

INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH

HANDBOOK 2022-23



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/statutes or the like. If there is some critical information to which the reader of this handbook refers, it is with his or her own responsibility that it is put to use, with cross verification if need be.

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MESSAGE

HOD , IEOR

Dear students:

I am delighted to welcome each of you to Industrial Engineering and Operations Research (IEOR) at IIT Bombay for your post-graduate studies. The field of IE & OR may be quite new to most of you, and you will be eager to know more. Let me start there. IE & OR, as a field, studies complex human systems (such as supply chain, transport, healthcare, manufacturing, agriculture, financial services, defense etc.) and the formal structures therein (planning, timetabling, scheduling, queueing, etc), using structured rigorous methods (optimisation, simulation, statistics, probability, game theory, machine learning, etc.). Your post-graduate studies curriculum at IEOR has been carefully designed to provide you with the right mix of tools, techniques, theory and applications. You will be doing compulsory and elective courses to enhance your understanding of the field. The curriculum also involves a significant research component where you will get a chance to do some significant work, under the guidance of faculty experts. All faculty and staff of IEOR are eagerly looking forward to working with you, and providing you with an enriching education. Your experience here will be what you make of it, limited only by the limits you put on yourself.

I wish you all the very best in your endeavours, and would like to thank you for choosing IEOR for doing your post-graduate studies.



PROF. JAYENDRAN VENKATESWARAN
HOD

MESSAGE

FACULTY ADVISOR (M.Tech)

Dear students,

Welcome to IEOR@IIT Bombay and hope to meet you all soon. After couple of years of online mode, we are now gearing towards full fledged offline mode. I am also equally excited and looking forward to meet you and also to have lectures in classroom. The first advise to all of you is to carry an umbrella. The rains in Mumbai is one of a kind. Our campus is excellent with greenery during monsoon.

I urge you all to be in regular touch with the faculty regarding all matters. Feel free to talk to any of us and on any topic, whether academic and non-academic. As a faculty advisor, I will help you with the registration, choosing electives. I will also be the point of contact for any administrative work.

The coursework at IEOR is quite demanding and it is very important that you play attention from the very first class. Do get in touch with if you face any difficulty with the courses.

Many MTech students in last few years have converted to PhD and you are all welcome to explore this to pursue research career in academia or in industry.

All the best



PROF. K.S. MALLIKARJUNA RAO

Faculty Advisor , MTech

MESSAGE

FACULTY ADVISOR (M.Sc.-Ph.D.)

Welcome !

Welcome to IEOR ! Welcome to your exiting days of academic and non-academic explosion ! Please be honest and grab the most out of the opportunity !

Thanks,



PROF. MANJESH HANAWAL
Faculty Advisor

MESSAGE

Overall Coordinators, ISCP

Dear new entrants,

Heartfelt congratulations for embarking on one of life's most memorable journeys - the journey of learning at IIT. On the behalf of our prestigious institute of IIT Bombay, team ISCP welcomes you aboard.

Give a pat on your shoulder for having achieved this feat. Your dedication, hard work and perseverance brought you here, and we know that your experience will lead you towards great opportunities. We can guarantee that your time here on this colossal campus will be exciting and knowledgeable. A degree will just be a small portion of what you will be leaving this institute with. You will also leave with beautiful memories of late-night conversations, interesting wing cultures, and crazy birthday parties (oh you are going to miss those!!). You will have the opportunity to mingle in various clubs and societies where individuals strive to become experts in their fields and devote endless hours. As a result, there will be many chances to learn inside and outside the classroom. So entering this new universe in itself presents both exhilaration and potential difficulties. This is where we will help you by providing the tips you need to handle these difficulties and enjoy your time at IIT Bombay.

Now, you should be thinking what on earth is this ISCP? 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, guide you through your ups and downs and make sure that each voice is heard. You will become part of a culture where people want to perfect their craft and thus work day in and day out. Various events are organised by the cultural, technical, and sports clubs in the institute throughout the year. Managing these along with 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 want to help you in low and high tides as an act of giving back what they received from the programme. You can rely on the team for any advice or information on anything you are venturing out into, whether it be academics or extracurriculars, any issues that you are facing, any support or requirements that you want to raise as a part of the student community. And at last but undoubtedly not least just for regular interaction because that is all the programme holds at its core. The knowledge and the experience that our student companions have gained with their stay on the campus will help your transition become smooth. From campus tours to classroom lectures, from the grading system to completing the syllabus, from the profile to placements, from Schezwan Frankie to curry-pakora, they will be there for you.

We are sure that the last couple of years have been rough for many of you. But as we know that life moves on. So, make sure that you make the best out of your journey at IIT Bombay. Come and contribute to this vast store of knowledge and help it become more vibrant and colourful.

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



PRABHAT
Overall Coordinator



ABHISHEK RAMAN
Overall Coordinator



DIPANKAR KULI
Overall Coordinator



ANAND CHARAN KATHUA
Cabinet Member



ASHISH KUMAR GAUTAM
Cabinet Member

MESSAGE

Department Coordinators, ISCP

Dear juniors!!

First of all heartiest congratulations to you for making it to one of the premier institutes of the country. You can proudly pat yourself on the back for achieving this feat !!

We welcome every one of you to the most prestigious institute in India on behalf of the IEOR department. This semester most likely won't be online. For every one of us, this offline semester will be a first-time experience. You do not need to worry though, as it would add an excellent memorable experience in your life. During the offline semester, you will get the chance to participate in the activities happening here in a more efficient way and would be experiencing what really IIT-B is known for. We will be by your side during the entire journey. Our mentors were always there to help us when we needed them last year when we were first-year students at IIT. It's now our duty to return it back in form of helping you. We encourage you to explore this environment and get benefits from the opportunities as much as possible.

Please don't hesitate to share any problem whether it is related to academic or non-academic issues. Our team will always be there to guide and support you and we will make sure that the initial phase of your journey to IIT-B is as smooth as possible. Once again congratulations and best wishes for all your future endeavours.

Cheers and best wishes.



SIDDARTH JAIN
Department Coordinator
M.Tech.



RAHUL VAISHNAV
Department Coordinator
M.Sc. - Ph.D.

MESSAGE

PG 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 in one of the prestigious institutes in the country. IIT Bombay provides best exposure to its students in all the 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 their 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!

Regards,



MOHIT MEENA
Institute Master Representative
(Institute Secretary of Academic Affairs)

ABOUT 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 programmes, the institute attracts the best students from the country for its bachelor's, master's and doctoral programmes. Research and academic programmes at IIT Bombay are driven by an outstanding faculty, many of whom are reputed for their research contributions internationally.

IIT Bombay also builds links with peer universities and institutes, both at the national and the 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 as well as to mobilize financial support.

Over the years, the institute has created a niche for its innovative short-term courses through continuing education and distance education programs. Members of the faculty 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 IEOR

Industrial Engineering and Operations Research (IEOR) is an academic discipline concerned with making systems more efficient. Often this goal is achieved through the use of modelling and other computational methods.

Industrial Engineering and Operations Research (IEOR) at IIT Bombay offers research-based M. Tech., Ph.D., and M.Sc.-Ph.D. dual degree programmes, and is actively involved in research (including sponsored projects), consulting and continuing education. The discipline offers a blend of theory, modelling, and application, drawing from traditional as well as modern areas of operations research, together with a system view derived from long-standing principles of industrial engineering. This approach provides a backdrop for technically sound decisions at operational and tactical levels and occasionally at the strategic level, for a variety of organizations.

