



Indian Institute of Technology  
Bombay

DEPARTMENT OF  
**MECHANICAL  
ENGINEERING**

DEPARTMENT HANDBOOK  
2022-2023





## **Disclaimer:**

Though the ISCP (Institute Student Companion Program) has taken care while compiling the handbook, neither the council nor the Institute can be held responsible for errors/inadequacies that may inadvertently creep in. This handbook cannot be used as a basis for making a claim on facilities/concessions/interpretation of rules/statues or the like. If there is some critical information to which the reader of this handbook refers, it is with his or her responsibility that it is put to use, with cross verification if need be.



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## **About the Institute**

Established in 1958, the second of its kind, IIT Bombay, was the first to be set up with foreign assistance. The funds from UNESCO came as Roubles from the then Soviet Union. In 1961 Parliament decreed the IITs as 'Institutes of National Importance.' Since then, IITB has grown from strength to strength to emerge as one of the top technical universities in the world.



The institute is recognised worldwide as a leader in the field of engineering education and research. Reputed for the outstanding calibre of students graduating from its undergraduate and postgraduate programs, the institute attracts the best students from the country for its bachelor's, master's, and doctoral programs. Research and academic programs at IIT Bombay are driven by an outstanding faculty, many of whom are internationally reputed for their research contributions.

IIT Bombay also builds links with peer universities and institutes at the national and international levels to enhance research and enrich its educational programs. The alumni have distinguished themselves through their achievements in and contributions to the industry, academics, research, business, government, and social domains. The institute continues to work closely with the alumni to enhance its activities through interactions in academic and research programs and to mobilise financial support.



Over the years, the institute has created a niche for its innovative short-term courses through continuing education and distance education programs. Faculty members of the institute have won many prestigious awards and recognitions, including the Shanti Swaroop Bhatnagar and Padma awards.

Located in Powai, one of the northern suburbs of Mumbai, the residents of the institute reap the advantage of being in the busy financial capital of India while at the same time enjoying the serenity of a campus known for its natural beauty. A fully residential institute, all its students are accommodated in its 15 hostels with in-house dining; the campus also provides excellent amenities for sports and other recreational facilities.





## **About the Mechanical Engineering Department**

The Mechanical Engineering Department has been there from the beginning of the journey of IIT Bombay, which is from 1958. It is one of the largest in terms of faculty, students, and activities and continues to lead and expand its activities in various directions. The Department has 61 full-time faculty members, five honorary faculty members, 817 Undergraduate students, 577 Post-graduate students, and six supporting staff.

The faculty members are grouped under three broad specialisations - Design, Manufacturing, and Thermal & Fluids Engineering. They have been engaged in research in all the classical areas of Mechanical Engineering and upcoming areas too. Thirty laboratories support academic activities. Three new laboratories, Computational Fluid and Soft Matter lab, SATANIC Lab, and Micro-forming lab, were inaugurated recently. The Department has decided recently to focus significant research efforts in the following five areas: Computational Mechanics; Nuclear Thermal Hydraulics; CIM; Refrigeration, A/C, and Cryogenics; and MEMS, NEMS, and Mechatronics.

The Department is known for research and projects in robotics, fluid dynamics, heat pumps, cryogenics, nuclear engineering, fracture mechanics,

I. C. Engines, Combustion, CFD, CAD-CAM, and other areas. Experimental and computational facilities are being continuously upgraded. Industry interaction has increased with several post-graduate courses being offered to industry participants and many students working on industry-sponsored projects.



### **Department of Mechanical Engineering**

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## **Message from Head of Department**

I welcome you, the MTech. Students of the 2022 batch to this prestigious Institute and the recognized department of mechanical engineering. I am happy to let you know that under the 'Engineering – Mechanical, Aeronautical & Manufacturing' category, our Institute has been ranked at 57 in QS ranking by the subject. The Department will be your home for the next two years, where you will ascend to new heights in your academic life, keeping abreast of the recent developments in the field through numerous elective courses and conducting cutting-edge research in a multitude of laboratories. You are fortunate that the pandemic has permitted you to come to the campus on the first day itself unlike previous 2 batches.

The Department is equipped with approximately thirty laboratories to help you follow your passion, which includes robotics, fluid mechanics, combustion, heat pumps, fracture mechanics, nuclear engineering, CFD, CAD-CAM, advanced manufacturing, and so on. The rigour of the courses taught as part of your curriculum, and the research that you conduct in the laboratories as part of your projects would transform you into a powerhouse of knowledge. If you find that there are dreams about research that keep you awake at night, we have a dual degree program that would fast-track your research towards a doctoral degree.

In addition to the academic program, do participate in numerous co-curricular activities as well to diversify your growth as a human being, learning the valuable skills of teamwork, leadership, and general approachability on the way. I sincerely wish that you make the most of your time here and graduate as a skilled engineer and a confident yet kind human being.



**Prof. Sreedhara Sheshadri**

Head of Department

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## **Message from Faculty Advisor of Department**

Dear Students,

A warm welcome to all the students joining IIT Bombay for post graduate studies. Covid pandemic has thrown unforeseen challenges and hence your success becomes even more praiseworthy. So my heartiest congratulations. We are sure that you will continue your studies and learning with the same enthusiasm. Your first semester is being held in an OFFLINE mode after a long time so we hope that you will comfortably be able to study physically in the IITB campus. We wish you all the best in your stay at IIT Bombay.

Best wishes and regards,



**Prof. Shankar Krishnan (SNK)** ME  
Department/104 A  
[kshankar@iitb.ac.in](mailto:kshankar@iitb.ac.in)  
Thermal & Fluid Engineering (ME1)



**Prof. Tanmay Bhandarkar (TKB)**  
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Materials, Manufacturing and Modeling (MMM)



**Prof. Ankit Jain**  
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Thermal & Fluid Engineering (ME1)



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Design Engineering (ME2)



**Prof. Sushil Mishra** ME  
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Manufacturing Engineering (ME3)





## **Welcome Message from the ISCP Team**

Dear students,

Heartfelt congratulations for embarking on one of life's most memorable journeys—the journey of learning. The prestigious institute of IIT Bombay welcomes you aboard.

Your dedication, hard work and perseverance brought you here, and we are confident that your experience will lead you towards great opportunities. Owing to the ongoing covid-19 pandemic, the onboarding will be online. However, rest assured that we are there to assist you in any way possible, from smooth orientation to cope with academic pressure.

Institute Student Companion Programme (ISCP) is a student body with the primary objective of building a relationship of trust and comfort between the on-roll students and the incoming students of the PG programmes. We are here to help you get familiar with the ways of IITB, which is even more critical in these times. You will become a part of a culture where people want to perfect their craft and thus work day in and day out. The scope of these is not limited just to academics. Various online events will be organised by the cultural, technical, and sports clubs in IITB, like code in quarantine, fitness challenges, dance challenges and many more. Managing these along with online lectures might seem daunting at first, and hence, to help you with a world of problems, including these, we assign you a student companion.

The student companions are self-motivated volunteers who will genuinely help you in low and high tides as an act of giving back what they received from the programme. You can look up to the team for any form of support, any information before venturing out into an unknown domain, be it academics or extracurricular activities. You can reach out to us for any issue regarding the curriculum, facilities provided, your physical, social or mental health, and last but certainly not the least, reach out to have a chat with us because that is what we are for, for you.

The COVID -19 pandemic has affected all of us. For now, health concerns prevent your arrival in our beautiful lush-green IITB campus; it also prevents your participation in hostel activities, sports, cultural activities. There are many things here at IITB waiting for you, but the most important thing is the campus, and the buildings do not define IITB. It is



you. You set the culture, the activities, represent IITB to the world and make IITB what IITB is. So, knowing that time flies at IITB, we strongly suggest participating in things that happen online other than attending lectures, making memories, reaching out to us for any queries, and relaxing in the comfort of your home. At least till we get an opportunity to welcome you into the campus; let us be safe, let us be optimistic and let us keep our learning spirits high.

We welcome you to IIT Bombay— A journey where you Learn, Grow and Enjoy.

The campus of IIT Bombay awaits your presence; we will soon see you there.



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## **Welcome Message from Post Graduate Academic Council**

Welcome Freshers!

We all have gone through a lot in these past couple of years, so firstly congratulations to all of you for securing admission to one of the prestigious institutes in the country. IIT Bombay provides the best exposure to its students in all aspects, both academically as well as non-academically. The skills you develop here, the interactions you have with people here will stay with you throughout your life. The post graduation demands something additional compared to the under graduation, more time, more effort, more determination and a ton of dedication. For meeting these primary requirements, often we find ourselves in a daunting situation.

In order to make your stay at IIT Bombay convenient, the institute has established the PGAC (Post Graduate Academic Council). Any technical necessity, any placement-related assistance, any research queries or any academic grievances, you can always reach out to us. Each department has its own AURAA (Academic Unit Representative of Academic Affairs), whom you can approach directly in case you find any difficulties. Wishing you all a really convenient and productive IIT journey!



