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Server Room; 3710
Sr. Technical Superintendent
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4529
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AMTF Lab; 3936
Sr. Technical Superintendent
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Mechatronics Lab; 3711
Technical Superintendent
vadukutvinoy@iitb.ac.in
Technical Superintendent, AMTF Lab
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3703
Technical Superintendent, Machine Tools Lab
30003750@iitb.ac.in
3749
Junior Mechanic, Machine Tools Laboratory
10001858@iitb.ac.in
4518
Technical Superintendent
kahalekar.sunil@iitb.ac.in
Design & Making Lab; 6540
Multi Skill Assistant
kharpadeashok@gmail.com
4533
Multi Skilled Assistant
Design & Making Lab; 6540
System Administrator
veena_vijayan[AT]iitb.ac.in
Server Room: 3710
Sr. Technical Superintendent
ashwini_85@iitb.ac.in
CAM Lab; 3702
Technical Superintendent, Tinkerer’s lab
sandeepr@iitb.ac.in
3763
Technical Superintendent
prabhakaras@iitb.ac.in
Cryogenics Lab; 3719
Technical Superintendent
praveentopagi@iitb.ac.in
Cryogenics Lab; 3719
Senior Mechanic
spowar@iitb.ac.in
3746
Technical Superintendent ; Nuclear Lab(THTF)
savita.adsul@iitb.ac.in
Mechanic
Fluid Power Lab; 3762
Technical Superintendent (P)
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3746
Mechanic
sgg1400@iitb.ac.in
3746
Senior Mechanic
smestry@iitb.ac.in
Welding Section; 3744
Senior Mechanic
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3746
Senior Technical Superintendent(P)
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Welding Section; 3744
Senior Mechanic
omkar123@iitb.ac.in
Welding Section; 3744
Senior Mechanic
geeta11@iitb.ac.in
3746
Senior Mechanic
Welding Section; 3744
Technical Officer (Scale III) - A
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Welding Section; 3744
Technical Superintendent
gajendraverma@iitb.ac.in
Fluid Power Lab; 3762
The Department of Mechanical Engineering is one of the largest departments in the Institute, with 62 full-time faculty members and over 50 full-time administrative and technical support staff.
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Name	Post & Lab	Office	Email	Extension Number
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Mr. S N Jadhav	Sr. Technical Superintendent		shanijadhav@iitb.ac.in	4529
Mr. K. T. Benny	Technical Officer(scale I) - A		ktbenny@iitb.ac.in	AMTF Lab; 3936
Mr. Tejas Vedak	Sr. Technical Superintendent		tejas.vedak@iitb.ac.in	Mechatronics Lab; 3711
Vinoy Varghese Vadukut	Technical Superintendent		vadukutvinoy@iitb.ac.in	
Mr. Parvej Raut	Technical Superintendent, AMTF Lab		parvejraut@iitb.ac.in	3703
Naveen Dasari	Technical Superintendent, Machine Tools Lab		30003750@iitb.ac.in	3749
Mr. Arun Vasudevan Nair	Junior Mechanic, Machine Tools Laboratory		10001858@iitb.ac.in	4518
Mr. Sunil Kahalekar	Technical Superintendent		kahalekar.sunil@iitb.ac.in	Design & Making Lab; 6540
Mr. Ashok Kharpade	Multi Skill Assistant		kharpadeashok@gmail.com	4533
Mr. Prakash Rokade	Multi Skilled Assistant			Design & Making Lab; 6540
Ms. Veena Vijayan	System Administrator		veena_vijayan[AT]iitb.ac.in	Server Room: 3710
Ms. Ashiwni Patil	Sr. Technical Superintendent		ashwini_85@iitb.ac.in	CAM Lab; 3702

Mr. S. G. Raikar Technical Superintendent, Tinkerer's lab sandeepr@iitb.ac.in 3763
Mr. Prabhakar Technical Superintendent prabhakaras@iitb.ac.in Cryogenics Lab; 3719
Mr. Praveen Topagi Technical Superintendent praveentopagi@iitb.ac.in Cryogenics Lab; 3719
Mr. S. M. Pawar Senior Mechanic spowar@iitb.ac.in 3746
Ms. Savita Adsul Technical Superintendent ; Nuclear Lab(THTF) savita.adsul@iitb.ac.in
Mr. Santosh Ahadi Mechanic Fluid Power Lab; 3762
Mr. S. H. Bhosale Technical Superintendent (P) sbhosale@iitb.ac.in 3746
Mr. S. G. Gumgaonkar Mechanic sgg1400@iitb.ac.in 3746
Mr. S. G. Mestry Senior Mechanic smestry@iitb.ac.in Welding Section; 3744
Mr. B. G. Pawar Senior Mechanic bgpawar@iitb.ac.in 3746
Mr. S. N. Dasari Senior Technical Superintendent(P) dasari@iitb.ac.in Welding Section; 3744
Mr. P. G. Prabhavale Senior Mechanic omkar123@iitb.ac.in Welding Section; 3744
Mr. V. P. Bhalerao Senior Mechanic geeta11@iitb.ac.in 3746
Mr. R. P. Tapase Senior Mechanic Welding Section; 3744
Mr. Y S Sonawane Technical Officer (Scale III) - A yogeshrsony@iitb.ac.in Welding Section; 3744
Mr. Gajendra Kumar Technical Superintendent gajendraverma@iitb.ac.in Fluid Power Lab; 3762
Mr. Sharath Raj B.L Junior Technician 10002114@iitb.ac.in UPMC(Machine Tools Laboratary); 3749