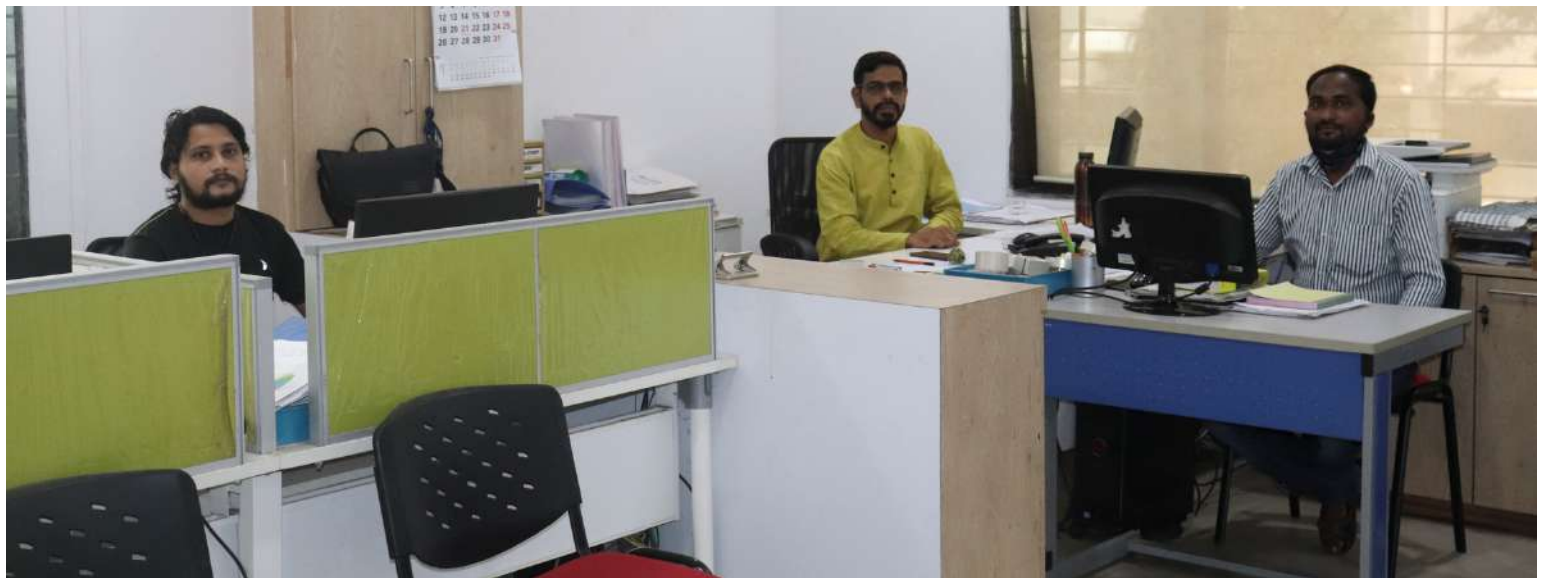
Established as one of the first interdisciplinary programs in IIT Bombay, IEOR contributes significantly to achieve the goals of IIT through various activities such as offering academic programs, conducting continuing education programs (CEP), carrying out research projects of different types.

The IEOR program also has steady interaction with a wide spectrum of industries and sectors of the economy and society through participation in conferences, hosting visitors from academia and industries, carrying out sponsored projects, and placement of students in different sectors, etc.

IEOR graduates work in a variety of research labs and industries, including manufacturing, communications, transportation, banking, pharmaceuticals, finance, travel, semiconductor, and business, sports, health, and information technology.



IEOR GALLERY



FACULTY AT IEOR



Prof. Jayendran Venkateswaran

Email: jayendran@iitb.ac.in

Research Interests: Modelling, simulation, and analysis of complex systems (viz. supply chains).



Prof. Nandyala Hemachandra

Email: nh@iitb.ac.in

Research Interests: Operations Research methodologies like Markov decision models, Queueing models, Game theory, etc. Application areas include Communication networks, Supply chains, Financial Engineering, Logistics and Power systems



Prof. K.S. Mallikarjuna Rao

Email: mallik.rao@iitb.ac.in

Research Interests: Deterministic and Stochastic Control, Game Theory, Viscosity Solutions, Markov Decision Processes, Mathematical Finance.



Prof. Narayan Rangaraj

Email: narayan.rangaraj@iitb.ac.in

Research Interests: Railway Operations Management, Optimisation, Logistics and Supply Chain Management, Pricing and Revenue Management



Prof. Manjesh Kumar Hanawal

Email: mhanawal@iitb.ac.in

Research Interests: Communication Networks, Machine Learning, Network Economics.

FACULTY AT IEOR



Prof. Vishnu Narayanan

Email: vishnu@iitb.ac.in

Research Interests: Mathematical Programming especially Integer Programming, Convex Optimization, Polyhedral Theory.



Prof. Ashutosh Mahajan

Email: amahajan@iitb.ac.in

Research Interests: Mixed-Integer Linear and Nonlinear Optimization, Algorithms, Software and Applications of Optimization.



Prof. Veeraruna Kavitha

Email: vkavitha@iitb.ac.in

Research Interests: Stochastic processes, Queuing Theory, Polling systems, Optimal control, Game theory, Stochastic approximation, Wireless communications.



Prof. P. Balamurugan

Email: balamurugan.palaniappan@iitb.ac.in

Research Interests: Theoretical and practical aspects of Machine Learning, Data mining, Optimization for data science, Longitudinal Data Analysis and related application.



Prof. Siddhartha Sengupta (Adjunct Professor)

Email: siddhartha.sengupta@tcs.com

Research Interests: Large scale automated Automated Railway Planning, Transportation planning, Creating value from ICT, Logistics and Supply Chain Management (including Pricing/Revenue Management), Machine Learning and Artificial Intelligence

FACULTY AT IEOR



Prof. Madhu Belur

Email: belur@iitb.ac.in

Research Interests: Railway timetabling: development of tools, Singular and descriptor systems: impulse elimination, Dissipative systems: algorithms for storage functions, Operations research: timetabling, bottleneck identification and congestion control, Graph-theoretic methods and structural control, Allocation problems and matching techniques



Prof. Avinash Bhardwaj

Email: abhardwaj@iitb.ac.in

Research Interests: Conic (mixed) integer programming, Linear and Non Linear Discrete Optimization, Polyhedral cutting planes for mixed-integer programming, Polyhedral Combinatorics, Optimization under uncertainty, Combinatorial Optimization, Approximation Algorithms, Computational Optimization



Prof. Jayakrishnan Nair

Email: jayakrishnan.nair@ee.iitb.ac.in

Research Interests: Queueing theory, Communication networks, Heavy tails.



Prof. Urban Larsson

Email: urban031@gmail.com, larsson@iitb.ac.in

Research Interests: Game Theory, Discrete Mathematics, Number Theory, Combinatorics, Cellular Automata, Mechanism Design, and Algorithms.

IEOR & Industry

- The department of IEOR has had a 25-year long collaboration with the Indian Railways (IR) with Prof. Narayan Rangaraj having played an instrumental role in establishing this relationship. He has spent a considerable amount of time in this industry by serving as a guest faculty at the Railway Staff College (now National Academy of Indian Railways) in Vadodara where railway officers undergo a formal training, and later at the Indian Railways Institute of Transportation Management, Lucknow
- “Localization of Solar Energy through Local Assembly, Sale, and Usage of 1 Million Solar Urja Lamps (SoUL)”, initiated by Prof. Jayendran Venkateswaran and Prof. Chetan Solanki, IIT Bombay aims to empower populations in underserved communities, through high-quality programs that meet their real needs to improve the quality of their lives. IIT Bombay has received a sanction from the Government of India’s Ministry of Finance’s National Clean Energy Fund (NCEF) through the Ministry of New and Renewable Energy (MNRE) for distributing 1 Million solar lamps to several states across India
- FOSSEE (Free and Open Source Software in Education) is a project that aims at improvising the quality of education and comes under the National Mission on Education through Information and Communication Technology (ICT) and is funded by the Ministry of Human Resources and Development, Government of India. Prof. Ashutosh Mahajan contributed to the FOSSEE Optimization Toolbox (FOT) by providing to the users of Scilab, an interface to several open-source solvers like IPOPT, CLP, Symphony, CBC, and others to solve different types of optimization problems
- Timetabling has been an integral part of Prof. Ashutosh Mahajan’s work here at IIT. He works on both exam and regular lecture timetabling. Prof. Ashutosh and his students work along with Prof. Jayendran Venkateswaran and Prof. Narayan Rangaraj in this endeavor
- The department of IEOR has been collaborating with Mercedes-Benz since 2014 where students under the guidance of Prof. Narayan Rangaraj and Prof. Manjesh Hanawal undertook sponsored projects involving the analysis of the performance of various vehicle components and exploring the field of video analytics.
- IEOR has been working with Delhivery on various aspects of Network Optimization, under the supervision of Prof. Ashutosh Mahajan.