**Mohit Meena**

Institute Secretary, Academic Affairs (Masters)

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## **Welcome Message from Department Coordinators**

Welcome Junta,

Heartiest congratulations & warm welcome on making place in the IIT Bombay family. You are about to start a journey of knowledge and exploration. We know the covid situation is not on our side, and sometimes the journey can be formidable and stressful. Nevertheless, do not worry; Team ISCP mechanical is always there with you to guide you through this journey. Upcoming 2-3 years' stay in IIT will teach you many new things that will continuously reshape your perspective and make you a skilled engineer, also a confident yet kind human being.

As you are already aware that everything will start offline this semester, so you can consider yourselves fortunate to enjoy the warmth of campus life like us. Hopefully, everything has returned to normal, and you will be able to do everything you have dreamed for so long. We know that you might be accustomed to online education in your preparation and classroom environment can be overwhelming, but keep trust in the Mechanical department, your seniors, and various student bodies such as PGAC, ISCP, and Institute Council who are trying their best to make your learning experience better.

Inside the IIT Bombay campus, you will always be surrounded by the brightest minds not just in terms of academics but sports, Arts and cultural as well. IIT-Bombay is a place that not just gives importance to academics, but you will find students busy in various activities all day across campus. We suggest you participate in various sports activities, cultural activities which will help you to broaden the horizon of your mind and develop hidden talent inside you.

We know from our personal experiences how important it is to have someone as a mentor who can guide us from reaching the IIT Bombay campus to getting adapted into campus life. Our DC's Het and Taijaswaini & the team of SC's were like first friends who helped us not just to get with orientation, registration, course selection, etc but also acclimatising with various modes of study here at IITB as we were having an online semester followed by an offline one.

Many of you, joining IIT Bombay just after finishing your bachelor's, but few will be joining after working in MNCs for 2-3 years. You will also find a few sponsored candidates from organisations such as DRDO, BARC,



ISRO, Indian Navy, and Indian Coast Guard who are returning to education after a gap of 5-6 years. So everyone must be having tons of questions in their minds related to lectures, professors, study material & exams. So, it would be best if you asked those questions; however, naïve they may be to your student companion & department coordinators. The mechanical ISCP team is always there to help you.

You are about to embark on a journey that we have already embarked on. You may not know about the obstacles that you will find in this journey, but we know from our experience. So we are here to help you avoid the mistakes we made. Feel free to contact us anytime regarding anything. We will be glad to help.

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## Mechanical Department Faculties

### ❖ Thermal & fluid Engineering:








Name	Research Interest	Photograph
<b>Prof. Amit Agrawal (AA)</b> ME Department/204 B <a href="mailto:amit.agarwal@iitb.ac.in">amit.agarwal@iitb.ac.in</a>	Turbulence, PIV, Heat Transfer, Rarefied Gas Flows, Microfluidics	
<b>Prof. Milind Atrey (MA)</b> ME Department/F 09 <a href="mailto:matrey@iitb.ac.in">matrey@iitb.ac.in</a>	Refrigeration, Cryogenic Engineering, Cryocoolers, Cryogenic Heat Exchangers, Two-phase flow heat transfer,	
<b>Prof. Sridhar Balasubramanian (SRB)</b> ME Department/304 B <a href="mailto:sridharb@iitb.ac.in">sridharb@iitb.ac.in</a>	PIV, Flow and turbulence measurement using optical means., Experimental fluid dynamics and heat transfer, Geophysical fluid dynamics	
<b>Prof. U. V. Bhandarkar (UVB)</b> ME Department/303 A <a href="mailto:ubhandarkar@iitb.ac.in">ubhandarkar@iitb.ac.in</a>	Particulate Characterization and Emission Control, Heat transfer in nanofluids, Molecular Modeling and Simulations, Rarefied Gas Flows, DSMC, Appropriate Technology for Rural Areas,	
<b>Prof. Rajneesh Bhardwaj (RNB)</b> ME Department/S 36 <a href="mailto:rajneesh.bharadwaj@iitb.ac.in">rajneesh.bharadwaj@iitb.ac.in</a>	Interfacial transport phenomena, CFD, FEA Droplets, Interfaces, Fluid-Structure Interaction, CFD	
<b>Prof. Abhilash J.Chandy</b> ME Department/S 37 <a href="mailto:achandy@iitb.ac.in">achandy@iitb.ac.in</a>	TFE, Turbulence, Computational Fluid Dynamics, LES/DNS for complex transitional and turbulent flows., Modelling of Turbulent Combustion, DNS/LES of reacting flows,	
<b>Prof. Arindrajit Chowdhury (AC)</b> IC Engine Lab. <a href="mailto:arindra@iitb.ac.in">arindra@iitb.ac.in</a>	Combustion Visualisation and Optical Diagnostics, Combustion of Energetic Materials (Propellants and Explosives), Homogeneous Charge Compression Ignition (HCCI) engine, Combustion and emission in practical devices	



<p><b>Prof. Shivasubramanian Gopalakrishnan</b> ME Department/S 19 <a href="mailto:sgopalak@iitb.ac.in">sgopalak@iitb.ac.in</a></p>	<p>Fluid Mechanics, Numerical Methods, Computational Fluid Dynamics, Geophysical Fluid Dynamics, Multiphase Flows, Interface Tracking Schemes</p>	
<p><b>Prof. Muralidharan Janani</b> ME Department/SH 17 <a href="mailto:js.murlidharan@iitb.ac.in">js.murlidharan@iitb.ac.in</a></p>	<p>Heat Transfer, Computational Fluid Dynamics, Experimental fluid dynamics and heat transfer, Flow boiling in microchannels, Experimental techniques in interfacial flows,</p>	
<p><b>Prof. Shankar Krishnan (SNK)</b> ME Department/104 A <a href="mailto:kshankar@iitb.ac.in">kshankar@iitb.ac.in</a></p>	<p>Heat Transfer, Thermal Management of Electronics, Non-traditional Thermal Desalination</p>	
<p><b>Prof. Neeraj Kumbhakarna</b> IC Engine Lab. <a href="mailto:neeraj_k@iitb.ac.in">neeraj_k@iitb.ac.in</a></p>	<p>TFE, Combustion Visualisation, and Optical Diagnostics, Computational fluid dynamics and heat transfer, Thermodynamics, Combustion of Energetic Materials,</p>	
<p><b>Prof. S.V. Prabhu (SVP)</b> ME Department/308 D <a href="mailto:svprabhu@iitb.ac.in">svprabhu@iitb.ac.in</a></p>	<p>Fluid Mechanics, Heat Transfer, Flowmetering, Hydrokinetic turbines and wind turbines, Impinging jets (subsonic and supersonic), Premixed flame jets, Internal cooling passages</p>	
<p><b>Prof. BhalchandraPuranik (BPP)</b> ME Department/F 40 <a href="mailto:puranik@iitb.ac.in">puranik@iitb.ac.in</a></p>	<p>Compressible Fluid Dynamics and Shock Waves, High-Knudsen Number High-Speed Internal and External Flows, Convective Heat Transfer Applications</p>	
<p><b>Prof. Milind Rane (MVR)</b> Heat Pump Lab. <a href="mailto:ranemv@iitb.ac.in">ranemv@iitb.ac.in</a></p>	<p>Refrigeration, Alternate Energy Resources Energy Conservation, HVAC&amp;R, and Alternate Energy Resources</p>	
<p><b>Prof. Sandip Kumar Saha (SKS)</b> ME Department/S 27 <a href="mailto:sandip.saha@iitb.ac.in">sandip.saha@iitb.ac.in</a></p>	<p>Cooling technologies, Heat Transfer, Computational Fluid Dynamics, Renewable energy and energy storage, Multiphase flow,</p>	