The department provides not only a rich learning environment for students but also solutions for challenging industrial problems and for social cause via rigorous methodology of research and development. It is reflected in our clientele and list of partners. The department is involved in projects intended for development of materials and products, understanding mechanical behavior of materials of strategic interest, investigation of durability of materials and structures, developing low-cost medical devices, understanding thermal-fluid phenomena for nuclear reactor safety, design and development of cryo coolers, understanding fluid flow and other material phenomena spanning over interatomic interactions to occurrence of cyclones, to name a few. Our collaborators are national laboratories, national and international companies, NGOs and hospitals. Various modes of collaborations are available. We encourage multi-institutional collaborations.
For more information please visit :rnd.iitb.ac.in
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Announcements for PhD Admission (Spring 2024-25)
Department Eligibility Criteria
Opportunity for foreign PhD students
Ph.D. students are admitted twice a year, in July and January. Please

visitwww.iitb.ac.in/newacadhome/phd.jsp, where among other useful information, an Information Brochure is available for complete details on eligibility criteria and requirements.
Please visitwww.gate.iitb.ac.infor complete information about the GATE examination.
A listing of the various categories under which students can take admission for the Ph. D. Program in Mechanical Engineering, their brief relevant description and admission procedure are outlined in the table below.
Financial assistance provided by the Institute.
Requires eight hours of Teaching Assitant work, assigned by the Department, to be done per week. For candidates with B. E./B.Tech. as the qualifying degree (that is, for the candidates without master's degree), valid GATE score of at least 660 is required.
For IIT B.Tech. Graduates with CPI >8.0, the requirement of GATE score is waived.
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Table:

Category	Relevant Description
Teaching Assistantship (TA)	Financial assistance provided by the Institute.Requires eight hours of Teaching Assitant work, assigned by the Department, to be done per week. For candidates with B. E./B.Tech. as the qualifying degree (that is, for the candidates without master's degree), valid GATE score of at least 660 is required.For IIT B.Tech. Graduates with CPI >8.0, the requirement of GATE score is waived.
Research Assistantship (RA)	Financial assistance provided by the Institute. Requires twenty hours of work per week to be spent on in undergraduate laboratory and other administrative work assigned by the Department. Only one RA category position per academic year is available.For candidates with B. E./B.Tech. as the qualifying degree (that is, for the candidates without master's degree), valid GATE score of at least 660 is required.For IIT B.Tech. Graduates with CPI >8.0, the requirement of GATE score is waived.
Teaching Assistantship thrugh Project (TAP)	Financial assistance provided from a sponsored research project being done by a faculty member of the Department.The Ph. D. thesis is required to be completed under the supervision of the faculty members whose sponsored project provides the financial assistance.Depending on the requirements, the number of TAP positions may vary from year to year, and will be announced a few days prior to the day of the Written Test and Interview.
Sponsored Candidates (SW)	Working professionals from reputed Industrial or Research Organisations/Academic Institutions can apply under this category. There is no financial assistance and the candidates are expected to work for at least three years on a full-time basis at IIT Bombay.
Project Staff (PS)	This category is only for those who are employed on Sponsored Research Projects at IIT Bombay. The candidates must have (i) valid GATE score and six months of service in the sponsored research project OR (ii) total two year of experience if the qualifying degree is B. E./B.Tech., out of which at least six months of service should be in the sponsored research project of IIT Bombay where the person has been employed.Financial assistance provided from a sponsored research project being done by a faculty member of the Department.The Ph.D. thesis is required to be completed under the supervision of the faculty members whose sponsored project provides the financial assistance.
External (EX)	Working professionals from reputed Industrial or Research Organisations can apply under this category.This is a part-time Ph.D. category. There is no financial assitance and the candidates are expected to be at IIT Bombay to complete their course credit requirements, following which they can work

on the Ph.D. thesis from their parent organisation. In addition to a supervisor from IIT Bombay, an external supervisor from the parent organisation is required.
College Teacher (CT) Teachers from various colleges/universities/institutes can apply under this category.This is a part-time Ph.D. category. There is no financial assitance and the candidates are expected to be at IIT Bombay to complete their course credit requirements, following which they can work on the Ph.D. thesis from their parent institution.
Institute Staff (IS) This category is only for those who are employed as Institute Staff at IIT Bombay.

Postdoctoral Research Fellow
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Table:

Name	Post & Lab Office
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Dr. Shridhar Sahoo	Postdoctoral Research Fellow
Dr. Arijit Sinhababu	Postdoctoral Research Fellow
Dr. Goli Sandeep	Postdoctoral Research Fellow
Dr. Manish Kumar Thakur	Postdoctoral Research Fellow
Dr. Hardik Kagdada	Postdoctoral Research Fellow

Dr. Botcha Appala Naidu Postdoctoral Research Fellow
Dr. Ramver Postdoctoral Research Fellow
Dr. Sourabh Jogee Postdoctoral Research Fellow
Dr. Sanghamitra Das Postdoctoral Research Fellow
Dr. Amit Kumar Singh Postdoctoral Research Fellow
Dr. Debjit Misra Postdoctoral Research Fellow
Dr. Sagram Kumar Samal Postdoctoral Research Fellow
Dr. Suman Saha Post Doctoral Research Fellow
Dr. Chandra Shekhar Maurya Post Doctoral Research Fellow
Dr. Jaya Krishna Postdoctoral Research Fellow
Dr. Shyamal Bhunia Postdoctoral Research Fellow
Dr. Midhun V C Postdoctoral Research Fellow
Dr. Parampreet Singh Jassal Postdoctoral Research Fellow
Dr. Ketankumar J. Yogi Postdoctoral Research Fellow
Dr. Ankit Kumar Pandey Postdoctoral Research Fellow
Dr. Anuj Kumar Postdoctoral Research Fellow
Dr. Sachin Tom Postdoctoral Research Fellow

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The requested URL "https://www.me.iitb.ac.in/main.js" was not found on this server.