ACHIEVEMENTS IN IEOR

- Prof Manjesh Hanawal has been appointed as the Professor in Charge of Technocraft Center for Applied Artificial Intelligence located at IEOR building.
- The book "Game Theory and Networks: New Perspectives and Directions", co-edited & published by Prof. K. S Mallikarjuna Rao.
- The research paper, co-authored by Prof. Ashutosh Mahajan, 'Minotaur: a mixed-integer nonlinear optimization toolkit', has been awarded the '2021 Best Paper Award' by the editorial board of Mathematical Programming Computation Journal.
- Prof. Narayan Rangaraj has been selected as a Fellow of the Operational Research Society of India (ORSI), for his overall contribution to the field of Operations Research at ORSI Annual Convention.
- Two research scholars of IEOR, Mr. Pranav Vinod Machingal and Ms. Kritika Karwasra have been awarded the prestigious PMRF fellowship. The Prime Minister's Research Fellows (PMRF) Scheme aims at improving the quality of research in various higher educational institutions in the country. With attractive fellowships, the scheme seeks to attract the best talent into research thereby realizing the vision of development through innovation. The candidates are selected through a rigorous selection process and their performance is reviewed suitably through a national convention.
- Sanket Mishra (Ph.D. student) secured 2nd prize in the essay competition. This is the second time he has won the Vigilance Awareness Week Essay Competition.

There are even more achievements from our faculty and students, do check the IEOR Department Website for more details.

Laboratories & Research Facilities

LIBRARY

The Department library is located at Room No. 301 (Third floor), IEOR Building. Irrespective of its size, it proves to be a valuable resource for IEOR students because a number of IEOR specific books which are not available in the central library and are expensive to buy are available here. Some M.Tech. dissertations are also available in our library, so that students can refer to them and get some ideas about writing a dissertation. The library affairs are handled by the Joint Secretary (Library and Publications). For more information regarding library, go to: www.ieor.iitb.ac.in → User Login (LDAP ID and Password) → internal → IEOR Library.

IEOR LAB

The IEOR lab has nine PCs with internet connectivity plus one Wi-Fi router and a few additional LAN ports so that people with laptops can make use of it in the lab. All the PCs have both Windows and Linux operating systems. Also, the PC's are connected to the OPTIMUS server of IEOR where one can login to use the software. Whatever may be the purpose (of course it should be strictly academic), the Lab is at your service 24*7. All you have to do is get a permission to issue the key from IEOR Office (First Floor of the building) and use the lab any time you want. The lab affairs are handled by the Office Holder, Mr. Abasaheb Molavane.

Ph.D. LAB

The Ph.D. Lab is where the brilliant research minds of IEOR are at work. The Ph.D. students are no less than guides and mentors for the M. Tech. and M.Sc.-Ph.D. students, so never hesitate to drop by and get your doubts cleared by them. This lab has 24 hours internet connectivity through LAN and an additional Wi-Fi router so that personal laptops can be used. The Lab also houses the OPTIMUS and the PASSPOLI servers of IEOR through which softwares like AMPL, Scilab etc. can be accessed. Also Ph.D. lab is well known for its cleanliness, always keep in mind whenever you visit lab, keep your footwear outside the lab.

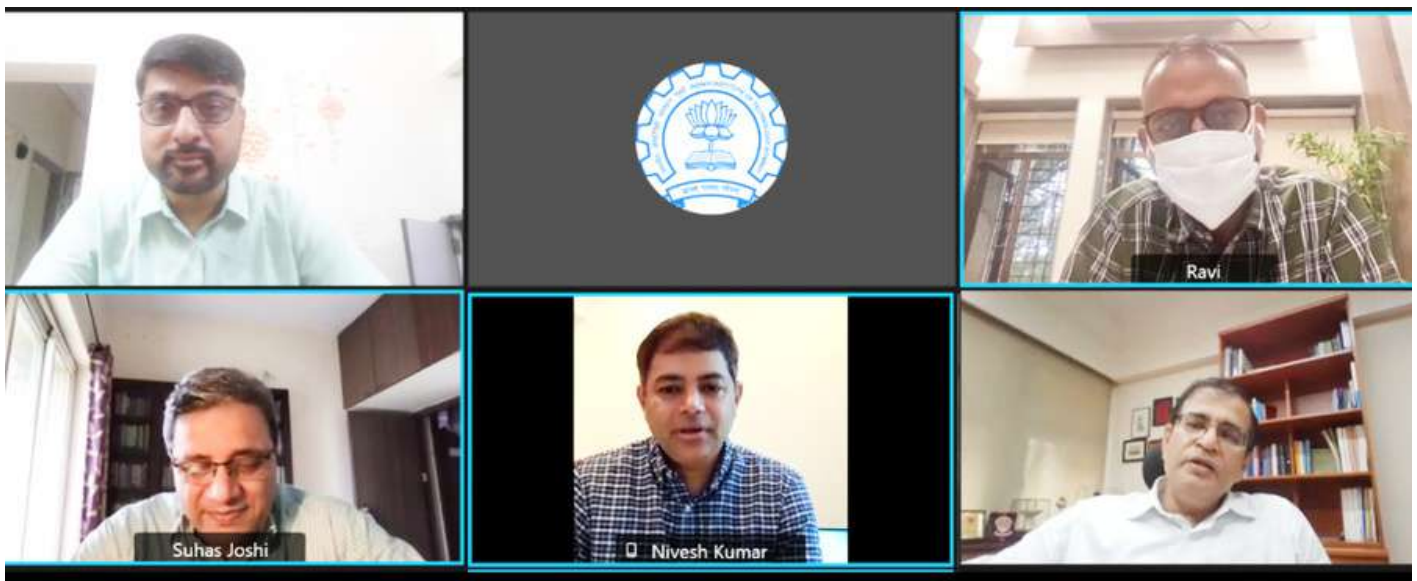
OTHER FACILITIES

- Teaching Lab
- Conference Room with an interactive projector
- Seminar Room with an interactive projector
- Meeting Room with an interactive projector
- Solar Urja Lamp (SoUL) Office

Endowment by Alumni

An endowment of Rs 1.25 Crores by our alumnus, Mr. Nivesh Kumar, was received for furthering academic activities in the IEOR department over the next 5-10 years. The endowment has multiple components, intended to support students, faculty, and staff in their research efforts and create opportunities to explore newer areas, including in the field of Industrial Engineering and Operations Research. The MoU provides research support in the form of awards, support for specific research projects, and recognition of quality work in the area. It also envisages seed funding for new projects and promising areas of work.

Nivesh Kumar is an M.Tech alumnus of Industrial Engineering and Operations Research, graduating from IIT Bombay in 2006. Nivesh has worked in the quantitative finance sector after graduation, working in India, Japan, Hong Kong, the UK, and Singapore for different investment banks and hedge funds, and is currently with ExodusPoint Capital Management, as a systematic Portfolio Manager managing global equities portfolio based out of Singapore. His area of expertise is Quantitative Trading.



Laboratories & Research Facilities

Technocraft Center for Applied Artificial Intelligence (TCA2I)

The Technocraft Center for Applied Artificial Intelligence (TCA2I) was set up at IIT Bombay in June 2021. The center will engage in focused research areas of Operation Research using Artificial Intelligence, Data Science, and Automation with a strong preference to applied works in industrial settings. Artificial Intelligence is expected to be a major driver of industrial economic and social progress in the years to come. Through the Centre, IIT Bombay wants to become a forerunner in applied AI and be an enabler of the national goal of leadership in applied AI through the expertise of iits faculty in AI, Data Sciences, Machine Learning and Optimization. In addition to the research and developmental activities, the Centre will also spread awareness of applications of AI and offer certificate programs and tailored courses to Industry professionals. The center is located at Third floor, IEOR building. For more information regarding library, go to: www.tcaai.iitb.ac.in .



Important Websites

IEOR website

This is the department's website. It has the contact details of all faculty members, staff, and students of the department. It also displays the academic research areas of IEOR. We have a student council in our department, abbreviated as IEORSA. Get familiarized with the council members, you will get the contact details of everyone on the website under the People tab. Since this semester is going to be online, get in touch with Joint Secretary (Acad.) for all academic grievances. Also, information about various events happening in the department can be found here.

Visit at <https://www.ieor.iitb.ac.in>.