<p><b>Prof. Atul Sharma (AS)</b> ME Department/F 31 <a href="mailto:atulsharma@iitb.ac.in">atulsharma@iitb.ac.in</a></p>	<p>Multiphase Flow, Convective Heat Transfer, CFD, CHD</p>	
<p><b>Prof. SreedharaSheshadri (SSR)</b> IC Engine Lab. <a href="mailto:sreedhara.s@iitb.ac.in">sreedhara.s@iitb.ac.in</a></p>	<p>Computational Fluid Dynamics, Turbulent Combustion, Engine Combustion, LES/DNS of complex turbulent reacting flows, soot modelling</p>	
<p><b>Prof. Arun Kumar Sridharan (AKS)</b> THTF Lab. <a href="mailto:arunsri@iitb.ac.in">arunsri@iitb.ac.in</a></p>	<p>Two-phase Heat Transfer, Experimental fluid dynamics and heat transfer, Two-phase flow and heat transfer, Nuclear Reactor Safety</p>	
<p><b>Prof. Atul Srivastava (ASR)</b> ME Department/F 07 <a href="mailto:atulsr@iitb.ac.in">atulsr@iitb.ac.in</a></p>	<p>Heat and Mass Transfer, Two-phase flows, Bioheat transfer, Optical techniques for whole field measurements, Optical tomography, Crystal Growth, Biomedical applications of lasers</p>	
<p><b>Prof. R. P. Vedula (RPV)</b> THTF Lab. <a href="mailto:rpv@iitb.ac.in">rpv@iitb.ac.in</a></p>	<p>Fluid flow, heat transfer</p>	
<p><b>Prof. Dipanshu Bansal</b> ME Department/F 40 <a href="mailto:dipanshu@iitb.ac.in">dipanshu@iitb.ac.in</a></p>	<p>Vibrational spectroscopy, Energy transport, First-principles simulations of electronic structure.</p>	
<p><b>Prof. Ankit Jain</b> ME Department/S 20 <a href="mailto:a_jain@iitb.ac.in">a_jain@iitb.ac.in</a></p>	<p>Designing next-generation materials for energy applications.</p>	




❖ **Design Engineering:**

Name	Research Interest	Photograph
<b>Prof. Tanmay Bhandarkar (TKB)</b> ME Department/F34 <a href="mailto:Tbhandar2@iitb.ac.in">Tbhandar2@iitb.ac.in</a>	Elasticity, Analytical and numerical methods, Contact Mechanics, Fracture mechanics	
<b>Prof. P.S. Gandhi (PSG)</b> ME Department/S30 <a href="mailto:gandhi@iitb.ac.in">gandhi@iitb.ac.in</a>	Robotics, Mechatronics, Multi-scale manufacturing using fluid instabilities,	
<b>Prof. Anirban Guha (AGH)</b> ME Department/S31 <a href="mailto:anirbanguha@iitb.ac.in">anirbanguha@iitb.ac.in</a>	Design of machines for the textile industry, Tensegrity mechanisms, Structural health monitoring,	
<b>Prof. Abhishek Gupta (AG)</b> ME Department/S 32 <a href="mailto:Abhi.gupta@iitb.ac.in">Abhi.gupta@iitb.ac.in</a>	Robotics and controls, Human-robot interaction, Assistive devices for rehabilitation.	
<b>Prof. V. Kartik (VK)</b> ME Department/ 301 A <a href="mailto:vkartik@iitb.ac.in">vkartik@iitb.ac.in</a>	Dynamics, vibrations and control, Nano- and micro-scale devices, Electric and Hybrid Electric Vehicles,	
<b>Prof. Krishna Jonnalagadda (KNJ)</b> ME Department/S 22 <a href="mailto:krishnaj@iitb.ac.in">krishnaj@iitb.ac.in</a>	Microfabrication, Multifunctional Coatings, Experimental Mechanics, Fracture Mechanics,	
<b>Prof. Salil S. Kulkarni (SSK)</b> ME Department/F 38 <a href="mailto:Salil.kulkarni@iitb.ac.in">Salil.kulkarni@iitb.ac.in</a>	Computational Mechanics, Applied Mechanics, Finite Element Method, Boundary Element Method, Wave propagation and vibrations,	
<b>Prof. Vivek Sangwan</b> ME Department/S 17B <a href="mailto:Vivek.sangwan@iitb.ac.in">Vivek.sangwan@iitb.ac.in</a>	Robotics, Mechatronics, Dynamics, Control	
<b>Prof. P. Seshu</b> <a href="mailto:seshu@iitb.ac.in">seshu@iitb.ac.in</a> (Director, IIT Dharwad)	Finite element modelling, Computational Solid Mechanics,	









<p><b>Prof. Dhanesh Manik (DNM)</b> ME Department/S 41 <a href="mailto:dnmalik@iitb.ac.in">dnmalik@iitb.ac.in</a></p>	<p>Dynamics of machine Design Engineering</p>	
<p><b>Prof. Amit Singh</b> ME Department/S 26 <a href="mailto:amit.k.singh@iitb.ac.in">amit.k.singh@iitb.ac.in</a></p>	<p>Continuum Mechanics, Multiscale methods, Statistical Mechanics, Heat conduction, Transport</p>	
<p><b>Prof. S. Suryanarayanan (SSN)</b> ME Department/F 33 <a href="mailto:Shashin@iitb.ac.in">Shashin@iitb.ac.in</a></p>	<p>Mechatronics, Energy management, Control system design</p>	
<p><b>Prof. Parag U. Tandaiya (PUT)</b> ME Department/S 18 <a href="mailto:Parag.ut@iitb.ac.in">Parag.ut@iitb.ac.in</a></p>	<p>Fracture mechanics, Finite element modelling, Computational Solid Mechanics, Mechanical Behaviour of Materials</p>	
<p><b>Prof. Sripriya Ramamoorthy</b> ME Department/S 29 <a href="mailto:ramamoor@iitb.ac.in">ramamoor@iitb.ac.in</a></p>	<p>Acoustics, Auditory Biomechanics, Porous materials</p>	
<p><b>Prof. Shantanu Tripathi</b> ME Department/S 06 <a href="mailto:tripathi@iitb.ac.in">tripathi@iitb.ac.in</a></p>	<p>Design for Reliability, Mechanical &amp; Environmental Reliability of Electronics, Solder Joint Fatigue,</p>	
<p><b>Prof. Darshan S. Shah</b> ME Department/S17 <a href="mailto:d.shah@iitb.ac.in">d.shah@iitb.ac.in</a></p>	<p>Biomechanics, Orthopaedics, Musculoskeletal system, In-vitro testing</p>	
<p><b>Prof. R. Ganesh</b> NCAIR <a href="mailto:ganeshr@iitb.ac.in">ganeshr@iitb.ac.in</a></p>	<p>Metamaterials, Waves and Vibrations, Applied Mechanics</p>	



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❖ **Manufacturing Engineering:**

Name	Research Interest	Photograph
<p><b>Prof. Avinash Bhardwaj</b> ME Department/S 40 <a href="mailto:abhardwaj@iitb.ac.in">abhardwaj@iitb.ac.in</a></p>	<p>Conic (mixed) integer programming, Linear and Non-Linear Discrete Optimization, Polyhedral</p>	
<p><b>Prof. P. P. Date (PPD)</b> ME Department/G 41 <a href="mailto:ppdate@iitb.ac.in">ppdate@iitb.ac.in</a></p>	<p>Metal Forming Processes, Formability, Shop Floor Metallic waste processing, Powder Metallurgy, Metal Injection Moulding</p>	
<p><b>Prof. Amitava De (AD)</b> ME Department/S 35 <a href="mailto:amit@iitb.ac.in">amit@iitb.ac.in</a></p>	<p>Welding, LENS, DFM Joining, Additive Manufacturing, Numerical Modelling.</p>	
<p><b>Prof. S. S. Joshi (SSJ)</b> ME Department/F 36 <a href="mailto:ssjoshi@iitb.ac.in">ssjoshi@iitb.ac.in</a></p>	<p>Modelling of Manufacturing Processes, Machining of Advanced Materials, precision manufacturing.</p>	
<p><b>Prof. K. P. Karunakaran (KPK)</b> RM Lab. <a href="mailto:karuna@iitb.ac.in">karuna@iitb.ac.in</a></p>	<p>Computer Numerical Control, Rapid Prototyping &amp; Tooling, Computer Graphics</p>	
<p><b>Prof. S. S. Pande (SSP)</b> ME Department/S 39 <a href="mailto:s.s.pande@iitb.ac.in">s.s.pande@iitb.ac.in</a></p>	<p>Multi-axis CNC machining, CAD, CAM, Computer Graphics</p>	









