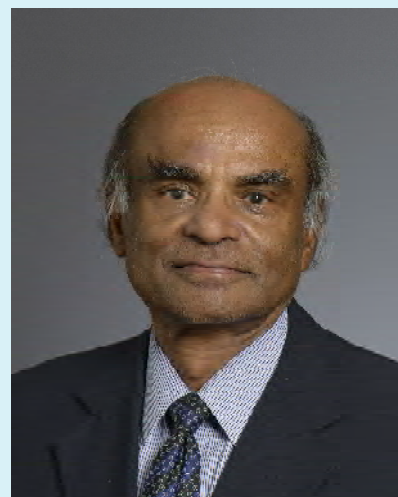
Institute Colloquium / Lectures

Prof. Andrew Thangaraj, NPTEL Coordinator and National MOOCs Coordinator in SWAYAM at IIT Madras, delivered the Institute Colloquium on *"Running a large-scale UG program: The IITM experience"* on September 14, 2022

Dr. Santosh Ansumali, Professor at Engineering Mechanics Unit at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) Bengaluru and Founder of Sankhyasutra Labs, Bengaluru, delivered the Institute Colloquium on *"Drik Ganita: Towards realistic simulation of complex systems"* on September 6, 2022

Dr. Achintya Haldar, DaVinci Fellow, Professor Emeritus of Civil and Architectural Engineering and Mechanics University of Arizona, Tucson, AZ, USA, delivered the Institute Lecture on *"Stochastic Behavior of Dynamic Systems in the Metaverse Era – Alternative to Random Vibration and Simulation"* on September 21, 2022

Mr. Bibhishan Bagal and Mr. Ananth Krishna, Shekru Foundation, delivered the Institute Talk on '*Step into the world of Millets!*' as part of *"International Year of Millets"* on September 29, 2022

Appointments

Dr. Swapnil Rohidas Shinde, has been appointed as Assistant Professor Grade I in the Department of Biosciences and Bioengineering w.e.f. August 08, 2022

Dr. Angshuman Modak, has been appointed as Assistant Professor Grade II in the Interdisciplinary Programme in Climate Studies w.e.f. September 26, 2022

Dr. Sujoy Kumar Bhore, has been appointed as Assistant Professor Grade I in the Department of Computer Science and Engineering w.e.f. September 12, 2022

Retirements on July 31, 2022

Prof. Premchand Pandey, Department of Electrical Engineering, retired after 33 years of service

Prof. Tapas Kumar Biswal, Department of Earth Sciences, retired after 27 years of service

Ms. Lathika Das, Admin. Supdt., Department of Metallurgical Engineering and Materials Sciences, retired after 40 years of service

Ms. Nanda Y. Sapkale, Sr. Trained Graduate Teacher, IIT Campus School and Jr College, Powai, retired after 28 years of service

Mr. Mukesh B. Patel, Sr. Mechanic, Electrical Maintenance Division, retired after 32 years of service

Mr. Uttam S. Kharat, Multi-skilled Assistant C, Electrical Maintenance Division, retired after 27 years of service

Retirements on August 31, 2022

Prof. Rajani R. Joshi, Department of Mathematics, retired after 38 years of service

Mr. Ramakant T. Bhandare, Jr. Tech Supdt., Environmental Science and Engineering Department, retired after 39 years of service

Mr. Nilam Y. Mohite, Sr. Multi Skilled Assistant, Department of Mechanical Engineering, retired after 39 years

No.	Course Title	Course Coordinator/ Department	Duration
CEP courses scheduled October, November and December 2022			
Open Programmes : (October 2022)			
1	Stone Matrix Asphalt (SMA): Theory to Practice	Prof. Dharamveer Singh, Department of Civil Engineering	October 14, 2022 (1 days)
In House Programmes :			
2	BIRLASOFT YOUNG GUNS PROGRAM	Prof. Ashish Pandey, School of Management	October 14, 2022 (5 days)
GIAN Courses :			
3	Phase Field Crystal Modelling And Its Applications	Prof. Mogadalai Gururajan, Department of Metallurgical Engineering & Materials Science	October 10, 2022 (10 days)
Open Programmes : (November 2022)			
GIAN Courses :			
4	Battery Technology for e-Mobility	Prof. Prashant Date, Department of Mechanical Engineering	November 28, 2022 (5 days)
GIAN Courses : (December 2022)			
5	Optimization of Uncertain Systems: Theory And Practice	Prof. Yogendra Shastri, Department of Chemical Engineering	December 19, 2022 (6 days)

Obituary

Ms. Tara Reddy, a teacher in Kendriya Vidyalaya, IIT Powai, passed away on July 30, 2022 due to COVID.

Mr. Tushar Dukhande, staff in the Department of Computer Science and Engineering, passed away on July 31, 2022. He suffered a sudden massive cardiac arrest.

In the Wilderness

Photo Credit :
Sanjay Mohite, CoPT, Dept.
Aerospace Engineering

Campus diary

Campus Diary is edited and published by
Public Relations Officer,
IIT Bombay, Powai, Mumbai - 400 076.

Printed at IITB Printing Press

For Private Circulation Only.

Material for publication in Campus Diary
should reach PPR section by the 25th of
every month

(email : campusdiary@iitb.ac.in)

BOOK POST