Application Software Centre (ASC) – Administration

This website is the main interactive website for a student for all administrative requirements. The website also has links to all other websites of the institute. Some of the most important facilities offered by this website are shown:

- **Running courses:** You will get to know about the courses of different departments running in the current semester in the Running Courses tab. Make sure you visit it before the course registration date
- **Status:** You will get to know about all the courses you've registered in till now in your curriculum
- **Timetable:** Once you register for the courses, a timetable will be generated automatically for your current semester
- **Course withdraw:** If you want to withdraw from a course you registered for at the start of the semester, You can do so in the Course Withdraw section. You need to get permission from the faculty advisor for the same

Visit at <https://asc.iitb.ac.in>.

Moodle-Academics

This website is designed to get content shared by faculty to students. You can download study material uploaded by a professor from here and also submit assignment\quizzes submission when asked by professors. There is also an announcement tab for every subject where the professor announces some information related to the course, following which you will get a notification on your Webmail. But when you use the announcement tab to send something, it will go to every student registered for the course, hence avoid sending mails from this platform unless necessary.

Visit at <https://moodle.iitb.ac.in/>.

Webmail

This service enables you to access your mailbox (IIT-B email ID \ LDAP) from anywhere (inside or outside IITB) via the Internet. You will get notifications of various updates via webmail, do check it multiple times a day.

Visit at <https://webmail-ss0.iitb.ac.in/>.

Important Websites

Computer Centre

IIT-B provides students with various Computer Facilities which include Email, Web Browsing, File Storage, and Terminal Access. All these are based on your LDAP-ID and password.

Click here to visit the website

But you should be thinking about what is this LDAP?

Details about LDAP:

IITB provides students with various Computer Facilities which include Email, Web Browsing, File Storage, and Terminal Access. All these are based on your LDAP-ID and password.

It is suggested to use these facilities responsibly for your and IITB's security.

Every student/staff will get an LDAP account, when (s)he joins IITB. Using this, (s)he can browse the internet (using this user ID for authentication on IITB proxy server netmon.iitb.ac.in). The user will also get a mail account (userid@iitb.ac.in). The user can also log into the machines in the CC user area using the same user ID. NETMON proxy access and user-area login will expire the moment (s)he completes his/her study at IITB. The email address may be retained as a forwarding address to an external address of the user's choice.

The following things will be available on [CAMP Website](#) :

- Changing Password
- Changing User ID (Only Once)
- Modifying Personal Details
- Set / Reset mail Auto Reply Text
- Set / Reset mail Forwarding Address
- Department Sys-Ads List
- Hostel Sys-Ads List
- Find your User ID from Roll number / Employee Number

The following information will be useful to you for accessing LDAP login and password:

- [LDAP Details](#)
 - Your initial password is your date of birth in DDMMYYYY format. For example, if your birth date is January 5, 1983, your password will be 05011983.
 - If for some reason your initial password does not work, your Department System Admin. will help you fix it.

- [Updating LDAP Details](#)

After registration it is recommended that you visit <http://camp.iitb.ac.in/cgi-bin/index.cgi> and do the following:

- Important: Reset your password immediately
- Choose a new LDAP ID after a month of your registration. You will be able to send/receive emails at YOUR_LDAP_ID@iitb.ac.in. You can change your ID only ONCE.
- If you forget your LDAP password then contact your respective Department System Admin.

Important Websites

External IIT-B Portal

This is the external page of IIT Bombay which can be accessed from anywhere (inside or outside of IITB). This is the portal that is used for registration of bank account, payments of semester fees, hostel fees, etc. Bank account registration is done only once at the start of the first semester. This is important because you will get your stipend in the account that you put in, hence do it very carefully. Along with that, this page also shows a summary of your academic performance to date. You will get to know your grades, courses you did, your credits fulfillment, etc. as shown.

Visit at <https://portal.iitb.ac.in/asc/Login> .

Central Library

The website for the central library offers a search engine for books available in the library. You can also check the number of books issued at any given time, renew them, and “queue” up for any book already drawn by some other individual.

Visit at <https://www.library.iitb.ac.in> .

CDEEP

CDEEP is the platform where you will get access to video lecture series uploaded by professors in every department in current and previous semesters for certain courses.

Visit at <https://www.cdeep.iitb.ac.in> .

InstiApp

An app design by insti , for the students of insti , to get all the information about the institute and various events happening here. The app contains the map of institute , blogs about various events in the institute , information of various technical as well as non-technical clubs ,menus of various hostel mess and placement\internship blogs.

For more details visit at : <https://www.insti.app> or get at [google play store](https://play.google.com/store/apps/details?id=com.insti) .

P.S.: No need to worry about all the nitty-gritty. You will be informed about everything in due course of time. These references are to give you an overview of the facilities that you'll be using most of the time.

SUPPORT STRUCTURES

TO HELP US ALL IN TIME OF NEED

Student Wellness Center

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.

As Covid forced us to be physical separated and make everything uncertain in the near future, it is understandable for anyone to be feeling stressed. SWC is always there to hear from you.

Click [here](#) to visit the website

Gender Cell

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.

Click [here](#) to visit the website

SC/ST Students Cell

The SC/ST Students Cell addresses academic and non-academic issues and complaints received from students in reserved categories. The institute strives to maintain an environment where all communities can participate in academic and research activities without any sort of discrimination with respect to caste or creed. In order to maintain such an atmosphere, the SC/ST students cell is responsible for sensitizing the campus community about the importance of having diversity.

The cell aims to ensure that anti-discrimination laws in the context of race/caste/creed are followed in letter and in spirit.

The cell is where any complaints by students about discrimination and/or harassment are to be brought up. We encourage student victims to feel free to write to the following email address. In addition to by email, one can also consider filing an anonymous complaint at the website: <https://goo.gl/forms/F3BKMxkdGu28OGRz2>. The cell strives to ensure that anonymity is maintained throughout the investigation. The cell is currently headed by Faculty Advisor, Prof. Arindam Chowdhury, Department of Chemistry.

COURSE STRUCTURE & GRADING POLICY

For M.Tech. Curriculum

IEOR offers M. Tech. Degree in Industrial Engineering and Operations Research. The M.Tech. The program is designed to prepare students for professional careers in the area. The academic program leading to the M.Tech. program involves course-credit requirements and research work.

Registration of courses NOT on the approved list needs prior approval from the student's faculty advisor. The final course plan of the student has to be approved by the student's faculty advisor.

SEMESTER-WISE CREDITS DISTRIBUTION FOR M. TECH.

Semester 1

Subject code	Course Name	Lecture	Tutorial	Practical	Credit
IE609	Mathematical Optimization Techniques	3	0	0	6
IE621	Probability and Stochastic Processes I	3	0	0	6
IE503	Operations Analysis	3	0	0	6
IE605	Engineering Statistics	3	1	0	8
IE507	Modelling and Computation Lab	0	1	3	5
---	Elective1	3	0	0	6
Total					37

Semester 2

Subject code	Course Name	Lecture	Tutorial	Practical	Credit
IE630	Simulation Modelling and Analysis	3	0	0	6
---	Elective2	3	0	0	6
---	Elective3	3	0	0	6
---	Elective4	3	0	0	6
IE684	IEOR Lab	0	1	3	5
IE694	Seminar	0	0	4	4
HS791 + IE792	Communication Skills	2	0	0	4*
Total					33+4*

For the M.Tech. Degree, the student must do 90 credits (48 + 42) of Research Work, which culminates in an M.Tech. Thesis. Through the research work, the student must exhibit the ability to think independently and make significant contributions to the field of IEOR.

There are two review stages en-route to the completion of the thesis work, with the second being the final open presentation. Typically, the Stage I review presentation is held at the end of the 3rd semester (October); and Stage II final review presentation is held at the end of the 4th semester (May-June). The final Thesis defense will include an external examiner from outside IITB and an external chairman from outside IEOR.

COURSE STRUCTURE & GRADING POLICY

For M.Sc.-Ph.D. Curriculum

The M.Sc.-Ph.D. dual degree in Operations Research is an integrated doctoral program, for those interested in a research-oriented career. The program is open for students who have at least 2 years/4 semesters of Mathematics or Statistics as their B.Sc. Honors (Major) subject, and are interested in research in engineering / interdisciplinary areas. The academic program leading to the M.Sc.-Ph.D. the dual degree involves foundation (core) courses, advanced courses, and research work (To view the list of courses visit the website of IEOR-IIT Bombay). The candidate will be awarded both the M.Sc. and Ph.D. degrees simultaneously on successful completion of the entire program. However, a student may opt to leave the program with an M.Sc. degree at the end of the 4th semester on fulfillment of credit requirements (the department has to be notified by the end of the 3rd semester).