<p><b>Prof. Sushil Mishra (SKM)</b> ME Department/S 14 <a href="mailto:sushil.mishra@iitb.ac.in">sushil.mishra@iitb.ac.in</a></p>	<p>Micro forming, Sheet metal forming, Thermomechanical processing</p>	
<p><b>Prof. B. Ravi (BR)</b> ME Department/S 34 <a href="mailto:b.ravi@iitb.ac.in">b.ravi@iitb.ac.in</a></p>	<p>Casting, DFM, Computer-Aided Surgery, Medical device innovation, Web-based education</p>	
<p><b>Prof. Ramesh K. Singh (RKS)</b> Machine tools lab. <a href="mailto:rsingh@iitb.ac.in">rsingh@iitb.ac.in</a></p>	<p>Micromachining, Precision &amp; Hybrid machining, Laser Micromachine</p>	
<p><b>Prof. Pradeep Dixit (PD)</b> ME Department/S 25 <a href="mailto:pradeep.dixit@iitb.ac.in">pradeep.dixit@iitb.ac.in</a></p>	<p>Microfabrication, MEMS,3D</p>	
<p><b>Prof. Alankar Alankar</b> ME Department/S 23 <a href="mailto:alankar.alankar@iitb.ac.in">alankar.alankar@iitb.ac.in</a></p>	<p>Multiscale Computational Mechanics of Materials, Crystal Plasticity, Integrated Computational</p>	
<p><b>Prof. Asim Tewari (AT)</b> ME Department/S 08 <a href="mailto:asim.tewari@iitb.ac.in">asim.tewari@iitb.ac.in</a></p>	<p>Crystal plasticity, Nanocomposites, microstructural mechanics</p>	
<p><b>Prof. Shyamprasad Karagadde (SPK)</b> ME Department/S 33 <a href="mailto:s.karagadde@iitb.ac.in">s.karagadde@iitb.ac.in</a></p>	<p>Computational &amp; Data methods, Solidification, Microstructures, Transport phenomena X-ray Imaging and microtomography</p>	
<p><b>Prof. Rakesh G. Mote (RGM)</b> ME Department/101 <a href="mailto:rakesh.mote@iitb.ac.in">rakesh.mote@iitb.ac.in</a></p>	<p>FIB, Plasmonics, UPM, Non-conventional machining, machining of advanced materials.</p>	



<p><b>Prof. Amol Gokhale (AAG)</b> ME Department/301 D <a href="mailto:gokhale@iitb.ac.in">gokhale@iitb.ac.in</a></p>	<p>Manufacturing Engineering</p>	
<p><b>Prof. Makarand S. Kulkarni (MSK)</b> ME Department/S 10 <a href="mailto:muskulkarni@iitb.ac.in">muskulkarni@iitb.ac.in</a></p>	<p>Reliability Engineering, Maintenance Planning, Quality Engineering</p>	
<p><b>Prof. Deepak Marla</b> ME Department/301 B <a href="mailto:dmarla@iitb.ac.in">dmarla@iitb.ac.in</a></p>	<p>micro/nano-manufacturing</p>	
<p><b>Prof. Amber Shrivastava</b> ME Department/301 C <a href="mailto:a.shrivastava@iitb.ac.in">a.shrivastava@iitb.ac.in</a></p>	<p>Friction Stir Welding, Sustainable Manufacturing, Modulation Assisted Machining,</p>	
<p><b>Prof. Soham Mujumdar</b> ME Department/S 17 <a href="mailto:sohammujumdar@iitb.ac.in">sohammujumdar@iitb.ac.in</a></p>	<p>Micro/nano-manufacturing, Modelling of manufacturing processes, Cutting fluid delivery</p>	
<p><b>Prof. Gurminder Singh</b> ME Department/S 17 <a href="mailto:a.shrivastava@iitb.ac.in">a.shrivastava@iitb.ac.in</a></p>	<p>Additive Manufacturing, Rapid Tooling, Powder Metallurgy, CAD/CAM, BioManufacturing, BioMaterials, Polymers and Metal foams, Composites, Bio-Implants, Non-conventional Machining</p>	



## Office Staff

Name	Role	Email Id	Photograph
<b>Ms. Komal Ashok Sakharkar</b>	Junior Administrative Assistant	<a href="mailto:komals@iitb.ac.in">komals@iitb.ac.in</a>	
<b>Mr. Nishikant Meshram</b>	Junior Administrative Assistant	<a href="mailto:nishikant.meshram@iitb.ac.in">nishikant.meshram@iitb.ac.in</a>	
<b>Mr. Sachin B. Kasar</b>	Junior Administrative Assistant	<a href="mailto:sachinknk@iitb.ac.in">sachinknk@iitb.ac.in</a>	
<b>Ms. Anamika Bharankar</b>	Junior Administrative Assistant	<a href="mailto:10001901@iitb.ac.in">10001901@iitb.ac.in</a>	
<b>Mr. Aniket Kamble</b>	Software Engineer	-----	
<b>Ms. Mukta Magar</b>	-----	-----	
<b>Mr. Subhas Sable</b>	Office Attendant		



## **Research Facilities Available**

The department of Mechanical Engineering, IIT Bombay, has well-equipped facilities where research in the domains of Thermal and fluid engineering, Manufacturing, and Design engineering is conducted. There are 36 laboratories in the department, which are scattered across the entire IIT Bombay campus. In comparison to any other department in the institute, the mechanical department has the most laboratories and workshops. The department provides core central facilities that house a number of modern instruments necessary for present day research.

The Mechanical Engineering department of IIT Bombay has several Instructional and Research laboratories, listed below:

### **❖ Thermal & Fluid Engineering:**

- 1) Computational Fluid Dynamics Laboratory
- 2) Geophysical Fluid Dynamics Laboratory
- 3) Heat Pump Laboratory
- 4) Interfacial Flow Laboratory
- 5) Internal Combustion Engines & Combustion Laboratory
- 6) Microfluidics Laboratory
- 7) Optical instrumental Laboratory
- 8) Refrigeration & Air Conditioning Laboratory
- 9) Scalable Algorithms & Numerical methods in the computing laboratory
- 10) Thermal energy material & system laboratory
- 11) Thermal-hydraulics test facility
- 12) Thermal science laboratory
- 13) Water tunnel & PIV facility

### **❖ Design Engineering:**

- 1) Acoustics & Hearing Laboratory
- 2) Computational Solid Mechanics Laboratory





- 3) Intelligent Dynamical Ubiquitous Systems Lab
- 4) Mechanics of Materials Laboratory
- 5) Robotics Laboratory
- 6) Solid Mechanics Laboratory
- 7) Suman Mashruwala Advanced Microengineering Laboratory
- 8) Textile Machines Laboratory
- 9) Vibration & Acoustics Laboratory

❖ **Manufacturing Engineering:**

- 1) Advanced Mechanical Testing Facility
- 2) Biomedical Engineering & Technology (Incubation) Centre
- 3) Central Workshop
- 4) Computer-Aided Manufacturing Laboratory
- 5) Electrochemical Micro fabrication Laboratory
- 6) High-Performance and Sustainable Manufacturing Lab
- 7) ICME & Materials Genome Laboratory
- 8) Machine Tools Laboratory
- 9) Metal Forming Laboratory
- 10) Micro-structural Mechanics & Micro forming Laboratory
- 11) National Centre for Aerospace Innovation and Research
- 12) Rapid Manufacturing Laboratory
- 13) Solidification Laboratory
- 14) Welding Laboratory

❖ **Materials, Manufacturing and Modelling (MMM):**

It is an interdisciplinary specialisation and thus provides laboratory facilities of the Mechanical engineering, MEMS and Mathematics department.



## Laboratory Images:



Production Engineering Lab



Velocimetry Lab



Vibration & Instrumentation Lab



Robotics & Automation lab



Solidification Lab



Machine Tool Lab



## **Mood Indigo**

Mood Indigo, also known as MoodI or MI, is the cultural and signature festival of Indian Institute of Technology Bombay. Mood Indigo annually entertains a footfall of more than 1,46,000 students from over 1700 colleges spanning across India. Started in 1971, it has attracted people from all over the globe. Mood Indigo has lived through decades of musical and cultural changes, not only keeping up with the times but also setting new standards for cultural fests each year. From bonfire nights, games, standups and performances by some of the biggest artists, to street competitions, workshops, and exhibitions, you will never be able to see it all, but what you do see will last a lifetime. Find yourself lost in the magic of Mood Indigo, each day better than the last, surprises at every turn and towards the end, your only wish would be to experience the best 4 days of your life all over again.





## **Techfest (<https://techfest.org/>)**

Techfest is the Indian Institute of Technology Bombay's annual science and technology festival, which includes social projects and outreach programs throughout the year. With the goal of creating a forum for the Indian student community to learn and demonstrate their technological prowess, the three-day event attracts visitors from all over the world, including students, academics, corporations, and the general public.

Techfest hosted a variety of online competitions for participants from all around the world in 2020-21. These competitions covered a wide range of topics, including artificial intelligence (AI) under RecogniSign and Email Classifier, software development under Smart UI and Site developer, and application-based challenges such as Design for Defence, Computational Agriculture, and Corp Comp. Covideate, Ujjwal Bharat, and Aero Vaccine, which require participants to come up with innovative solutions to real-world challenges. This was held in online mode.

Be a part of this event not only to explore your horizon but also to meet and share information with people all over the world.





## **Mech Glories**

### **IITB Racing:**

A group of students from IIT Bombay who are united by their passion for engineering, and the desire to fulfil a common goal of putting India on the world map of race all-terrain car manufacturers. It started on a journey in June 2007. They participated in Formula SAE 2008, held in Michigan, USA, in May 2008. IIT Bombay was proud to be the only Indian team participating in the event. Since its inception in 2008, IITB Racing has targeted excellence at the premier SAE Collegiate Design Competitions: Formula SAE (formula race car competition), and the Baja SAE (all-terrain vehicle competition). IITB Racing's formula car 'Vayu' won the SAE Perseverance award for the Best Rookie Team at the FSAE Michigan 2008 event, held at Michigan International Speedway in May 2008.

