



IoE progress status 19-20

Indian Institute of Technology Bombay

1. Rs. 17 Cr were received under OH 31 head from MoE during 2019-20.
2. 44 Purchase requisitions worth 33.9 Cr were created and 26 Purchase orders created worth 20 Cr for RIFC projects.
3. IIT Bombay introduced a new interdisciplinary Centre on Machine Intelligence and Data Science (CMInDS) during 2019-20.
4. IIT Bombay introduced Dual Degree MA+PhD in Humanities and Social Sciences, MS by research programme in Computer Science and Engineering, and Interdisciplinary Dual Degree Programme in Artificial Intelligence and Data Science.
5. IITB started an MTech program in Education Technology, Masters in Public Planning and Policy and Masters in Urban Design and Engineering from the academic year 2019-20.
6. The total number of students enrolled during 2019-20 were 10949.
7. 75 new faculty members joined during 2019-20 and thus the total number of faculty members increased to 681. The faculty student ratio was 1:16.1.
8. During the year 2019-20, IITB received 345 R&D sponsored projects and 705 Consultancy projects sanctioned with a financial outlay of 331.24 Cr.
9. During 2019-20, 121 intellectual property (Patents and trademark) applications were filed.
10. IITB has been awarded two Guinness World Records- one for Largest environmental sustainability lesson and other for Most people assembling solar lamps simultaneously. Also IITB won IEEE Empower a Billion lives competition.
11. During 2019-20, 16 workshops, 19 seminars, and 11 conferences were conducted.
12. Project initiated towards COVID 19 Including Incinerator for safe disposal of gloves and masks, In-situ gel, Application for quarantine adherence, application for tracking and tracing of asymptomatic carriers etc.
13. CE & QIP during 2019-20, a total of 201 CEP courses were conducted with about 2932 participants from across disciplines and industries.
14. Career counselling campaigns (CCC) conducted for 8000+ students from 80 BMC schools in one day.

15. Other notable social activities conducted include, Powai Lake mega clean up campaigns held on June 5, 2019, Slum and Old age home visits, Food distribution with Robin Hood Army, campaigns for Versova Beach cleanup, Mithi River Clean up and slum adoption, blood donation, free health checkups, CPR workshop and self-defense workshop.
16. 1207 (83.58% of passing out batch) students were placed in different sectors.
17. 50 MoUs were signed with various foreign universities, including University of Alberta, University of Twente and Politecnico di Milano, Italy.
18. During 2019-20, Institute received a total donation of Rs 57.26 Cr.
19. Construction of Research Park, Hostel 17, Type B housing Building (B 25), and combined building for SINE, IRCC and IDC have progressed considerably.
20. Construction of vertical extension to School of Management building neared its completion.
21. Central Library increased the number of resources including books, theses, reports, e-books by 3568 during 2019-20.
22. CDEEP provided 13 semester long courses to NPTEL and conducted 24 courses during the year 2019-20. Number of active courses were 288.
23. 2815 research papers were published during the year 2019-20.

Awards/recognition for IITB faculty members:

The following faculty members have been conferred with awards/recognition as under during the year 2019-20.

Shanti Swarup Bhatnagar Prize for Science and Technology

1. Prof. U. K. Anandavardhanan, Department of Mathematics
2. Prof. Suryendu Dutta, Department of Earth Sciences

Fellow of Indian National Science Academy (FNA)

1. Prof. Vivek Agarwal, Department of Electrical Engineering
2. Prof. M. Ravikanth, Department of Chemistry
3. Prof. Souvik Mahapatra, Department of Electrical Engineering

Fellow of Indian Academy of Sciences (FASc)

1. Prof. Neela Nataraj, Department of Mathematics

2. Prof. Amit Agarwal, Department of Mechanical Engineering

Fellow of the National Academy of Sciences (FNASc)

Fellow of the Indian National Academy of Engineering (FNAE)

1. Prof. Maryam Shojaei Baghini, Department of Electrical Engineering
2. Prof. Anil Kulkarni, Department of Electrical Engineering
3. Prof. Soumyo Mukherji, Department of Bioscience and Bioengineering

J C Bose Fellowship

1. Prof. R Murugavel, (Department of Chemistry)
2. Prof. Dipendra Prasad, (Mathematics Department)

The World Academy of Sciences (TWAS)