M.Sc.-Ph.D. coursework includes compulsory & elective courses spread over 4 semesters. First-year courses are designed to equip students with concepts & paradigms of engineering and service systems and provide a strong foundation of the various mathematical & computational models for decision making. Two lab courses (one to learn programming using Python and the other is Modeling and Computation Lab for learning languages like AMPL, Scilab, R, etc.) to strengthen computer-based modeling skills are part of the curriculum. In the second year, students get the option to take multiple elective courses of their choice to specialize in their topic of interest.

Seminar and Project Work are part of the curriculum to expose students to independent reading, writing & presentation of technical ideas in a rigorous manner. As part of Ph.D. requirements, students need to do an IEOR Ph.D. level (8xx level course with at least 6 credits) course and individual projects before starting work on their Ph.D. thesis.

SEMESTER-WISE CREDITS DISTRIBUTION FOR M.Sc-Ph.D

Semester 1						
Code	Course Name	L	T	P	C	
IE501	Optimization Models	2	1	0	6	
IE503	Operations Analysis	3	0	0	6	
IE507	Modelling and Computation Lab	0	1	3	5	
IE509	Computer Programming Lab	0	0	3	3	
IE605	Engineering Statistics	3	1	0	8	
IE621	Probability & Stochastic Processes I	3	0	0	6	
	Communication Skills					
IE 899*	(previously HS791+IE792)	1	2	0	6*	

COURSE STRUCTURE & GRADING POLICY

Semester 2

Subject code	Course Name	Lecture	Tutorial	Practical	Credit
IE614	Linear Systems	3	0	0	6
IE616	Decision Analysis and Game Theory	3	0	0	6
IE622	Probability and Stochastic processes II	3	0	0	6
IE630	Simulation Modelling and Analysis	3	0	0	6
IE684	IEOR Lab	0	1	3	5
IES601	Seminar	0	0	5	5
---	Elective1	3	0	0	6
Total					40

The minimum credit requirement in total is 161+4* which should be completed by the end of the 4th semester.

For course details about the remaining semesters, visit the IEOR website and check for the course structure under Academics → M.Sc.- Ph.D. → Course Work

Grading Policy

The academic system in IIT Bombay is based on credits. All students must complete the required credits for obtaining a degree. The grading scheme is as follows:

Letter Grade	Grade Point
AP	10
AA	10
AB	9
BB	8
BC	7
CC	6
CD	5
DD	4
FF	0 Fail (Eligible for Re-Exam)
FR	0 Fail (Repeat the Course)
DX	Fail (Lack of attendance - Repeat the Course)
II	Incomplete (On Health Grounds)
W	Withdrawn
PP	Passed
NP	Not Passed
AU	Audit

PLACEMENT STATISTICS

The IEOR curricula at IITB are very well structured and prepares you for the best. Being an interdisciplinary course, we get students from a broad spectrum and everyone knows something about something else, jack of various trades!!

We see recruiters coming from a number of sectors - Core Operations Research, Data Science, Finance (Banks), Health Care, Retail, Technology startups, Information Technology, Automobile/Production, Machine Learning, Supply Chain Management to name a few.

Owing to the wide range of courses and projects that are being carried out in IEOR, the department has a high number of job offers being offered to the students who apply for placement.

Year	Program	Registered	Total Offers	% Placed	Total % Placed
2021-22	Ph.D.	0	0	0.0	96.66
	Dual Degree (M.Sc. + Ph.D.)	0	0	0.0	
	M.Tech	17	17	100	
	M.Sc. (3 Yrs)	10	9	90	
	M.Sc. (2 Yrs)	3	3	100	
2020-21	Ph.D.	0	0	0.0	95.65
	Dual Degree (M.Sc. + Ph.D.)	0	0	0.0	
	M.Tech	19	18	94.74	
	M.Sc.	4	4	100	
2019-20	Ph.D.	0	0	0.0	81.82
	Dual Degree (M.Sc. + Ph.D.)	0	0	0.0	
	M.Tech	16	15	93.75	
	M.Sc.	6	3	50	
2018-19	Ph.D.	0	0	0.0	96.43
	Dual Degree (M.Sc. + Ph.D.)	0	0	0.0	
	M.Tech	22	21	95.45	
	M.Sc.	6	6	100	
2017-18	Ph.D.	0	0	0.0	85.2
	Dual Degree (M.Sc. + Ph.D.)	1	0	0.0	
	M.Tech	21	21	100	
	M.Sc.	5	2	40	
2016-17	Ph.D.	0	0	0.0	86.4
	Dual Degree (M.Sc. + Ph.D.)	2	1	50	
	M.Tech	15	14	93.3	
	M.Sc.	5	4	80	
2015-16	Ph.D.	1	1	100	80.0
	Dual Degree (M.Sc. + Ph.D.)	2	0	0.0	
	M.Tech	20	18	90	
	M.Sc.	2	1	50	

Disclaimer: The above figures show only the on-campus placement statistics. Many M.Sc. as well as M.Tech. Students opt for Ph.D. from other top universities while Ph.D. students opt for Post-Doctoral research after their Ph.D.

PROJECTS OF STUDENTS

M. TECH. 2ND YEAR STUDENTS

Name	Roll no	Email ID	Projects/Seminar	
Aditya Dutta	213190001	213190001@iitb.ac.in	MTP	Identifying Anomalous behavior using data Supervisor : Prof. K.S.Mallikarjuna Rao
			Seminar	Classical and Machine Learning Models for Forecasting
			Other	Simulation and optimization of road traffic system, Compressed Sensing using sparse optimization, Analytics for sports
Katikala Geetha Bhargavi	213190002	213190002@iitb.ac.in	MTP	Direct Dispatch opportunity prediction and order fulfillment models for consumer packaged goods. Supervisor : Prof. Narayan Rangaraj
			Seminar	Application of ML algorithms for Driving Range . Prediction of Electric Vehicles
			Other	Metaheuristic algorithms study and their implementation to Vehicle Routing Problem using Genetic Algorithm(GA) and particle swarm optimization (PSO) Simulation of passenger flow for old delhi metro station.
			POR and Credentials	Company Coordinator, Institute Placement Team 2022-23 Student Companion, ISCP (Team 2022-2023)
Vaibhav Singh Panwar	213190004	213190004@iitb.ac.in	MTP	Deep Learning for Text Analytics Supervisor- Prof. Balamurugan Palaniappan
			Seminar	Applications of Machine learning techniques for supply chain demand forecasting
			Other	Image captioning and Question answering using Deep Learning. .Community detection with side information using SDP. Assembly line optimization using Simulation.
Rohit Soni	213190005	213190005@iitb.ac.in	MTP	Pattern Recognition-AI and NMR aided HOS analysis for Structural similarity of Biological Drugs Supervisor: Prof. Manjesh Hanawal
			Seminar	Automatic Speech Emotion Recognition Using Machine Learning
			Other	Drone delivery optimisation using Anylogic,Circle Packing Problem
			POR and Credentials	Joint Secretary (Academic)