The second vehicle, 'Prithvi,' an all-terrain vehicle, won 5 awards (including Best Engineering Design and Maximum Acceleration) at the Baja SAE India 2009 event, held at NATRIP, Pithampur in January 2009. The 3rd vehicle 'Agni,' a formula car, was the 2nd best Asian entry at the FSUK competition, held at the famous Silverstone Formula One Circuit, U.K., in July 2009. In Baja SAE 2011, Prithvi 2.0 won the Raftar Award of 1 Lakhs INR for being the Lightest and the Fastest Vehicle in the competition.





## **Radiance:**

The Annual Research and Technology Festival of the Department of Mechanical Engineering of IITB, or Radiance was first initiated in the year 2007. Over the years, it has built its legacy and reputation of being a platform for fostering brotherhood amongst the Mechanical Engineering fraternity across the nation. It is a stage for the discussion of the challenges plaguing Mechanical Engineering, of the full world of opportunities that lies before us, and of the innovative and creative ideas that just strike people, in the "Radiance" and guests from over 100 colleges and corporate companies, Radiance is just getting bigger and bigger. Thrilling competitions, innovative and fresh paper presentations, exciting hands-on workshops, and exhibitions that are a treat to the eyes and many inform.





## M.Tech Projects of 2021 Batch

### 1) Thermal & Fluid Engineering:

Name	Category	Project Area / Title	Guide	Email id/Contact no.
Dibyajyoti Chakraborty	TA	Neural Networks for CFD	Prof. Shiva Gopalkrishnan	<a href="mailto:213100011@iitb.ac.in">213100011@iitb.ac.in</a> 7209894399
Onkar Balasaheb Patil	TA	Design & Development of Medical waste Combustor	Prof. Arindrajit Chowdhury	<a href="mailto:213100016@iitb.ac.in">213100016@iitb.ac.in</a> 7057780901
Mahima Bunker	TA	Machine learning applied to biomedical studies	Prof. Amit Agarwal	<a href="mailto:213100028@iitb.ac.in">213100028@iitb.ac.in</a> 8319676717
Shivank Sharma	TA	Prediction of meso-scale weather systems and their extremes using state of art deep learning technique	Prof. Sridhar Balasubramanian	<a href="mailto:213100006@iitb.ac.in">213100006@iitb.ac.in</a> 7078005060
Devendra kumar Koushal	TA.	Molecular Dynamics Simulation for Chemical Reaction	Prof. Upendra Bhandarkar	<a href="mailto:213100029@iitb.ac.in">213100029@iitb.ac.in</a> 6260121475
Shadab Alam	TA	Thermal Conductivity using 1st principle	Prof. Ankit Jain	<a href="mailto:213100010@iitb.ac.in">213100010@iitb.ac.in</a> 8584960111
JNC Ramola	Navy	Study and modification of Nozzle Design of NBC pre wetting system of active IRSS of a particular class of Ship	Prof. Sandip Kumar Saha	<a href="mailto:213104008@iitb.ac.in">213104008@iitb.ac.in</a> 8006533152



Agale Sagar Ashok	Navy	Optimization of surface profiles for reduction of drag on underwater appendages	Prof. Amit Agarwal	<a href="mailto:213104007@iitb.ac.in">213104007@iitb.ac.in</a> 9923707992
Preetesh Srivastava	Navy	Design optimisation and fitment of TEG(Thermo Electric Generator) of higher capacity on Diesel Engine at Shivaji	Prof. Atul Shrivastava	<a href="mailto:213104003@iitb.ac.in">213104003@iitb.ac.in</a> 8605104588
Surej Pillai	Navy	Modelling and Simulation study of an engine room of any ship towards identification of hotspots, its effect on overall temperature of the engine room and measure to mitigate hotspots and reduction of temperature of engine room through optimization and reorientation of ventilation	Prof. Arunkumar Sridharan	<a href="mailto:213104002@iitb.ac.in">213104002@iitb.ac.in</a> 7741062326
Abhilash Cherian	Navy	Simulation Study of Droplet evaporation pattern of a hybrid IRSS for a Gas Turbine Propelled Ship	Prof. Atul Shrivastava	<a href="mailto:213104006@iitb.ac.in">213104006@iitb.ac.in</a> 7304797743
Mohit Kapoor	Navy	Simulation Study of effects of installation of fins on boss of Propeller on its efficiency and performance	Prof. Neeraj Kumbhakarna	<a href="mailto:213104004@iitb.ac.in">213104004@iitb.ac.in</a> 7093762459
Sehaj Shah Singh	Navy	Modelling and Simulation of GT exhaust system of ship to assess effects of obstruction in flow path rendered by fitment of WHRS and its effects on temperature drop, back pressure and	Prof. Sreedhara Sheshadri	<a href="mailto:213104005@iitb.ac.in">213104005@iitb.ac.in</a> 8297735580





performance of GT.				
Anas Ahmed Elamin Ahmed	Foreign	Thermal Energy Storage	Prof. M V Rane	<a href="mailto:213101003@iitb.ac.in">213101003@iitb.ac.in</a> 8097735322
Bor Abubakalsedig Bor	Foreign	Two-phase heat transfer phenomena under atmospheric and sub-atmospheric conditions	Prof. Atul Srivastava	<a href="mailto:213101004@iitb.ac.in">213101004@iitb.ac.in</a> 8097735320
Mohamed Fadol Orsod Ornasir	Foreign	Micro-Wind Power Generators	Prof. M V Rane	<a href="mailto:213101005@iitb.ac.in">213101005@iitb.ac.in</a> 8097735311
Shekhar Singh	Institute Staff	CFD and Experimental Study of Pump Sump Flow	Prof. S. V .Prabhu	<a href="mailto:203045001@iitb.ac.in">203045001@iitb.ac.in</a> 9045863542



## 2) Design Engineering:

Name	Category	Project Area / Title	Guide	Email id/Contact No.
Yogesh S. Sale	TA	Electric motor noise and vibration	Prof. V. Kartik	<a href="mailto:213100061@iitb.ac.in">213100061@iitb.ac.in</a> 9167874193
Deepak Kumar Thakur	Foreign Candidate	Artificial Intelligence in Vibration-based condition monitoring	Prof. Dhanesh N Manik	<a href="mailto:213101001@iitb.ac.in">213101001@iitb.ac.in</a> 9843833483
Ankita Shrimali	Sponsored Candidate	Harmonic Drive Gear Transmission	Prof. Prasanna S. Gandhi	<a href="mailto:213104017@iitb.ac.in">213104017@iitb.ac.in</a> 9421974513
Thirumalasetty Sravan Sai Kumar	TA	3D Microprinting	Prof. Prasanna S. Gandhi	<a href="mailto:213100053@iitb.ac.in">213100053@iitb.ac.in</a> 9110730008
Ayush Pandya	TA	Peridynamics	Prof. Tanmay Bhandarkar	<a href="mailto:213100037@iitb.ac.in">213100037@iitb.ac.in</a> 9879894360
K S S N A Deekshit	Sponsored Candidate	Analysis and control of compliant mechanisms	Prof. Prasanna S. Gandhi	<a href="mailto:213104010@iitb.ac.in">213104010@iitb.ac.in</a> 9177758389
Rohan Manohar Kulkarni	RAP	Simulations of the hyper-velocity impact on the conventional spacecraft shields	Prof. Parag U. Tandaiya	<a href="mailto:21310r001@iitb.ac.in">21310r001@iitb.ac.in</a> 7387708587
Galla Rama Srinivas	Sponsored Candidate	Enhancing Mobility in Remotely Operated Vehicles using Design optimization techniques.	Prof. Anirban Guha	<a href="mailto:213104014@iitb.ac.in">213104014@iitb.ac.in</a> 9427851798