1. Prof. Dulal Panda, Department of Biosciences and Bioengineering

INAE Young Engineer Award 2020

1. Prof. Swatantra Pratap Singh (Environmental Science and Engineering Department) 20

INSA Medal for Young Scientists

1. Prof. Shobhna Kapoor (Department of Chemistry)
2. Prof. Prabhakar Naraga, (Department of Earth Sciences)

Other Fellowships

1. Prof. Preeti Rao, (Department of Electrical Engineering) has been selected to receive the Abdul Kalam Technology Innovation National Fellowship for a period of 3 years starting from October 1, 2020.
2. Prof. Sanjeeva Srivastava, (Department of Biosciences and Bioengineering) has been elected as a Fellow of Royal Society of Biology (FRSB) and Fellow of Royal Society of Chemistry (FRSC).
3. Prof. Samir Maji, Department of Biosciences and Engineering, has been selected for the prestigious Tata Innovation Fellowship of the Department of Biotechnology (DBT).
4. Prof. Deepankar Choudhury, Department of Civil Engineering has been elected as a Fellow of American Society of Civil Engineers (F.ASCE).

Awards

1. Prof. Ruchi Anand (Department of Chemistry) - Chemical Research Society of India (CRSI) bronze medal.
2. Prof. Nagamani Jaya Balila (Department of Metallurgical Engineering and Material Sciences) has received the "Acta Materialia and Scripta Materialia" Outstanding Reviewer Award for the year 2019.
3. Prof. Subimal Ghosh (Department of Civil Engineering)- American Geophysical Union (AGU) DL Memorial Medal 2020.
4. Prof. Subimal Ghosh (Department of Civil Engineering)- Cray's Dr. A. P. J. Abdul Kalam High-Performance Computing award 2020 in the area of R&D in HPC applications.
5. Prof. Sridhar Iyer, (Interdisciplinary Programme in Education Technology)- The ACM Indian Outstanding Contribution to Computing Education (OCCE) award for the year 2020.
6. Prof. Pradip Kalbar's (from IDP in Climate Studies) research work, published along with his collaborator Prof. Monio Neiro (Aalborg University, Denmark), has received the 2nd prize in PRISMA (Performance and Policy Research in Sustainability Measurement and Assessment) awards which are given for ground breaking research sustainability assessment and policy. 20
7. Prof. Tarun Kant (Department of Civil Engineering)- The VASVIK award for 2020 in the area of Mechanical & Structural Science and Technology.
8. Prof. Vinish Kathuria, (Shailesh J. Mehta School of Management)- Outstanding reviewer award by Emerald Publisher for their "International Journal of Developing Issues" for the year 2020.
9. Prof. Dulal Panda, (Department of Bioscience and Bioengineering) -"The Sun Pharma Research Award-Pharmaceutical Sciences" for the year 2020.
10. Prof. Parag Tandaiya, (Department of Mechanical Engineering) has been awarded as "Modelling and Simulation in Materials Science and Engineering" 20
11. Prof. Chandra M. Volla, (Department of Chemistry) - A. V. Rama Rao (AVRA) Young Scientist Award for the year 2020 in recognition of his contributions to research in Chemistry.
12. Prof. N. N. Viswanathan, (Department of Metallurgical Engineering and Materials Science)-Indian Institute of Metals Educator Award for the year 2020.
13. Prof. Phani Tetali, IDC School of Design, has been selected for 'Akhil Bhartiya Kala Gaurav Samman' this year by the Maharashtra Cosmopolitan Education Society, Pune for his outstanding contributions to Animation Film Design Education.

Other Recognitions

1. Prof. Milind Atrey (Department of Mechanical Engineering) has been elected as the President of "Indian Cryogenics Council (ICC)" for 3 years.