PROJECTS OF STUDENTS

M. TECH. 2ND YEAR STUDENTS

Anuj Meena	213190006	213190006@iitb.ac.in	Seminar	Application of machine learning techniques for supply chain demand forecasting.
			Other	Crop price prediction using machine learning Compressed sensing using sparse optimization and Traffic signal optimization by simulation
Siddarth Jain	213190008	213190008@iitb.ac.in	MTP	Combinatorial Game Theory and Learning , Supervisor: Prof. Urban Larsson
			Seminar	Integration of Blockchain and AI for covid-19 like pandemics
Harshit Yadav	213190014	213190014@iitb.ac.in	Other	Drone delivery optimisation using Anylogic, Comparative Study of Ant Colony Optimization Heuristic to solve travelling salesman problem, Classification of Ant vs. Bees using transfer learning.
			POR and Credentials	ISCP Department Coordinator
Shailendra Namdev	213190015	213190015@iitb.ac.in	MTP	Network design and operations management for logistics. Supervisor: Prof. Ashutosh Mahajan
			Seminar	Dynamic Job Shop Scheduling through Deep Q-Learning using Discrete Event Simulation.
Danish Manzar	213190018	213190018@iitb.ac.in	Other	Hospital beds allocation in Tata Memorial Hospital, Mumbai using simulation, Strength of McCormick relaxations for bi-linear functions, Risk assessment for the supply chain of fashion apparel industry using system dynamics.
			POR and Credentials	Department Placement Coordinator (M.Tech)
Danish Manzar	213190018	213190018@iitb.ac.in	MTP	Supply chain distribution network design Supervisor : Prof. Jayendran Venkateswaran
			Seminar	Machine learning for predicting Material backorders in Inventory management.
Danish Manzar	213190018	213190018@iitb.ac.in	Other	Operation Research Intern at Delhivery Pvt. Ltd Simulation of passenger flow for old delhi metro station. Strength of McCormick relaxations for bi-linear functions,
			POR and Credentials	Department Sport secretary
Danish Manzar	213190018	213190018@iitb.ac.in	MTP	Railway Congestion Metric Supervisor : Prof. Narayan Rangaraj
			Seminar	Melody generation using RNN-LSTM Model
Danish Manzar	213190018	213190018@iitb.ac.in	Other	Metaheuristic algorithms study and their implementation to Vehicle Routing Problem using Genetic Algorithm(GA) and particle swarm optimization (PSO). Simulation of passenger flow for old delhi metro station.
			POR and Credentials	Overall Coordinator at IEOR Day Event

PROJECTS OF STUDENTS

M. TECH. 2ND YEAR STUDENTS

Vivek Kumar	213190020	213190020@iitb.ac.in	MTP	ML in EMA Workbench Supervisor : Prof. Jayendran Venkateswaran
			Seminar	A Machine Learning Framework for Predicting Purchase by online customers based on Dynamic Pricing
			Other	Community detection with Side information using SDP Traffic Signal Optimization
Mayank Priyadarshi	213190021	213190021@iitb.ac.in	MTP	To be decided later
			Seminar	Applications of Dynamic Pricing Models
			Other	High Rank Matrix Completion
Rohit Ram Sharma	213190022	213190022@iitb.ac.in	MTP	Hypertocal delivery network optimization Supervisor : Prof. Vishnu Narayanan
			Seminar	Data management in supplying chain using block chain.
			Other	Simulation and analysis of suez canal, Community detection with side information using SDP, Risk assessment for the supply chain of fast fashion apparel industry
			POR and Credentials	Student Companion, ISCP (Team 2022-2023)
Palkesh Bhidodiya	213190023	213190023@iitb.ac.in	MTP	Formulation of a congestion metric for a railway network and Congestion dependent routing techniques. Supervisors : Prof. Narayan Rangaraj and Prof. Madhu Belur
			Seminar	Sentiment Analysis using Machine Learning and Deep learning Techniques
			Other	Drone delivery optimisation using Anylogic, Circle Packing Problem
			POR and Credentials	Class represntative, Mtech(2021-2023) Student Companion, ISCP (Team 2022-2023)

PROJECTS OF STUDENTS

M. TECH. 2ND YEAR STUDENTS

Ankit Kumar	213190024	213190024@iitb.ac.in	Seminar	Applications of Dynamic Pricing Techniques
			Other	High Rank Matrix Completion using Integer Programming Simulation and Analysis of Suez Canal
			POR and Credentials	Interview Coordinator, Institute Placement Team 2021-2022
Vikas Kumar Meena	213190025	213190025@iitb.ac.in	MTP	Sports Analytics Using Mixed Integer Programming Supervisor : Prof. Vishnu Narayanan
			Seminar	Scheduling Sports Events using Integer Linear Programming & Heuristic Methods
			Other	Political Redistricting for Minority Group Representation in India, Simulation of Dadar Station Transit Hub, Predicting Bundesliga-2 standings for season 21-22,
Riti Newa	213191001	213191001@iitb.ac.in	MTP	Multi-product Pricing in Networked Markets Supervisor : Prof. K.S.Mallikarjuna Rao
			Seminar	Customer Segmentation Using Data Mining Techniques
			Other	Political Redistricting for Minority Group Representation in India Simulation of Dadar Station Transit Hub Prediction of Wheat Crop Production in India using R-programming Pricing Strategies in Business-to-Business Online Food Marketplace: A Case Study on FoodMaven Corporation
			POR and Credentials	Joint Secretary - Library and Publications Student Companion, ISCP (Team 2022-2023)
Anuj Birani	213199001	213199001@iitb.ac.in	MTP	To be decided later
			Seminar	AI Driven Decision Making in Crop Selection
			Other	Drone delivery optimisation using Anylogic
			POR and Credentials	PR Co-ordinator, PG Cult Abhyudaya Mentor Student Companion, ISCP (Team 2022-2023)

PROJECTS OF STUDENTS

M. TECH. 2ND YEAR STUDENTS

Joshi Meet Anilkumar	21319R001	21319r001@iitb.ac.in	MTP	To be decided later
			Seminar	Machine Learning application in Vehicle Routing Problem
			Other	Assembly line optimization using Simulation.
			POR and Credentials	Joint secretary (H.R.) at IEOR Department
Vidya Shankar	203194001	203194001@iitb.ac.in	MTP	Controlling Packet Drops to improve freshness of information Supervisor : Prof. V. Kavitha
			Seminar	Investigation into OR on Aircraft Runway Scheduling Problem
			Other	SofGAN: Portrait Image Generator with Dynamic Styling; Failure prediction using ML
Aditya D. Bhat	213194003	213194003@iitb.ac.in	MTP	To be finalised in Autumn '23
			Seminar	To be finalised in Spring '23
			Other	Simulation and Analysis of Suez Canal
Sayali A.Kopnar	213194001	213194001@iitb.ac.in	Seminar	To be finalised in Spring '23
			Other	Simulation and Analysis of Traffic signal Junction

PROJECTS OF STUDENTS

M. Sc. STUDENTS (2019-2022)

Name	Roll no	Email ID	Projects/Seminar	
Tushar Shankar Walunj	19i190001	19i190001@iitb.ac.in	Phase 1	Queueing Theory and Game Theory Supervisor: Prof. V. Kavitha
			Phase 2	Global Optimization for Water Distribution Network Supervisor: Prof. Ashutosh Mahajan
			Phase 3	Revenue Maximization for System Consisting Two-sided Queueing System Supervisor: Prof. V. Kavitha
			POR and Credentials	Student Companion, Institute Student Companion Programme, (Team 2020-2021)
Mahim Katiha	19i190002	19i190002@iitb.ac.in	Phase 1	Application of Game Theory in Operations Management Supervisor: Prof. Mallikarjuna Rao
			Phase 2	Simuheruistics Supervisor: Prof. Jayendran Venkateswaran
			POR and Credentials	Department Placement Coordinator Institute Placement Team, 2021-2022
Shubham Chaudhary	19i190003	19i190003@iitb.ac.in	Phase 1	Optimization of long-haul Transportation Supervisor: Prof. Ashutosh mahajan
			Phase 2	Markov Chains Supervisor: Prof. Mallikarjuna Rao

PROJECTS OF STUDENTS

M. Sc. STUDENTS (2019-2022)

Name	Roll no	Email ID	Projects/Seminar	
Neeraj Kumar Bhargava	19i190004	19i190004@iitb.ac.in	Phase 1	Inventory Effect on the Supply Chain Supervisor: Prof. Jayendran Venkateswaran
			Phase 2	Network Optimization Supervisor: Prof. Ashutosh Mahajan
Abhishek Narayan Chaudhury	19i190005	19i190005@iitb.ac.in	Phase 1	High Dimensional Statistics Supervisor: Prof. N. Hemachandra
			Phase 2	Fake News Propagation and Branching Process Supervisor: Prof. V. Kavitha
			POR and Credentials	Internship Coordinator Institute Placement Team, 2019-2020
Reena Meena	19i190007	19i190007@iitb.ac.in	Phase 1	Sustainable Supply Chains Supervisor: Prof. P. Balamurugan
			Phase 2	Braess Paradox Supervisor: Prof. Narayan Rangaraj
Chesta Pahuja	19i190008	19i190008@iitb.ac.in	Phase 1	Deep Learning for Computer Vision Application: Supervisor: Prof. P. Balamurugan
			Phase 2	AI/ML for Next Generation Wireless Networks Supervisor: Prof. Manjesh Hanawal