Sameer Rawal	Foreign Candidate	Design and development of artificial knee joint	Prof. Darshan S Shah	<a href="mailto:213102008@iitb.ac.in">213102008@iitb.ac.in</a> 9755886282
Himanshu Singhal	TA	Fracture analysis in composites using phase-field method	Prof. Tanmay Bhandarkar	<a href="mailto:213100001@iitb.ac.in">213100001@iitb.ac.in</a> 7988284144
Munna Kumar Sah	Foreign Candidate	Reverse Ankle arthroplasty	Prof. Darshan S Shah	<a href="mailto:213102004@iitb.ac.in">213102004@iitb.ac.in</a> +918683922196
Ravi Narayan Sah	Foreign Candidate	Design and Fabrication of a Bipedal Walking Robot Test Bed	Prof. Vivek Sangwan	<a href="mailto:213102001@iitb.ac.in">213102001@iitb.ac.in</a> 7540961716
Nagaraja M	Sponsored Candidate	Integration of sensor for a Robotic refuelling system	Prof. Anirban Guha	<a href="mailto:21310416@iitb.ac.in">21310416@iitb.ac.in</a> 8431406499
Sonam Mishra	Sponsored Candidate	Object detection and sensor data fusion	Prof. Anirban Guha	<a href="mailto:213104015@iitb.ac.in">213104015@iitb.ac.in</a> 7030478268
Vishal Hemraj Ukey	TA	Computational quantification of MCL strain	Prof. Darshan Shah	<a href="mailto:213100059@iitb.ac.in">213100059@iitb.ac.in</a> 8275721932
Vigneshwar K S	Sponsored Candidate	Automation in Onion Harvesting	Prof. Anirban Guha	<a href="mailto:213104011@iitb.ac.in">213104011@iitb.ac.in</a> 9884679177
Mujahed Patil	RA	Multidisciplinary design optimization and optimal control using dymos and OpenMDAO	Prof. Salil Kulkarni	<a href="mailto:193109009@iitb.ac.in">193109009@iitb.ac.in</a> 8180866114



### 3) Manufacturing Engineering:

Name	Category	Project Area / Title	Guide	Email id/ Contact No.
Apurv Mishra	RA	Machine Learning model for HPDC	Prof. Shyamprasad Karagadde	<a href="mailto:203109004@iitb.ac.in">203109004@iitb.ac.in</a> 8871197575
Amber Verma	RA	Multimodal data analysis for fault detection in electric motor.	Prof. Soham Mujumdar	<a href="mailto:ambery2j@iitb.ac.in">ambery2j@iitb.ac.in</a> 8586823408
Dushyant Patil	RA	Vibration Condition Monitoring using ML	Prof. Asim Tewari	<a href="mailto:203170020@iitb.ac.in">203170020@iitb.ac.in</a> 9850082256
Soumya Ranjan Mishra	TA	Repairable system reliability prediction	Prof. Makarand S Kulkarni	<a href="mailto:213100072@iitb.ac.in">213100072@iitb.ac.in</a> 7377687341
Ashutosh Pathak	TA	Digital Twin enabled Smart Machines catering to changing demands of Industry 4.0	Prof. Makarand S Kulkarni	<a href="mailto:213100073@iitb.ac.in">213100073@iitb.ac.in</a> 7792936143
Revanth Regulavalasa	TA	Multi-physics study of solidification of superalloys in Vacuum arc remelting process	Prof. Shyamprasad Karagadde	<a href="mailto:213100070@iitb.ac.in">213100070@iitb.ac.in</a> 7675023284
Prateek Kumar Singh	TA	Hierarchical model on Human activity detention	Prof. Asim Tewari	<a href="mailto:213100075@iitb.ac.in">213100075@iitb.ac.in</a> 9315585970



Akshay Bhandarkar	TA	Laser-Assisted Machining of Titanium Alloys	Prof. Deepak Marla	<a href="mailto:213100065@iitb.ac.in">213100065@iitb.ac.in</a> 8976012044
Devang Karuskar	TA	Machine to human communications using NLP	Prof. Asim Tewari	<a href="mailto:karuskar.devang@gmail.com">karuskar.devang@gmail.com</a> 9924660210
Akash Biradar	TA	Laser colour predictability using deep learning	Prof. Deepak Marla	<a href="mailto:mailakashbiradar@gmail.com">mailakashbiradar@gmail.com</a> 9538209632
Parmal Chouriya	TA	Recycling of Technological waste into product manufacture.	Prof. Prashant P. Date	<a href="mailto:213100078@iitb.ac.in">213100078@iitb.ac.in</a> 9893550050
Subhasree Nayak	Sponsored	Intelligent and Industry 4.0 ready assets	Prof. Makrand S Kulkarni	<a href="mailto:213104021@iitb.ac.in">213104021@iitb.ac.in</a> 7278345596
Busra Ansari	Self Sponsored	'Dynamics of Titania Nanotubes (TNT) Growth on Additively Manufactured Biomedical Implants'	Prof. Rakesh Mote	<a href="mailto:213104001@iitb.ac.in">213104001@iitb.ac.in</a> 9561153001
Bimlesh Kumar Shah	Foreign Candidate	Sintering through machine learning/ powder metallurgy, AI/ML	Prof. Prashant P. Date	<a href="mailto:213102007@iitb.ac.in">213102007@iitb.ac.in</a> 8686590871
Bijay Kumar Shah	Foreign Candidate	ML-based approach for curvature estimation	Prof. Shyamprasad Karagadde	<a href="mailto:bijayshah726@gmail.com">bijayshah726@gmail.com</a> 8295293289
Rajiv Ranjan	Foreign Candidate	Structural Property Correlation of Material using ML	Prof. Alankar Alankar	<a href="mailto:213102003@iitb.ac.in">213102003@iitb.ac.in</a> 8797061070



#### 4) Materials, Manufacturing and Modelling:

Name	Category	Project Area / Title	Guide	Email id/Contact no.
Shivansh Singh	TA	Electrochemical etching of Al foil for capacitor application	Prof. S.Parida	<a href="mailto:213370004@iitb.ac.in">213370004@iitb.ac.in</a> 6265070744
Manish Kumar	TA	Estimation of defects in additive Manufacturing	Prof. Amitava De	<a href="mailto:213370005@iitb.ac.in">213370005@iitb.ac.in</a> 7985526584
Ashish Kumar	TA	3D printing of graphene -polymer composite	Prof. Shobha Shukla	<a href="mailto:213370007@iitb.ac.in">213370007@iitb.ac.in</a> 7054180704
Bathini Nikhil Goud	TA	PHASE FIELD MODELLING	Prof. M.P. Gururajan	<a href="mailto:213370006@iitb.ac.in">213370006@iitb.ac.in</a> 7981905155
Dipanshu Vijay Banote	TA	Effect of Hashing on Warpage during Additive Manufacturing	Prof. Asim Tewari	<a href="mailto:213370001@iitb.ac.in">213370001@iitb.ac.in</a> 9527922657



## **Department Council PG Representative**

The department council is a student association who is responsible for fostering and developing all academic as well as non-academic student activities of the department. They are responsible for increasing the social interaction between the faculties and students as well as among the students of different batches. The Department council PG representative comprises PG Nominee Academic Affairs, PG sports nominee & PG cultural nominee who coordinate with the Department general secretary to organise various academic & non-academic events for postgraduate students.



**Parag Bajaj**

**General Secretary**

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**Karuskar Devangkumar Dhanshukbhai**  
**P.G. Cultural Nominee**

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## Placements

Placement Cell, IIT Bombay has catered to the dreams of many and will continue to do so. It organises various department and institute-level activities to build technical, and interpersonal skills to prepare them well. Please refer to the link for more info:

<https://campus.placements.iitb.ac.in/>



### PLACEMENT TEAM:

#### Institute Placement Manager (IPM)

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## PAST RECRUITERS:





## **Cultural Council (PG Cult)**

**<https://gymkhana.iitb.ac.in/~cultural/pg-cult>**

IITB traditional day celebrations:



IIT Bombay allows you to participate in a vast cultural community. Apart from academics, you get chances to showcase your talents and develop new passions in various genres like dance, dramatics, film and media, literary arts, photography and fine arts, music, speaking, Indian languages, lifestyle, design, classical and folk arts. We encourage all the students to come forward and participate in these events to make your time at IIT an enriching experience.

Following are different cultural events and participations:

<b>Name of the person</b>	<b>Event</b>	<b>Phase</b>	<b>Points</b>
Sanjeet Kumar	Open_mic(Literary Arts)	1	2
Bushra Ansari	Zentangles(Fine Arts)	1	2
Danjeet Kumar	Abhivyakti: Poetry Writing	1	10(1st prize)
Bijay Kumar Shah	Philtering(Speaking Arts)	1	2
Bijay Kumar Shah	The usual suspect	1	2
Adarsh Mathai	Cartoon It Event	2	1st Prize
Apakrita Tayade	Kalakriti	2	1st Prize

Among above, Mr. Adarsh Mathai achieved 1st prize in Cartoon It Event for following work:



Mr. Neeraj K. Mishra was a Senior Dramatics convener in the PG Convener team. Following are some of the photos of phase 2 dance events:





There are exclusive events for the PG community. PG Cult is the annual cultural festival targeted exclusively at the postgraduate community of IIT Bombay. Be a part of this to explore and make your time here most memorable.