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HOD's message

List of Candidates Shortlisted for Interview (Online) on May 13, 2024
M.Tech. students are admitted once a year, in July. Please visithere, where among other useful information, an Information Brochure is available for complete details on eligibility criteria and requirements.
Please visitwww.gate.iitb.ac.infor complete information about the GATE examination.
A listing of the various categories under which students can take admission for the M.Tech. Program in Mechanical Engineering, and their respective duration, brief relevant description and admission procedure are outlined in the table below.
Financial assistance provided by the Institute.
Requires eight hours of Teaching Assitant work, assigned by the Department, to be done per week.
Financial assistance provided by the Institute.
Requires eight hours of Teaching Assitant work, assigned by the Department, to be done per week.
IIT B.Tech. Graduates with CPI > 8.0 can apply under this category.
Working professionals from reputed Industrial or Research Organisations/Academic Institutions can apply under this category.
The candidates should have a valid GATE score OR two years of relevant professional experience after the quaifying degree (B.E./B.Tech.)
Financial assistance provided by the Institute.
Requires twenty hours of work per week to be spent in an undergraduate laboratory and other administrative work assigned by the Department.
Depending on the requirements, the number of RA positions may vary from year to year, and will be announced a few days prior to the day of the written test.
Admission based on GATE score.
For IIT B.Tech. Graduates with CPI >8.0, the admission is based only on the written test administered by the Department.
Financial assistance provided from a sponsored research project being done by a faculty member of the Department.
Requires twenty hours of work per week to be spent on the sponsored research project. The M.Tech. Project is required to be done in a similar area under the supervision of the faculty members whose sponsored project provides the financial assistance.
Depending on the requirements, the number of RAP positions may vary from year to year, and will be announced a few days prior to the day of the written test and interview (if applicable).
This category is only for those who are employed on Sponsored Research Projects at IIT Bombay.
The candidates must have (i) valid GATE score + six months of service in the sponsored research project OR (ii) total two year of experience after the qualifying degree (B.E./B.Tech.) out of which at least six months of service should be in the sponsored research project of IIT Bombay where the person has been employed.
Financial assistance provided from a sponsored research project being done by a faculty member of the Department.
Requires twenty hours of work per week to be spent on the sponsored research project. The M.Tech. Project is required to be done in a similar area under the supervision of the faculty members whose sponsored project provides the financial assistance.
The Department of Mechanical Engineering is one of the largest departments in the Institute, with 62 full-time faculty members and over 50 full-time administrative and technical support staff.
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Table:

Category	Duration	Relevant Description	Admission Procedure
Teaching Assistantship (TA)	Two years	Financial assistance provided by the Institute.Requires eight hours of Teaching Assitant work, assigned by the Department, to be done per week.	Admission based on GATE score
IIT B.Tech. (IB)	Two years	Financial assistance provided by the Institute.Requires eight hours of Teaching Assitant work, assigned by the Department, to be done per week.IIT B.Tech. Graduates with CPI > 8.0 can apply under this category.	Admission based on a written test administered by the Department.
Sponsored Candidates (SW)	Two/Three years	Working professionals from reputed Industrial or Research Organisations/Academic Institutions can apply under this category.The candidates should have a valid GATE score OR two years of relevant professional experience after the quaifying degree (B.E./B.Tech.)	Admission based on a written test administered by the Department.
Research Assistantship (RA)	Three years	Financial assistance provided by the Institute.Requires twenty hours of work per week to be spent in an undergraduate laboratory and other administrative work assigned by the Department.Depending on the requirements, the number of RA positions may vary from year to year, and will be announced a few days prior to the day of the written test.	Admission based on GATE score.For IIT B.Tech. Graduates with CPI >8.0, the admission is based only on the written test administered by the Department.
Research Assistantship through Project (RAP)	Three years	Financial assistance provided from a sponsored research project being done by a faculty member of the Department.Requires twenty hours of work per week to be spent on the sponsored research project. The M.Tech. Project is required to be done in a similar area under the supervision of the faculty members whose sponsored project provides the financial assistance.Depending on the requirements, the number of RAP positions may vary from year to year, and will be announced a few days prior to the day of the written test and interview (if applicable).	Admission based on GATE score and a written test or a short technical interview conducted by the concerned faculty member.
Project Staff (PS)	Three years	This category is only for those who are employed on Sponsored Research Projects at IIT Bombay.The candidates must have (i) valid GATE score + six months of service in the sponsored research project OR (ii) total two year of experience after the qualifying degree (B.E./B.Tech.) out of which at least six months of service should be in the sponsored research project of IIT Bombay where the person has been employed.Financial assistance provided from a sponsored research project being done by a faculty member of the Department.Requires twenty hours of work per week to be spent on the sponsored research project. The M.Tech. Project is required to be done in a similar area under the supervision of the faculty members whose sponsored project provides the financial assistance.	Admission based on a written test administered by the Department.
Institute Staff (IS)	Three years	This category is only for those who are employed as Institute Staff at IIT Bombay.	Admission based on a written test administered by the Department.