2. Prof. Ruchi Anand (Department of Chemistry) has been invited to deliver A.V. Rama Rao Foundation lecture on Chemistry by President, JNCASR, Bengaluru.
3. Prof. Amrita Bhattacharya, (Department of Metallurgical Engineering and Materials Science), has been elected as a member of the National Academy of Sciences India. 20
4. Prof. Arnab Dutta, (Department of Chemistry) has been selected as an Associate of the Indian Academy of Science (IASc).
5. Prof. Amol A. Gokhale (Department of Mechanical Engineering), has been appointed as the President of the Indian Institute of Metals for one year with effect from 1st August, 2020.
6. Prof. Ravindra Gudi (Department of Chemical Engineering) has been elected as a council member of the International Federation of Automatic Control (IFAC) for the triennium 2020-2023.
7. Prof. Karuna Jain (Shailesh J. Mehta School of Management) continues as the President of the POMS India chapter in 2020 and 2021.
8. Prof. Devang V. Khakhar (Chemical Engineering Department) has been elected as Vice President of the INSA (Indian National Science Academy) Council.
9. Prof. K. Ramasubramanian (Department of Humanities and Social Sciences) (HSS) has been invited to give a distinguished lecture at the International Congress of Mathematicians (ICM) 2022.
10. Prof. Nina Sabnani (IDC School of Design) has been elected to the Board of International Association of Women in Radio and TV (IAWRT).
11. Prof. Amber Shrivastava (Department of Mechanical Engineering) has been appointed as the Joint Hon. Secretary of the Indian Institute of Metals for one year with effect from 1st August, 2020.
12. Prof. R. B. Sunoj (Department of Chemistry) has been invited to join the IUPAC-Organic and Biomolecular Chemistry (Division III) as a member of the subcommittee on *Structural and Mechanistic Organic Chemistry*.
13. Prof. K. G. Suresh (Department of Physics) has been elevated to the grade of Senior Member of IEEE this year.
14. Prof. Kannan Moudgalya, Department of Chemical Engineering, will be receiving "Pt. Deen Dayal Upadhyaya Recognition for Re-Engineering India 2020" in the Farmer Welfare/ Industry/ Institutional Category for having paved the path for multilingualism by envisaging and curating spoken tutorials in various Indian languages for Education, Employment and Empowerment.

Editorial Boards

1. Prof. Ruchi Anand (Department of Chemistry) has been invited to join the International Advisory Board of Asian Journal of Organic Chemistry, published by Wiley-VCH.
2. Prof. Avik Bhattacharya (Centre of Studies in Resources Engineering) has been invited to join the Editorial Board of the Journal of Remote Sensing.

3. Prof. Pushpak Bhattacharyya, (Department of Computer Science and Engineering) has been inducted as one of the Editorial Board members of Journal of Natural Language Engineering, JNLE, published by Cambridge University Press.
4. Prof. Rajarshi Chakrabarti, (Department of Chemistry) has been invited to serve as an Associate Editor of the International Journal of Chemical Kinetics for 3 years, starting from June 2020.
5. Prof. Suryanarayana Doolla (Department of Energy Science and Engineering) has been appointed as Editor of the IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE) starting from September 1, 2020.
6. Prof. Arun Iyer (Department of Humanities and Social Sciences) has been appointed as Associate Editor of the Journal of the British Society for Phenomenology published by Taylor and Francis.
7. Prof. V. Jothiprakash (Department of Civil Engineering) has been appointed as an Associate Editor of Journal of Applied Water Engineering and Research, IAHR Journal and Associate Editor of Journal of Hydrologic Engineering, published by American Society of Civil Engineering (ASCE).
8. Prof. Pradip Kalbar (Centre for Urban Science and Engineering) (CUSE) has been invited to join as one of the Editors for the Journal of Water Reuse and Desalination, an International Water Association's (IWA) publication.
9. Prof. Vivek Kant, (IDC School of Design) has been appointed as an Associate Editor of the journal Ergonomics in Design and the editorial board of the journal Human- Intelligent Systems Integration published by Springer.
10. Prof. Sudarshan Kumar, (Department of Aerospace Engineering) has been nominated as one of the members of the Editorial Board of "Defence Science Journal", a peer-reviewed primary research journal in the field of Engineering and Defence Technologies.
11. Prof. Arpita Mondal (Department of Civil Engineering) has been invited to join as an Associate Editor in the International Journal Regional Environmental Change (REEC), Springer.
12. Prof. Rajakishore Nath (Department of Humanities and Social Science) has been invited to join as Associate Editor of AI and Society: Journal of Knowledge, Culture and Communication.
13. Prof. Kasturi Saha (Department of Electrical Engineering) has been invited to join the Editorial Board of Quantum Optics as Review Editor for Frontiers in Photonics.
14. Prof. Amit Sethi, (Department of Electrical Engineering) has been invited to join the Editorial Board of Cancer Imaging and Image-directed Interventions as Review Editor for Frontiers in Oncology.
15. Prof. Riddhi Singh (Department of Civil Engineering) has been invited to serve as an Associate Editor of the Journal of Earth System Science, published by the Indian Academy of Sciences for 3 years from July 2020.

16. Prof. Haripriya Gundimeda, Humanities and Social Science has been invited to join as an Associate Editor of the Journal of "Indian Society for Ecological Economics" for a period of 3 years.
17. Prof. Deepankar Choudhury, Department of Civil Engineering has been invited to join the Editorial Board of "Soils and Foundations" published by Elsevier.