PROJECTS OF STUDENTS

M. Sc. STUDENTS (2019-2022)

Name	Roll no	Email ID	Projects/Seminar
Shubham	19i190009	19i190009@iitb.ac.in	Phase - I Bilevel Optimization Supervisor : Prof. Ashutosh Mahajan
			Phase - II Vaccination Games Supervisor : Prof. V. Kavitha
			Phase - III Political Vaccination Games Supervisor : Prof. V. Kavitha
			POR PG Convener (GRA-IITB), Group of Rural Activities, Joint Secretary (Cultural), 2019-2020
Subhadeep Chaudhuri	19i190010	19i190010@iitb.ac.in	Phase - I Multi Armed Bandits in Wireless Communication Network Supervisor : Prof. M. Hanawal
			Phase - II Deep Learning in NLP - XLNet Model for Bengali to English Translation Supervisor : Prof. P. Balamurugan
			R&D Project Incorporating Behaviour in Branching Process Based Fake News Propagation Model Supervisor : Prof. V. Kavitha
			POR Department Coordinator, Team ISCP 2020-2021
Saptarshi Majumdar	19i190011	19i190011@iitb.ac.in	Phase - I De-centralised Decision Making with Block Chain as an Enabler Supervisor- Prof. N. Hemachandra
			Phase - II Deep Learning for Audio Analytics Supervisor- Prof. P. Balamurugan

PROJECTS OF STUDENTS

M. Sc. STUDENTS (2020-2022)

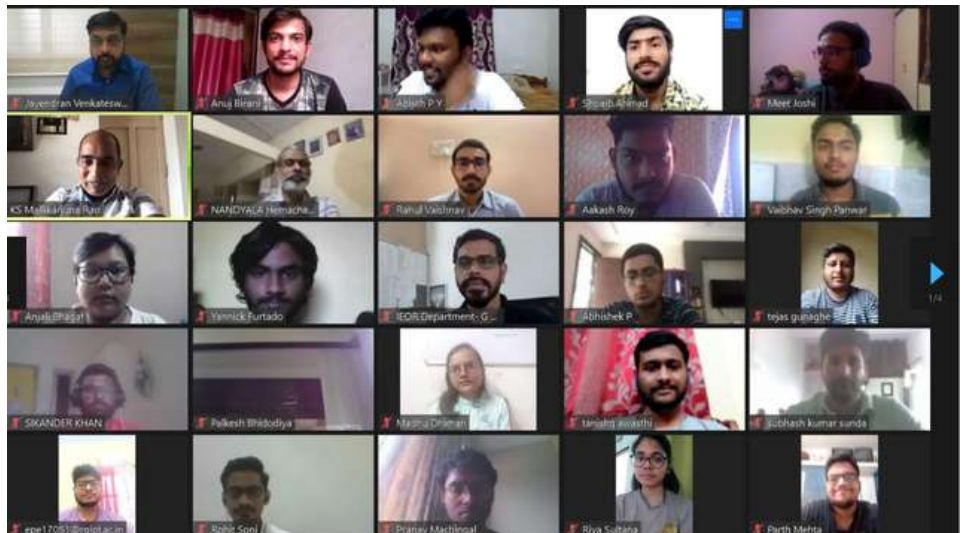
Name	Roll no	Email ID	Projects/Seminar
Nitish Kumar Dumoliya	20i190001	20i190001@iitb.ac.in	Phase - I Developing and Solving Minotaur Solver for Integer Optimization Supervisor : Prof. Ashutosh Mahajan
			Phase - II Federated Learning Supervisor : Prof. N. Hemachandra
			POR Department Joint Secretary (H.R.) 2021-2022
Divya Jyoti Bajpai	20i190003	20i190003@iitb.ac.in	Phase - I Automating Weak Supervision to Label Training Data Supervisor : Prof. M. Hanawal
			Phase - II Automating Weak Supervision to Label Training Data Supervisor : Prof. M. Hanawal
			POR Joint Secretary(Academics) 2021-2022 Outreach Manager (TCA2I) 2021
Bheeshm Sharma	20i190004	20i190004@iitb.ac.in	Phase - I 3D Medical Image Segmantation and Classification Supervisor- Prof. P. Balamurugan
			Phase - II 3D Medical Image Segmentation and Classification Supervisor- Prof. P. Balamurugan
			POR Department Coordinator, Team ISCP, 2021-22 Outreach Manager, TCA2I, 2021
Amit Kumar	20i190005	20i190005@iitb.ac.in	Phase - I Travelling Salesman Problem Supervisor: Prof. Ashutosh Mahajan
Rishabh Jain	20i190008	20i190008@iitb.ac.in	Phase - I Decentralized MARL Supervisor: Prof. N. Hemachandra
			Phase - II Constraints MDPs Supervisor: Prof. V. Kavitha
			Other Internship Coordinator, IPT, 2020-21
Anuj Sharma	20i190010	20i190010@iitb.ac.in	Phase - I Q-Learning with Constraint Supervisor: Prof. V. Kavitha
			Phase - II Q-Learning with Constraint Supervisor: Prof. V. Kavitha
Anand Kumar	20i190011	anand.kumar@iitb.ac.in	Phase - I Deep Learning for Audio Analytics Supervisor: Prof. P. Balamurugan
			POR Student Companion, ISCP, 2021-22

EXTRACURRICULARS

The students of IEOR are actively involved in extracurricular activities as well. They have participated in Sports Events (called General Championships or GCs), Cultural Events, Volunteering among many others.

Here's a glimpse of it.

Life is fun at IIT Bombay !!



Sports @ IIT B

“Be a sport” and enjoy the eclectic sports culture here at IIT Bombay. Different outdoor and indoor sports events-cricket, football, basketball, chess, etc. happen throughout the year. From intra-hostel and inter-hostel events to inter-collegiate and inter IIT tournaments, the calendar is crowded with back to back sport events; giving plenty of time for students to engage and participate.

Here is a look at the eventful year at sports that the IEOB students had in IIT Bombay.



IT'S ALL
FUN AND
GAMES AT
IITB WITH
IEOB
PEOPLE



AND

MANY

MANY

MORE

Sports @ IEOR Gallery



IEOR TEAM IS THE RUNNER UP IN THE MIXED CRICKET LEAGUE, A FULL-FLEDGED CRICKET TOURNAMENT ORGANIZED BY IIT BOMBAY.

CRICKET MATCH ORGANIZED WITHIN THE DEPARTMENT WHERE IEOR STUDENTS PLAYED AGAINST EACH OTHER



IEOR STUDENTS WINNING MEDALS IN VARIOUS SPORT EVENTS ORGANIZED IN THE INSTITUTE

⁰³ Culturals @ IIT B

If you feel that IITB is all work and no play, then you are quite mistaken. IITB takes pride in having clubs that cater to everybody's needs and having fests that are among the biggest in the continent. Students enthusiastic about cultural activities have a lot to look forward to. At IITB with its sprawling infrastructure and numerous clubs for a variety of cultural activities one gets enough exposure to showcase one's talent. Cultural activities are predominant on campus as well with clubs such as InSync dance club, Symphony music club and Style Up fashion club. Apart from all this, we have our own cultural festival explicitly for postgraduates, PGCult.

You will get to explore a lot of genres here, be it Film & Media, Drama, Roots (Classical & Folk Arts), Fine Arts, Photography etc. You name it we have it. We have a plethora of talent here on campus that you can learn from. Make the two years you'll be spending here count. With so many cultural opportunities along with academics in one of the best departments IIT B. So keep your expectations high and start exploring!