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UG ORIENTATION SCHEDULE for New Entrants(2023-2024)
Updated BTech Curriculum
Updated DD Curriculum
Procedure for FinalDefence
Downloadable Forms
All Undergraduate students, for both the four-year B. Tech. and the five year B. Tech. + M. Tech. (Dual Degree) programs, are admitted once a year, in July. The admission is based on their rank in the Joint Entrance Examination (JEE).
Please visithttps://www.jeeadv.ac.in/for complete information about JEE.
The Department admits students in the Dual Degree specialization of Computer Integrated Manufacturing directly on the basis of their JEE rank.
The specializations of Thermal and Fluids Engineering, and Computer Aided Design and Automation do not admit students in the basis of the JEE rank. Existing undergraduate students of Mechanical Engineering, after having spent some time in their respective program, can opt for these two specializations following an application process administered by the Department. This conversion is expected to be based on the interest generated by the students in the respective specializations, after they get exposed to the various areas of Mechanical Engineering in the first two-three years of study.
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In each of the degree programs, the curriculum consists of completion of prescribed coursework and project/thesis work, as applicable. The Department offers a variety of courses, both in the classical and emerging areas of Mechanical Engineering, with an objective to expose the students to the various facets of Mechanical Engineering. The courses are designed to be rigorous and strive for student learning through various activities such as tutorials, assignments, projects and examinations. The project/thesis work is assigned on an individual basis, even at the B.Tech. level, and the student is expected to work on a problem of interest over a period of time. The project/thesis work is research and development oriented, and typically involves analysis/design of a real-life problem of interest. The project/thesis work may result in publishing of papers in journals/conferences or a patent.
NPTEL Course equivalence form
Student Application Form
UG ORIENTATION SCHEDULE for New Entrants(2023-2024)
Thefour-year B.Tech. programprepares students in all fundamental aspects of Mechanical Engineering, with an appropriate mix of compulsory theory and laboratory courses, and electives. The primary objective of the B.Tech. program is to train students for various industry opportunities that require background in basic Mechanical Engineering. Additionally, the design of the B.Tech. program ensures adequate preparation for taking up higher-level academic programs at the master’s and doctorate levels.
UG curriculum for 2022 BTech batchhere.
Modified curricula for BTech and DD 2017 and 2018 admit batcheshere.
Complete details of B.Tech. curriculum are availablehere.
Thefive-year B.Tech. + M.Tech. (Dual Degree) programprovides an opportunity for more in-depth exposure to Mechanical Engineering by spendng an additional year beyond the B.Tech. program. This is achieved through additional advanced compulsory courses, electives and a fourteen-months long Dual Degree Project in the final phase of the program. The Dual Degree Project is to be worked on an

individual basis, and is typically a research and development oriented project in an area relevant to Mechanical Engineering. The Dual Degree Program is designed to provide an exposure to real-life problems and the their analysis procedures. The Department offers three Dual Degree specializations:Thermal and Fluids Engineering, Computer Aided Design and Automation, and Computer Integrated Manufacturing.
Complete details of DD curriculum are availablehere.
Complete details of the Dual Degree curriculum for the specialization of Thermal and Fluids Engineering are availablehere.
Complete details of the Dual Degree curriculum for the specialization of Computer Aided Design and Automation Engineering are availablehere.
Complete details of the Dual Degree curriculum for the specialization of Computer Integrated Manufacturing are availablehere.
Student Application Form
The Ph.D. programoffers an opportunity for students with previous bachelor's or master's degree to work on a specific topic to significant depth. The Ph.D. program requires a certain amount of coursework in the initial stages, followed by passing a Qualifying Examination administered by the Department. Beyond a certain minimum number of courses, the thesis guide(s) may prescribe additional course(s) to be taken, depending on the requirement of the thesis work. After successful completion of the coursework and the Qualifying Examination, a Ph.D. student is confirmed in the program.The relevant information about the Qualifying Examination(Applicable from July-2022) is available here.
The next phase of the Ph.D. program involves working on the thesis topic, and is typically characterized by publishing research papers in appropriate journals and conferences. In some cases, the Ph.D. work may result in a patent based on a system designed and demonstrated during the Ph.D. work. A Ph.D. student is expected to broadly work in one of the three specializations: Thermal and Fluids Engineering, Design Engineering, and Manufacturing Engineering, though the nature of the thesis work may often require the work to be on interdisciplinary nature, not necessarily restricted to the classical Mechanical Engineering areas.
Syllabus and Sample papers for PhD Qualifying Examination can be foundhere.
Additional TA duty form
IRCC Financial Support Before Submission of Pre Synopsis Report.
Downloadable Forms
RPC approval form
PhD Credit Seminar Form
RA form after thesis submission
Approval Non-Air India flight (Defense)
Student Application Form
The two-year/three-year M.Tech. programprovides an opportunity to students who previously have a bachelor’s degree and would like to specialize in an area relevant to Mechanical Engineering. The M.Tech. program contains advanced compulsory courses, electives and a fourteen-months long M.Tech. Project in the final phase of the program. The M.Tech. Project is to be worked on an individual basis, and is typically research and development oriented. The M.Tech. program is designed to provide an exposure to real-life problems and their analysis procedures. The Department offers three M.Tech. specializations:Thermal and Fluids Engineering, Design Engineering, andManufacturing Engineering.
Complete details of the curriculum for the specialization of Thermal and Fluids Engineering are availablehere.
Complete details of the curriculum for the specialization of Design Engineering are availablehere.
Complete details of the curriculum for the specialization of Manufacturing Engineering are availablehere.
Complete details of the curriculum for the specialization of MMM are availablehere.
NPTEL Course equivalence form
Important notice to new M.Tech students
Procedure for Final Defence
List of external examiners for DD and M.Tech
Downloadable Forms
MTech Credit Seminar Form
MTech Minor for TFE,DES,MFG

The Department is actively involved in all outreach programs that IIT Bombay offers. In this context,
(a) working professionals looking for enhancing their expertise and skills,
(b) college teachers who wish to pursue Master's and Ph.D. degree programs while continuing in their jobs, and
(c) those who are interested in distance learning opportunities
can find all the relevant information from the IIT Bombay Continuing Education Program (CEP)/Quality Improvement Program (QIP)/Center for Distance Engineering Education Program (CDEEP).
Read more
https://portal.iitb.ac.in/asc/Courses
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Mr. Nishikant Meshram	Junior Administrative Assistant	ME Office	nishikant.meshram at iitb . ac . in	7503
Mr. Sachin B. Kasar	Junior Administrative Assistant		sachinknk@iitb.ac.in	3760
Anamika Bharankar	Junior Administrative Assistant	ME Office	anamikabharankar@iitb.ac.in	7501
Ms. Mukta Magar				
Mr. Aniket Kambale	ME Office			3761