## **Mechanical in Sports & Cultural**

Being the best institute in India, our campus is enriched with the best sports and cultural facilities. The Department not only stands out in research but also in sports & culture. Our Department is full of sports & cultural enthusiasts. At the end of the academic year, the points of formal and informal events are summed up. In sports, we were 3rd position overall, & 1st position among boys out of 21 departments in PGGC 2019-20. The department stood 7th during the academic year 2018-19 for cultural. On the other hand, we organise events such as the Faculty Vs PG cricket match where PG students & department faculty get once in a year the opportunity to play together under the same roof. Kurta day is the day when faculties & students showcase their hidden talent in activities such as dancing, singing, mimicry, etc. Through these competitions, we aim to promote interaction among faculty members and students to reduce the communication gap. IITB also organises camps for beginners where your interest is the only prerequisite. So, you are always welcome to pursue the sport & culture that you always wanted to give a try.

### **Achievements in**

#### **Sports Gold Medals - 2020**

##### **KHO-KHO (Boys)**

Divyaj Shah | Parth Parmar | Vishal Mahale  
Rohan Chavan | Keyur Borad | Prakash Suthar  
Rohtash Beniwal | Ammar | Kuljeet Singh  
Aniket Adsule | Shani Saha | Navneeth



##### **Football (Boys)**

Saptarshi Jana | Nishit Sen  
Aakash Chiwal | Jnana | Ram  
More Kuljeet Singh | Kunwar |  
Ajay Raj Abhijeet Bhardwaj | John



## ❖ Basketball

Pratik Marvar | Ajay raj | Shubhanshu  
| Anirudh | Gaurav Shrivastava | Jnana  
| Nishith sen | Kuljeet Singh |  
Mandeep



## Bronze Medals



## Chess (Boys)

Neel Kamal Gupta | Amey  
Suryawanshi Yash Shinde | Shani  
Saha | Pratik Dangar

## Badminton (Boys)

Shantanu | Saurabh Dash  
Himanshul | Alwin



## Badminton (Girls)

Shaily Bansal | Lavanya |  
Apakrita Tayade



## Lawn Tennis - 2021 (Men's)

Arunjoy - Silver medal

### Online Events in 2020-21:

1. Bronze medal, Men's cross country, Navneetha sarvanan
2. Girls chess team participant, Taijaswaini Agarwal | Jyoti Nayak
3. Boys Chess team, 5th position, Neel Kamal Gupta | Amey Suryawanshi | YashShinde | ShaniSaha | Pratik Dangar







## **Sports 2021-2022**

### CRICKET PGGC 2022



### **Cricket - 2022 (Boys)**

Vinay Chandraker | Kunwar Abhikeeran | Anish Ranjan | Tushar Ner | Het Mewada | Upendra Yadav | Nikhil Gaikwad | Akhilesh Goyal | Pratik Bagal | Rajesh Kapoor | Aditya Kulkarni | Amir Hamza Siddiqui | Kushagra Tiwari | Aman Kukreja | Kshitij Kumar Choudhary

### **Badminton (Boys)**



#### **Gold**

UTKARSH GODWAL AND VIKRAM BISHT

#### **Silver**

Preetesh Srivastava and Suej Pillai

#### **Bronze**

Bebhash S Raj and Saptarshi Jana

### **Badminton (Girls)**



Apakrita Vinayak Tayade, Neelima, Taijaswaini Agarwal, Yugandhara



## Table Tennis (Boys)



### Singles

Prakash Sutar | Gaurav Pandey | Apurv Mishra



### Double

Apurv Mishra and Ravichandra Murthy |  
Sunny Kumar and Prakasha Sutar | Prateesh  
Shrivastav and Harsh Modi

## Online Inter Department Events in 2021-22:





## **Achievements in Cultural :**

**2019-20:**



**Arcade Mania, Fashion Show**

Yash Shinde

Winner



**Colours of Life**

**PG Cult Photography Competition**

Vivek P. Revi, Winner



**Classical & Folk Dance Competition**

Apakrita Tayade

Runner-up



**Annual Insync Dance Show**

**AIDS 2020**

Jainil Shah | Saurabh M. | Jalaj  
G. Participants



**2020-21:**



**Groovy Night (solo) 2020, Dancing**

Dhileeban Nagarajan

Mathai Runner Up

**Scribble it out (solo) 2020, Arts**

Adarsh

Runner Up



**Freshezia (Solo) 2021, Dancing**

Dhileeban Nagarajan

Namratha Winner

**PG Cult Dancing (Duet) (Solo) 2021**

Dhileeban Nagarajan |

Runner Up



**Essay Competition 2nd Oct 2020, Literary Genre**

S Ravi Chandra Murty - Winner



## **To Help Us All**

### **Student Wellness Centre ( <http://www.iitb.ac.in/swc/en> )**

After securing admission at the Institute and starting your stay here, you may feel that a lot of parameters around you are different. You would have more responsibilities to handle at the hostel and at the academic level. Take heart, you will not be the only one. There are a few issues that almost everyone in the Institute faces initially like academic concerns, social (family and peer) pressure etc, leading to feelings of loneliness, low confidence, anxiety, stress, anger and sadness, to name a few.

To help you refrain from losing focus and being unhappy, the counsellors of SWC encourage you to approach them for any problem that you are facing- be it academic, emotional, social or financial without hesitation.

Counselling provides an opportunity for individuals to learn to make better choices, improve interpersonal skills, develop confidence and increase educational effectiveness. In a one-on-one meeting with a counsellor, students are helped to explore and express feelings, examine beliefs and ways of thinking about their present situation, reflect on patterns of behaviour, and work toward making healthier and happier changes.

### **❖ SWC and Covid-19**

**(<https://www.iitb.ac.in/swc/en/contact-during-lockdown>)**

The COVID-19 epidemic had an impact on people from many walks of life, as people were advised to self-quarantine in their homes to prevent the virus from spreading. The lockdown has a negative impact on mental health, resulting in frustration, stress, and depression.

The education industry has not been left out and the impact of COVID-19 on student life is visible. While at home, with their families, or away from them, many of them suffered from behavioural and mental illnesses. For instance: Anxiety, depression, loneliness, lack of attention, panic, fear, foreboding about the future, financial stress, and the list goes on.



To fight these stressful situations, SWC counsellors are always there to support students. SWC has begun TELEPHONE COUNSELLING DURING LOCKDOWN to assist students who are having difficulties. If you'd like to speak with a counsellor over the phone, please call at the following numbers during the hours listed below:

**Timings:** 11 am to 1 pm and 4 pm to 6 pm.

❖ **Gender Cell** ( <http://www.gendercell.iitb.ac.in/> )

IIT Bombay's Women's Cell has been in existence since 2002. With the enactment of the Institute's policy on sexual harassment, the Cell has been renamed the Gender Cell (GC). In recognition of the Institute's belief that its employees and students have a right to be treated with dignity and respect, the Cell works proactively towards developing a safe and secure environment for employees, and to ensure that all students may gain their education without fear of prejudice, gender bias, hostility or sexual harassment.



## **Important Information You Should Know**

- 1. LDAP ID:** It is the unique identification of each individual in IIT Bombay. By default, the LDAP ID assigned to you will be your roll number, and the associated password will be generated after you have come to the institute, and the requisite registration processes are completed.
- 2. Moodle:** It is the website which provides for academic interactions between faculty and students in IIT Bombay. From Moodle, you can download all the course materials uploaded by the Course Instructor for the course you have registered for and also interact with the faculty, and it is a forum for academic discussions. **Link:** <http://moodle.iitb.ac.in>
- 3. Webmail:** This is your personalised email in IIT B. You will get your Id when you get enrolled in IITB. **Link:** <https://webmail.iitb.ac.in>
- 4. Leave -** A total of 30 days of casual leave will be available for the entire course duration. Leave can be applied in mechanical engineering leave access systems. Permission of the guide is required for the leave approval. <https://www.me.iitb.ac.in/~mefac/>.
- 5. Computer Centre-** Computer centre manages all the network activity within the Institute. It also provides licensed software required in academics <https://www.cc.iitb.ac.in/>
- 6. Central Library -** Central library website provides a search engine for the books available in the library. <https://opac.library.iitb.ac.in/>
- 7. Application Software Centre (ASC) -** ASC is the first interactive website for all the administrative requirements of a student. It includes payment of fees, registration, and deregistration from courses, checking grades awarded in subjects, brief contents of all the subjects being offered, timetable, and a lot more information. For more information, please visit <https://asc.iitb.ac.in/>



## **Useful Links**

**ISCP:** <https://gymkhana.iitb.ac.in/~scp/scp/index.html>

**Students activities -:** <https://gymkhana.iitb.ac.in/>

**Hostel affairs:** <https://gymkhana.iitb.ac.in/hostels/>

**Cultural:** [https://gymkhana.iitb.ac.in/~cultural/web/login\\_form.php](https://gymkhana.iitb.ac.in/~cultural/web/login_form.php)