**Style Up**
Fashion Club of IIT Bombay

**THE
DESIGN
CLUB**

**SILVERSCREEN**

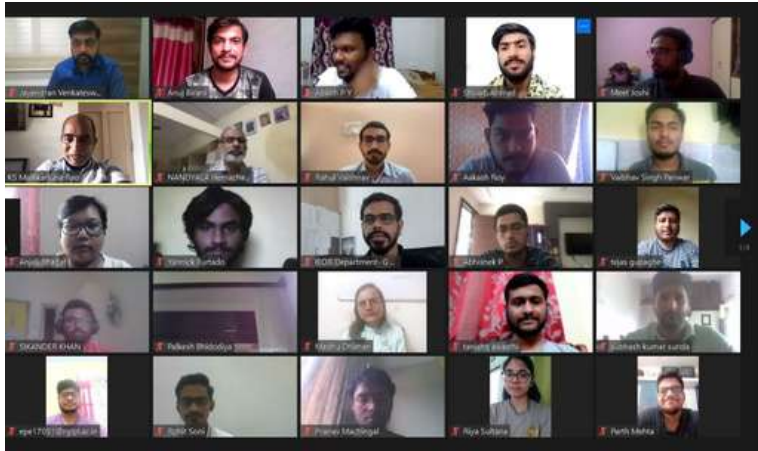
roots
THE CLASSICAL & FOLK ARTS
CLUB OF IIT BOMBAY

**PGCULT**

**ब्राणी**



ACTIVITIES IN THE DEPARTMENT



It's not just the institute, the department has its own share of fun. Looking back at all the activities in IEO.

FRESHER'S DAY

Seniors organize this day to warmly welcome the newcomers of the IEO family. The fun-filled gathering starts with the professor addressing the freshers and introduction from the first year students.

Various ice-breaker games and events are organized including Mr./Ms. Freshie, followed by a photo session to remember the day.



TEACHER'S DAY

Students of the IEO Department celebrate Teachers' Day to express their gratitude to the valuable teachers. Students prepare handmade greeting cards for the teachers. Some fun games are organizing for teachers and students to jointly enjoy this day together.

DUSSEHRA AND DIWALI CELEBRATION

The Dussehra is celebrated at the IEO department with great enthusiasm. A Puja is organized by the students at the Puja Desk setup on the third floor of the building, followed by refreshments.



Diwali is celebrated with Rangoli Making Competition and Diya Painting Competition, followed by a Talent showcase. IEO building is decorated with Lightings, Diyas and Marigold flowers. There are refreshments and different games played.



HOLI CELEBRATION

Colorful and smiling faces mark the department Holi celebration. The festival of colors is marked by a brief holi event in the department with professors and students, followed by the refreshments.



IEOR DAY

IEOR Day is celebrated every year on 2nd/ 3rd April by holding panel talks and sessions. The department holds panel talks, IEOR students present their papers, and venerable speakers and alumni are invited to mark this day.



DEPARTMENT TRIP

The most anticipated event in the department is the department trip. Every year, the students of IEOR department go on a weekend long where it's all fun and laughter for those few days.

Most popular destination is the party capital, Goa, and the tradition of the trip has continued this year as well.



FAREWELL

Sweet nostalgia and lots of fun, this is the IEOR farewell program. The IEOR faculty members also join in the event and say their goodbyes to the graduating batch.

The graduating students share their experiences in IEOR and on campus, and share their future plans. They are then presented with gifts by the faculty members. The faculty members share their thoughts and bless the outgoing batch with their advice.



OTHER ACTIVITIES

Different formal and informal events such as seminar, course-specific symposiums, senior-junior fellowship events, class trips etc. happen throughout the year.

ACTIVITIES GALLERY



**IEOR
DEPARTMENT
PHOTO AT IEOR
DAY**



**SIMULATION AND
MODELING
SYMPOSIUM
WHERE
STUDENTS
PRESENTED
COURSE PROJECT**



**SENIOR-JUNIOR FELLOWSHIP EVENTS:
FAREWELL AND PLACEMENT PARTY**

ISCP IEOR TEAM

Siddharth Jain

Department Coordinator (M.Tech.)

Ph.No: 9079773261

Email: siddharth298jain@gmail.com, 213190008@iitb.ac.in



Rahul Vaishnav

Department Coordinator (M.Sc. - Ph.D)

Ph.No:9772784376

Email: rahulkvaishnav0205@gmail.com,21i190003@iitb.ac.in



Katikala Geetha Bhargavi

Student Companion (M.Tech.)

Ph.No: 9515349162

Email: 213190002@iitb.ac.in, geethabhargavi.katikala@gmail.com



Anuj Birani

Student Companion (M.Tech)

Ph.No: 9649659873

Email: 213199001@iitb.ac.in aanujbirani55@gmail.com



Srijia Mukherjee

Student Companion (M.Sc.-PhD)

Ph.No: 7980565459

Email: smukjerjeesm@gmail.com, 21i190013@iitb.ac.in



Rohit Ram Sharma

Student Companion (M.Tech.)

Ph.No: 7063697505 / 9832068144

Email: rohitramsharma97@gmail.com, 213190022@iitb.ac.in



Palkesh Bhidodiya

Student Companion (M.Tech.)

Ph.No: 8234020177

Email: palkesh33@gmail.com, 213190023@iitb.ac.in



Riti Newa

Student Companion (M.Tech.)

Ph.No: 9589813520/ +977-9841611345 (Whatsapp)

Email: ritinewa@gmail.com, 213191001@iitb.ac.in

IEOR STUDENT COUNCIL

Shivam Mishra

Department General Secretary

Ph.No: 9773919872

Email: rajshivam566@gmail.com, 21i190010@iitb.ac.in



Rohit Soni

Joint Secretary (Academic)

Ph.No: 8764287898

Email: rohitviky96@gmail.com, 213190005@iitb.ac.in



Shailendra Namdev

Joint Secretary (Sports-Boys)

Ph.No: 9669627600

Email: shailendranamdev333@gmail.com, 213190015@iitb.ac.in



Riya Sultana

Joint Secretary (Cultural)

Ph.No: 7908978171

Email: riyasultana848@gmail.com, 21i190011@iitb.ac.in



Joshi Meet Anilkumar

Joint Secretary (H.R.)

Ph.No: 9574067566

Email: meetjoshi6897@gmail.com, 21319r001@iitb.ac.in





Riti Newa

Joint Secretary (Library & Publications)

Ph.No: 9589813520/ +977-9841611345 (Whatsapp)

Email: ritinewa@gmail.com, 213191001@iitb.ac.in

PLACEMENT TEAM

Katikala Geetha Bhargavi

Company Coordinator, Placement Cell

Ph.No: 9515349162

Email: 213190002@iitb.ac.in, geethabhargavi.katikala@gmail.com



Shoaib Ahmad

Company Coordinator, Placement Cell

Ph.No: 8707207595

Email: 21i190012@iitb.ac.in, shoaibahmad696@gmail.com



Harshit Yadav

Department Placement Coordinator (M.Tech)

Ph.No: 98269833171

Email: harshit0308@gmail.com, 213190015@iitb.ac.in



Abhishek Gupta

Department Placement Coordinator (M.Sc.)

Ph.No: 9694129699

Email: abhigupta129699@gmail.com, 21i190005@iitb.ac.in

SNEAK PEEK

A GLIMPSE OF WHAT AWAITS YOU

Hostel



Mess



Lecture Hall



Library



Powai Lake



Convocation Hall



SNEAK PEEK

A GLIMPSE OF WHAT AWAITS YOU

Gulmohar Restaurant



Swimming Pool



Gymkhana Ground



Infinity Corridor



Tennis Court



Basketball Court



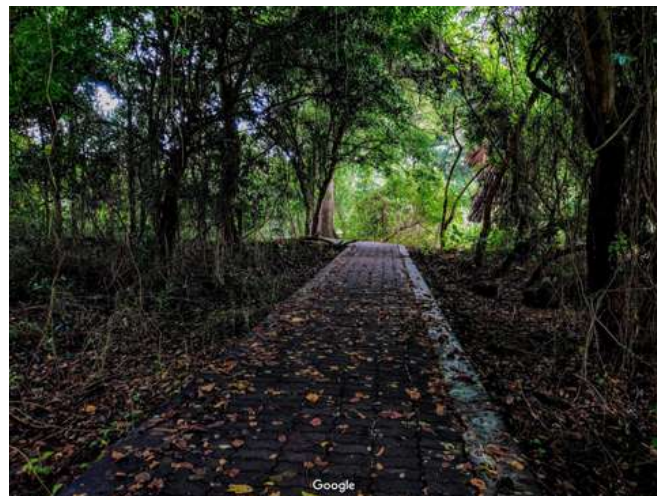
SNEAK PEEK

A GLIMPSE OF WHAT AWAITS YOU

Badminton Court



Boat House Street



View of Campus from Sameer Hills



Your Seniors

AND THEIR SHENANIGANS

"Fly, fly away
Like a bird in the sky
See the world on my behalf
To the heavens may you fly"





WELCOME TO IEOR