Wave and Vibration Engineering (WaVE) Lab
Vibrational Spectroscopy Laboratory
Welding Laboratory
Solidification Laboratory
Rapid Manufacturing Laboratory
National Centre for Aerospace Innovation and Research

Microstructural Mechanics and Micro-forming Laboratory
Metal Forming Laboratory
Machine Tools Laboratory
ICME and Materials Genome Lab
Electrochemical Microfabrication Lab
Computer Aided Manufacturing Laboratory
Central Workshop
Biomedical Engineering and Technology (Incubation) Center
Advanced Mechanical Testing Facility
Vibration and Acoustics Laboratory
Textile Machines Laboratory
Suman Mashruwala Advanced Microengineering Laboratory
Solid Mechanics Laboratory
Robotics Laboratory
Mechanics of Materials Laboratory
Computational Solid Mechanics Laboratory
Acoustics and Hearing Laboratory
Water Tunnel and PIV Facility
Thermal Science Laboratory
Thermal Hydraulics Test Facility
Thermal Energy Materials and Systems Laboratory
Scalable Algorithms and Numerical Methods in Computing Laboratory
Refrigeration, Air Conditioning and Cryogenics Laboratory
Optical Instrumentation Laboratory
Microfluidics Laboratory
Internal Combustion Engines and Combustion Laboratory
Interfacial Flows Laboratory
Heat Pump Laboratory
Geophysical Fluid Dynamics Laboratory
Computational Fluid Dynamics Laboratory
The Department of Mechanical Engineering is one of the largest departments in the Institute, with 62 full-time faculty members and over 50 full-time administrative and technical support staff.
Department of Mechanical Engineering Indian Institute of Technology Bombay, Powai, Mumbai 400 076, Maharashtra, India.
Phone: (+91) 22 - 2576 7501/02/03
Fax: (+91) 22 - 2572 6875
office.me[at]iitb.ac.in
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Table:

Wave and Vibration Engineering (WaVE) Lab
Vibrational Spectroscopy Laboratory
Welding Laboratory
Solidification Laboratory
Rapid Manufacturing Laboratory
National Centre for Aerospace Innovation and Research
Microstructural Mechanics and Micro-forming Laboratory
Metal Forming Laboratory
Machine Tools Laboratory
ICME and Materials Genome Lab
Electrochemical Microfabrication Lab

Computer Aided Manufacturing Laboratory
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Vibration and Acoustics Laboratory
Textile Machines Laboratory
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Microfluidics Laboratory
Internal Combustion Engines and Combustion Laboratory
Interfacial Flows Laboratory
Heat Pump Laboratory
Geophysical Fluid Dynamics Laboratory
Computational Fluid Dynamics Laboratory

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You can give back to your department and institute in a variety of ways. One primary way to contribute is by sharing your knowledge/expertise from the industry or academia with the current students and faculty members. This will go a long way in enabling the institute to pursue its goal of maintaining high standards in teaching and research. You can also support IIT Bombay by funding research, hosting faculty awards and faculty chairs, student awards and fellowships.
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For more information on how your engagement with the institute can be meaningful, please visithttp://www.iitb.ac.in/alumni/en.
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Mechanical Engineering Department (MED) was founded along with that of the IIT Bombay in 1958, starting with both BTech and MTech. Programmes. The department's mission is to strive for excellence in teaching and research in the various areas of mechanical science and engineering. It is one of the largest departments in the institute, with more than 1500 students, 62 full-time faculty members, and over 50 full-time administrative and technical support staff.The department offers Bachelor of Technology (B.Tech), B.Tech + M.Tech (Dual Degree), M.Tech, and Ph.D. degree programs in Mechanical Engineering for 802, 135, 209, and 397 students, respectively.
The department has over 30 teaching and research laboratories, equipped with some of the state-of-the-art scientific instruments and systems.The research in the department is regularly disseminated through journal publications, conference presentations, book chapters, and patents. Many faculty members have received recognition for their outstanding research work via awards, editorship of international journals, and fellows of science/engineering academy. Faculty members have also excelled in teaching and received Departmental as well as Institute Teaching awards.
Academically, MED@IITB is evolving with the adoption of interdisciplinary minor and dual-degree programs for BTech. students; and also for MTech. students.Research in ME@IITB is evolving with faculty collaborations—leading to interdisciplinary research groups and adoption of new ideas and tools such as Artificial Intelligence, Machine Learning, Data Science, and Sensor Technology.

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Kinematics of Mechanisms
Manufacturing
Welding Technology
Heat Transfer
Click for details
Heat Transfer
Heat Transfer, Solar Energy
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Table:

Faculty	Honorary Position	Phone No	Email	Research Interests
Prof. C. Amarnath	Professor Emeritus	(+91) 22 - 2576 7501/02/03	office.me@[figure this out if you are not a bot]	Kinematics of Mechanisms
Prof. A. Subash Babu	Professor Emeritus	(+91) 22 - 2576 7501/02/03	subash 'at' [figure this out if you are not a bot]	Manufacturing
Prof. M.S.C.Bose	Professor Emeritus	(+91) 22 - 2576 7501/02/03	office.me@[figure this out if you are not a bot]	Welding Technology
Prof. A. W. Date	Professor Emeritus	(+91) 22 - 2576 7501/02/03	office.me@[figure this out if you are not a bot]	Heat TransferClick for details
Prof. Uday N. Gaitonde	Professor Emeritus	(+91)-22-25767508	gaitonde 'at' [figure this out if you are not a bot]	Heat Transfer
Prof. S. P. Sukhatme	Professor Emeritus, Recipient of Life Time Achievement Award (2001), IIT Bombay	(+91)-22-25767502/03	sukhatme@[figure this out if you are not a bot]	Heat Transfer, Solar Energy