**Sarc:** <https://sarc-iitb.org/>

**CDEEP (Centre For Distance Engineering Education Programme):**  
<http://www.cdeep.iitb.ac.in/index.php>

**IITBombayx:** <https://www.iitbombayx.in/about>

**Gendercell IITB:** <http://www.gendercell.iitb.ac.in/>

**Ph.D. and M.Tech Thesis Abstract:**  
[http://etd.library.iitb.ac.in/etd/Etd\\_View.jsp](http://etd.library.iitb.ac.in/etd/Etd_View.jsp)

**Placement Blog:** <http://placements.iitb.ac.in/blog/>

**Application Management System:** <https://ams.iitb.ac.in/pages/login>





## **Some Useful Apps**

### **1) InstiApp:**

InstiApp is an Android App that helps you navigate through the IIT Bombay Campus. It is a one-stop solution for all the queries above and beyond. An app of the insti, for the insti, and by the insti, it connects all the aspects of one's insti life, weaving around hostels, academics, co-curricular activities, and

recreation. [https://play.google.com/store/apps/details?id=app.insti&hl=en\\_IN](https://play.google.com/store/apps/details?id=app.insti&hl=en_IN)

### **2) Instimap:**

InstiMap is a searchable map of the campus, specially designed for first-time visitors and new entrants, to find their way around IIT Bombay with ease. It is available on instiApp - an Android App that helps you navigate through the various events on IIT Bombay Campus. It is available at <https://insti.app/map>

### **3) m-Indicator:**

This app contains the Local Train Timings of Mumbai and also details the local train routes for IIT Bombay. One can also find the various bus routes and the bus numbers on this app.

<https://play.google.com/store/apps/details?id=com.mobond.mindicator>

### **4) OpenVPN Connect App:**

OpenVPN Connect is the official VPN application for Android developed by OpenVPN, Inc. It is a universal client serving the following OpenVPN products:

⇒ AccessServer – server solution for businesses

⇒ OpenVPN Compatible Server – solution for self-hosted servers

It can be used for connecting with IITB Internal sites using a VPN.

[https://play.google.com/store/apps/details?id=net.openvpn.openvpn&hl=en\\_IN](https://play.google.com/store/apps/details?id=net.openvpn.openvpn&hl=en_IN)

### **5) MYBYK App:**

Whether you want to ride a cycle at home or use it to commute within your campus, whenever you need a cycle, find an MYBYK near you. Unlock using your smartphone and pedal your way to a healthy life.



<https://play.google.com/store/apps/details?id=in.greenpedia.mybyk>

**6) SHIRU CAFÉ:**

Order your free drink in the app. Simply launch the app and tap the drink you would like to order.

<https://play.google.com/store/apps/details?id=jp.co.enrission.shirucafe>

**7) Aarogya Setu:**

Aarogya Setu is a mobile application developed by the Government of India to connect essential health services with the people of India in our combined fight against COVID-19. The App is aimed at augmenting the initiatives of the Government of India, particularly the Department of Health, in proactively reaching out to and informing the users of the app regarding risks, best practices, and relevant advisories about the containment of COVID-19.

<https://play.google.com/store/apps/details?id=nic.goi.aarogyasetu>

**8) Useful apps for online study:**

Live lectures may be conducted on any of the following apps: Microsoft Teams, Cisco Webex, Zoom and Google meet. Apart from these recorded lectures by professors maybe provided on Youtube.



## **A reminder of things before coming to IIT Bombay**

**1. The following documents are necessary for the completion of the admission process:**

- 1) Gate Score Card
- 2) 10th and 12th mark sheet
- 3) Semester wise grade sheet or mark-sheet / Final transcript
- 4) Provisional Degree Certificate / Degree Certificate
- 5) Migration / Transfer Certificate
- 6) Passport size photograph (at least 12).
- 7) ID and Address proof (PAN card, Driving Licence, Passport, Voter ID)
- 8) Category Certificate (if applicable)
- 9) Also, bring at least two photocopies of each of the documents and bring at least 12 copies of your passport size photograph.

**Note: Moreover, if you are unable to produce the final transcripts, you can submit them till September by producing an undertaking.**

**2.** Make your luggage light. The campus has a variety of shops (like Y-point or IIT Market) where you can purchase all the basic required things. Each hostel has a general store for other essentials. There are a couple of supermarkets (D-Mart, Haiko) within 1 km from the main gate. Try to avoid bringing things like mattress, pillow, buckets, etc. small shops with these things will be put up on the campus itself during a few initial days. Bed dimensions are 6ft \* 3ft. So, you can bring bed sheets accordingly. Otherwise, you can buy it here, and it is readily available.

**3.** You can come to IITB at any time. The main gate will remain open 24\*7. But try to avoid late night arrivals as you may find it difficult to reach IITB as at that time auto rickshaw or cab facilities will not be frequently available. Newcomers while coming to IITB, show the security staff the intimation mail or screenshot or print out of the same.



## **Reaching IIT Bombay**

IIT Bombay is located at Powai, which is in the North-Eastern part of Mumbai. One can travel by auto-rickshaws or taxis to reach IIT from the nearest stations. The nearest stations for Central Railway are KanjurMarg or Vikhroli. The nearest station for Western Railway is Andheri. International flights land at Sahar Airport which is about 7kms from IIT. The Domestic Airport SantaCruz is about 11 kms from IIT Bombay, and auto rickshaws/prepaid cabs are readily available from there for IIT.

### **From the Airport:**

Those travelling by air can take **taxis/auto-rickshaws** from the domestic **(40-60 min travel time)/international (20-40 min travel time) airport** to reach IIT Bombay.

### **From Central Railway:**

Suppose travelling by the central railway line [**with tickets to Kalyan/Thane/Kurla/Dadar/CST**], get down at **Kalyan/Thane/Dadar** and take a local train to **Kanjur Marg/Vikhroli**, which are **the nearest stations to IIT Bombay**. Come out through the western-side gate and **take a bus or auto-rickshaw to IIT main gate**.

### **From Western Railway:**

If you are coming by the western railway line, **get down, preferably at Borivali/Bandra/Andheri**. From **Bandra (local railway station) west**, you can **take the 422 bus to IIT Bombay's main gate**. From **Borivali East and Andheri East**, several buses come to the **IIT main gate**. Alternatively, you can take a **three-wheeler or taxi from these stations**. If you get down at **Mumbai Central**, then travel in a **reverse direction to Dadar (Western Railway)**. From **Dadar Western Railway**, you will have to **change to Dadar Central Railway**. To reach IIT Bombay from **Dadar Central Railway**, follow the instructions given under **Central Railway**.

### **Reaching IIT Bombay Guest House (Van Vihar/Jal Vihar):**

There are **three gates to IIT Bombay**. It is advised to enter **through the main gate**. If you are coming by an auto-rickshaw/taxi, enquire from the security at the main gate for the directions to **IIT B Guest House (Van Vihar/Jal Vihar Guest House)**.



## Reaching IITB Hostels:

There are three gates to IIT Bombay. It is advised to enter through the main gate. If you are coming by an auto-rickshaw/taxi, enquire from the security at the main gate for directions.



SEARCH BY GROUPS AND SERIAL NUMBERS	
<b>Academic, Non academic and Lab's</b>	
Aerospace Engg	D5... 1
Bio-diesel Lab	B4... 4
Bio-science & Bio-energy 1	C4... 5
Bio-science & Bio-energy 2	C5... 6
Bio-science & Bio-energy 3	B4... 7
Central Library	B3... 12
Centrifugal Lab	B4... 14
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KRESIT Building	D3... 18
Lecture Hall Complex 1	D4... 47
Lecture Hall Complex-2	D4... 48
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Mathematics	B4... 53
Mechanical Engg.	C4... 54
Medical Store	E5... 55
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Micro Fluidics Lab	B5... 57
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Ananta	A4... 2
Director's Bungalow	E3... 24
DRDO	A3... 25
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Guest House/ Vanvihar	D3... 34
Staff Hostel	C3... 76
Tansa House (Proj. Staff)	B2... 84
Vihar House	B5... 90
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<b>Auditoriums and Halls</b>	
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G Gaitonde Lecture Hall	C4... 32
Lecture Hall Complex-1	D4... 47
Lecture Hall Complex-2	D4... 48
PC Saxena Auditorium (LT)	C4... 64
Seminar Hall	C4... 72
Victor Menezes CC	C4... 89
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<b>Banks and ATMs</b>	
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Main Gate	F3... 51
Market Gate	E5... 52
Medical Store	E5... 55
NCC Office	B3... 60
Post Office	E5... 66
Sarovar Ujayan	F2... 71
Temple (Padmavati Devi)	E1... 85
<b>Map Design</b> Shishir Bhagade, IDC, IITB	
<b>Project Guide</b> Prof. Mandar Rane, IDC, IITB	

Link to this map:

[http://www.iitb.ac.in/sites/default/files/article/images/IITB-Map---2D\\_E\\_NG-PRINT.jpg](http://www.iitb.ac.in/sites/default/files/article/images/IITB-Map---2D_E_NG-PRINT.jpg)



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