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Turbulence, PIV, Heat Transfer, Rarefied Gas Flows, Microfluidics
Materials Informatics, Crystal Plasticity, Multiscale Computational Mechanics of Materials, Machi
Refrigeration,Cryogenic Engineering,Cryocoolers, Cryogenic Heat Exchangers,
PIV, Flow and turbulence measurement using optical means., Experimental fluid
Non-Fourier Heat Transfer (in nanomaterials and from nano heat sources such as transistors)
Elasticity, Analytical and numerical methods, Contact Mechanics, Fracture mechanics
Particulate Characterization and Emission Control, Heat transfer in nanofluids,
Conic (mixed) integer programming, Linear and Non Linear Discrete Optimization, Polyhedral Combin
Droplets, Interfaces, Fluid Structure Interaction, CFD
TFE, Turbulence, Computational Fluid Dynamics, LES/DNS for complex transitional and turbulent flo
Combustion Visualization and Optical Diagnostics, Combustion of Energetic Materials (Propellants
Metal Forming Processes, Formability, Shopfloor Metallic waste processing, Powder Metallurgy, Met
Joining, Additive Manufacturing, Numerical Modeling

MEMS, Microfabrication, Microsystems Packaging, 3D Interconnections, Non-conventional Machining
Robotics, Mechatronics, multi-scale manufacturing using fluid instabilities, 3D Microprinting, Dy
Metamaterials, Waves and Vibrations, Applied Mechanics
Shock- Material Interactions, Metal Foams, High temperature materials, Fatigue and Fracture in ma
Fluid Mechanics, Numerical Methods, Computational Fluid Dynamics, Geophysical Fluid Dynamics, Mul
Kinematics and robotics, AI/ML for industrial problems, impact resistant structures
Robotics and controls, Human-robot interaction, Assistive devices for rehabilitation.
Designing next-generation materials for energy applications.
Microfabrication, Multifunctional Coatings, Experimental Mechanics, Fracture Mechanics, Dynamic D
Ultra precision machining (UPM) processes, Modeling and machining of 'difficult to machine' mater
Computational and Data methods, Solidification, Microstructures, Transport phenomena X-ray Imagin
Dynamics, vibrations and control, Nano- and micro-scale devices, Electric and Hybrid Electric Veh
Rapid Manufacturing, CNC Technology & Automation, Computer Graphics for CAM Applications, Rot
Heat Transfer, Thermal Management of Electronics, Non-traditional Thermal Desalination
Reliability Engineering, Maintenance Planning, Quality Engineering, Digital Twins for Industry 4.
Computational Mechanics, Applied Mechanics, Finite Element Method, Boundary Element Method, Wave
Thermal and fluid engineering
TFE, Combustion Visualization and Optical Diagnostics, Computational fluid dynamics and heat tran
Design Engineering
Laser Materials Processing, Ultra-short Pulsed Laser Ablation, Electrochemical Machining, Electri
Metal-forming, Microstrure, Materials Model, Fatigue & Fracture, Residual stress, Thermo-mech
Focused Ion Beam (FIB) and Laser based micro/nano-fabrication, Plasmonics for sensing and beam ma
Micromanufacturing, Surface Engineering, Additive Manufacturing, Sustainability
Heat Transfer, Computational Fluid Dynamics, Experimental fluid dynamics and heat transfer, Flow
CAD/CAM/CIM, Geometric reasoning and Feature based modeling, AI/ML applications in Design / Manuf
Stability and Bifurcation Theory, Continuum Mechanics, Lithium-ion Batteries, Multiphysics proble
Solid mechanics, nonlinear dynamics, engineering optimization
Fluid Mechanics, Heat Transfer, Flowmetering, Hydrokinetic turbines and wind turbines, Impinging
Compressible Fluid Dynamics and Shock Waves, High-Knudsen Number High-Speed Internal and
External
Acoustics, Vibrations, Hearing, Porous materials, Multi-functional materials
Energy Conservation, HVAC&R and Alternate Energy Resouces
Thermofluids engineering, Magnetohydrodynamics (MHD) and its applications (e.g.
Heat Transfer, Computational Fluid Dynamics, Renewable energy and energy storage, Multiphase flow
Robotics, Mechatronics, Dynamics, Control
Computational Mechanics (Finite elements, stress & vibration analysis)

Computational Fluid Dynamics, Computational Multi-Fluid Dynamics, and Computational Fluid Structu
Computational Fluid Dynamics, Turbulent Combustion, Engine Combustion, LES/DNS of complex turbule
Solid State Joining, Additive Manufacturing, Sustainable Manufacturing, Friction Welding, Wire Ar
Continuum Mechanics, Multiscale methods, Statistical Mechanics, Biomechanics, Heat conduction, Tr
High-speed micromachining, Flexible reconfigurable fiber laser based materials processing, Novel
Additive Manufacturing, BioManufacturing, BioMaterials, Polymers, ceramics and Metal foams, CAD/C
Heat Transfer, Experimental fluid dynamics and heat transfer, Two phase flow and heat transfer, N
Heat and Mass Transfer, Two phase flows, Bioheat transfer, Optical techniques for whole field mea
Control Systems Design, Mechatronics
Fracture mechanics, Finite element modeling, Computational Solid Mechanics, Mechanical Behaviour
Internet of Things - Product Development, Smart Manufacturing, "Big Data" in Manufacturing, Appli
Thermal and Fluid Engineering
Vibration, Machinery diagnostics, Guided wave-based SHM, Fibre-reinforced composites
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Table:

Faculty Designation Location Phone No Research Interests
Prof. AmitAgrawal Professor F17, ME Department (+91)-22-25767516 Turbulence, PIV, Heat Transfer, Rarefied Gas Flows, Microfluidics
Prof. AlankarAlankar Professor S 02, ME Department (+91)-22-25769356 Materials Informatics, Crystal Plasticity, Multiscale Computational Mechanics of Materials, Machi
Prof. MilindAtrey Professor F 09, ME Department (+91)-22-25767522 Refrigeration,Cryogenic Engineering,Cryocoolers, Cryogenic Heat Exchangers,
Prof. SridharBalasubramanian Professor S 09, ME Department +91)-22-25767541 PIV, Flow and turbulence measurement using optical means., Experimental fluid
Prof. DipanshuBansal Associate Professor F 40, ME Department (+91)-22-25767508 Non-Fourier Heat Transfer (in nanomaterials and from nano heat sources such as transistors)
Prof. Tanmay K.Bhandakkar Professor F-34, ME Department (+91)-22-25767537 Elasticity, Analytical and numerical methods, Contact Mechanics, Fracture mechanics
Prof. U. V.Bhandarkar Professor F 42, ME Department (+91)-22-25767594 Particulate Characterization and Emission Control, Heat transfer in nanofluids,
Prof. AvinashBhardwaj Assistant Professor S40, ME Department (+91)-22-25767515 Conic (mixed) integer programming, Linear and Non Linear Discrete Optimization, Polyhedral Combin
Prof. RajneeshBhardwaj Professor S 36, ME Department (+91)-22-25767534 Droplets, Interfaces, Fluid Structure Interaction, CFD
Prof. Abhilash J.Chandy Professor S37, ME Department (+91)-22-25769352 TFE, Turbulence, Computational Fluid Dynamics, LES/DNS for complex transitional and turbulent flo
Prof. ArindrajitChowdhury Professor , Internal Combustion Engines Laboratory (+91)-22-25767504 Combustion Visualization and Optical Diagnostics, Combustion of Energetic Materials (Propellants
Prof. Prashant P.Date Professor F 13, ME Department (+91)-22-25767511 Metal Forming Processes, Formability, Shopfloor Metallic waste processing, Powder Metallurgy, Met
Prof. AmitavaDe Professor F 15, ME Department (+91)-22-25767509 Joining, Additive Manufacturing, Numerical Modeling
Prof. PradeepDixit Associate Professor S 11, ME Department (+91)-22-25767393 MEMS, Microfabrication, Microsystems Packaging, 3D Interconnections, Non-conventional Machining
Prof. P. S.Gandhi Professor S30, ME Department (+91)-22-25767519 Robotics, Mechatronics, multi-scale manufacturing using fluid instabilities, 3D Microprinting, Dy
Prof. R.Ganesh Assistant Professor S 25, ME Department (+91)-22-25767137 Metamaterials, Waves and Vibrations, Applied Mechanics
Prof. Amol A.Gokhale Emeritus Fellow S05, ME Department (+91)-22-25767399 Shock- Material Interactions, Metal Foams, High temperature materials, Fatigue and Fracture in ma
Prof. ShivasubramanianGopalakrishnan Associate Professor S 15, ME Department (+91)-22-25767524 Fluid Mechanics, Numerical Methods, Computational Fluid Dynamics, Geophysical Fluid Dynamics, Mul
Prof. AnirbanGuha Professor S 31, ME Department (+91)-22-25767590 Kinematics and robotics, AI/ML for industrial problems, impact resistant structures
Prof. AbhishekGupta Associate Professor S 32, ME Department (+91)-22-25767523 Robotics and controls, Human-robot interaction, Assistive devices for rehabilitation.
Prof. AnkitJain Associate Professor F32, ME Department (+91) 22 2576 9363 Designing next-generation materials for energy applications.
Prof. KrishnaJonnalagadda Professor S22, ME Department (+91)-22-25767538 Microfabrication, Multifunctional Coatings, Experimental Mechanics, Fracture Mechanics, Dynamic D
Prof. S. S.Joshi Professor (Currently Director,IIT Indore) F 36, ME Department (+91)-22-25767527 Ultra

precision machining (UPM) processes, Modeling and machining of 'difficult to machine' mater
Prof. ShyamprasadKaragadde Professor S 42, ME Department (+91)-22-25767398 Computational and Data methods, Solidification, Microstructures, Transport phenomena X-ray Imagin
Prof. V.Kartik Professor F 12, ME Department (+91)-22-25767540 Dynamics, vibrations and control, Nano- and micro-scale devices, Electric and Hybrid Electric Veh
Prof. K. P.Karunakaran Professor RM Lab, ME Department (+91)-22-25767530 Rapid Manufacturing, CNC Technology & Automation, Computer Graphics for CAM Applications, Rot
Prof. ShankarKrishnan Associate Professor S 27, ME Department (+91)-22-25769354 Heat Transfer, Thermal Management of Electronics, Non-traditional Thermal Desalination
Prof. Makarand. Shrikrishna.Kulkarni Professor S-10, ME Department (+91)-22-25769355 Reliability Engineering, Maintenance Planning, Quality Engineering, Digital Twins for Industry 4.
Prof. Salil S.Kulkarni Professor F38, ME Department (+91)-22-25767513 Computational Mechanics, Applied Mechanics, Finite Element Method, Boundary Element Method, Wave
Prof. AbhijeetKumar Assistant Professor S17A, Mechanical Engineering +91-22-2576-7532 Thermal and fluid engineering
Prof. NeerajKumbhakarna Associate Professorr N-4 Bay, Internal Combustion Engines Laboratory (+91)-22-25767397 TFE, Combustion Visualization and Optical Diagnostics, Computational fluid dynamics and heat tran
Prof. Dhanesh N.Manik Professor S 41, ME Department (+91)-22-25767542 Design Engineering
Prof. DeepakMarla Associate Professor F 36, ME Department (+91)-22-25769361 Laser Materials Processing, Ultra-short Pulsed Laser Ablation, Electrochemical Machining, Electri
Prof. SushilMishra Professor S 14, ME Department (+91)-22-25767391 Metal-forming, Microstrure, Materials Model, Fatigue & Fracture, Residual stress, Thermo-mech
Prof. Rakesh G.Mote Professor S-38, ME Department (+91)-22-25767529 Focused Ion Beam (FIB) and Laser based micro/nano-fabrication, Plasmonics for sensing and beam ma
Prof. SohamMujumdar Associate Professor S 23, ME Department (+91)-22-25767512 Micromanufacturing, Surface Engineering, Additive Manufacturing, Sustainability
Prof. Janani SrreeMurallidharan Associate Professor THTF Lab, THTF (+91)-22-25769360 Heat Transfer, Computational Fluid Dynamics, Experimental fluid dynamics and heat transfer, Flow
Prof. Sanjay S.Pande Adjunct Professor S 03, ME Department (+91)-22-25767545 CAD/CAM/CIM, Geometric reasoning and Feature based modeling, AI/ML applications in Design / Manuf
Prof. Shrinidhi S.Pandurangi Assistant Professor S17B, ME Department (+91)-22-25767544 Stability and Bifurcation Theory, Continuum Mechanics, Lithium-ion Batteries, Multiphysics proble
Prof. DnyaneshPawaskar Associate Professor S 28, ME Department (+91)-22-25722545 Solid mechanics, nonlinear dynamics, engineering optimization
Prof. S. V.Prabhu Professor S 24, ME Department (+91)-22-25767515 Fluid Mechanics, Heat Transfer, Flowmetering, Hydrokinetic turbines and wind turbines, Impinging
Prof. BhalchandraPuranik Professor F 11, ME Department (+91)-22-25767536 Compressible Fluid Dynamics and Shock Waves, High-Knudsen Number High-Speed Internal and External
Prof. SripriyaRamamoorthy Professor S29, ME Department (+91)-22-25769353 Acoustics, Vibrations, Hearing, Porous materials, Multi-functional materials
Prof M VRane Professor 203, Heat Pump Laboratory at IIT Bombay (+91)-22-25767514 Energy Conservation, HVAC&R and Alternate Energy Resouces
Prof. AvishekRanjan Assistant Professor S 20, ME Department (+91)-22-25769362 Thermofluids engineering, Magnetohydrodynamics (MHD) and its applications (e.g.
Prof. B.Ravi Institute Chair Professor (Currently Director, NIT Surathkal) S34, ME Department (+91)-22-25764399 Metal casting design & simulationMedical device innovation & entrepreneursh
Prof. Sandip KumarSaha Professor S16, ME Department (+91)-22-25767392 Heat Transfer, Computational Fluid Dynamics, Renewable energy and energy storage, Multiphase flow
Prof. VivekSangwan Assistant Professor S13, ME Department (+91)-22-25769357 Robotics, Mechatronics, Dynamics, Control
Prof. P.Seshu Professor,(Ex.Director, IIT Dharwad) S 39, ME Department (+91)-22-25767525 Computational Mechanics (Finite elements, stress & vibration analysis)
Prof. Darshan S.Shah Assistant Professor S21, ME Department (+91)-22-25767518
Prof. AtulSharma Rahul Bajaj Chair Professor(Head of the Department) F-31/ME Office, ME Department

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Prof. SreedharaSheshadri Professor S 35 Second floor MECH-building, ME Department (+91)-22-25767597 Computational Fluid Dynamics, Turbulent Combustion, Engine Combustion, LES/DNS of complex turbule

Prof. AmberShrivastava Associate Professor S 04, ME Building (+91)-22-25769358 Solid State Joining, Additive Manufacturing, Sustainable Manufacturing, Friction Welding, Wire Ar

Prof. AmitSingh Associate Professor S26, ME Department (+91)-22-25765363 Continuum Mechanics, Multiscale methods, Statistical Mechanics, Biomechanics, Heat conduction, Tr

Prof. RameshSingh Professor Machine Tools Lab, ME Department (+91)-22-25767507 High-speed micromachining, Flexible reconfigurable fiber laser based materials processing, Novel

Prof. GurminderSingh Assistant Professor S19, ME Department (+91)-22-25767526 Additive Manufacturing, BioManufacturing, BioMaterials, Polymers, ceramics and Metal foams, CAD/C

Prof. ArunkumarSridharan Professor THTF, ME Department (+91)-22-25767580 Heat Transfer, Experimental fluid dynamics and heat transfer, Two phase flow and heat transfer, N

Prof. AtulSrivastava Professor F 07, ME Department (+91)-22-25767531 Heat and Mass Transfer, Two phase flows, Bioheat transfer, Optical techniques for whole field mea

Prof. ShashikanthSuryanarayan Associate Professor F 33, ME Department (+91)-22-25767546 Control Systems Design, Mechatronics

Prof. Parag U.Tandaiya Associate Professor S 18, ME Department (+91)-22-25767528 Fracture mechanics, Finite element modeling, Computational Solid Mechanics, Mechanical Behaviour

Prof. AsimTewari Professor Transit BLDG, Transit BLDG (+91)-22-25767521 Internet of Things - Product Development, Smart Manufacturing, "Big Data" in Manufacturing, Appli

Prof. Rajendra P.Vedula Professor THTF, ME Department (+91)-22-25767547 Thermal and Fluid Engineering

Prof. Nitesh P.Yelve Assistant Professor S 33, ME Department (+91)-22-25767520 Vibration, Machinery diagnostics, Guided wave-based SHM, Fibre-reinforced composites