Fresher's Handbook

Department of Energy Science & Engineering



IIT Bombay



Disclamier

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

Content

	1
About the Institute	
About the department	2
From HOD's Desk	3
From Faculty Advisor (M.Tech) Desk	4
Message from ISCP	5
Message from IMR	7
Message from Department Coordinator	8
ISCP Team	9
Faculty	11
Clubs and department activities	13
Glimpses of department activities	16
Research Facilities	19
Achievements	20
Course structure and grading system	25
Useful Apps	26
Useful links	27
Placement Statistics of IITB	28
Student Wellness Centre	29
Gender Cell	30
IITB Map	31

About the Institute

The Indian Institute of Technology Bombay (IITB) is a autonomous public institute of higher education & established in 1958 and inaugurated by Pandit Jawahar Lal Nehru. The main objective of IITB is to impart world class education in engineering and technology; to conduct research in the relevant fields, and to further advancement of learning and dissemination of knowledge. These Institutes are also contributing significantly to the education and research in basic sciences and humanities.

Vision and Mission of IIT Bombay

The Vision of IIT Bombay is to be the fountainhead of new ideas and of innovators in technology and science

The Mission of IIT Bombay is to create an ambience in which new ideas and creativity flourish and from which research and scholarship and leaders and innovators of tomorrow emerge

The Indian Institute of Technology Bombay is the one the best institute in the India and also among the world. This institute is providing the best infrastructure for education and also the good infrastructure for sports, cultural, etc. IIT Bombay provides the best research facilities as well as best placements. This institute provides you the facilities of World class academic resource i.e Library, Computer and Internet Facilities, a good hospital with well equipped laboratories to conduct all types of medical test and also has the patient wards, OT and ambulance, different types of sports and cultural programmes, Techfest, Mood indigo, etc, Travel desk, Hospitality, Cafeteria, Gymkhana, different Student clubs etc. Other than these all institutes also provides the facilities of Student Wellness Centre (SWC) and Gender Cell. SWC helps the student in each condition like academic, emotional, mental, social, financial, etc and Gender Cell helps the student in any kind of harassment

About Department

Vision

To develop sustainable energy systems and solutions for the future

The Department of Energy Science and Engineering (DESE) is a leading interdisciplinary energy education and research hub. DESE has developed several novel education programmes focusing on the application of science and engineering to problems in energy. Recent highlights in research and development include a grid connected MW scale solar thermal power plant and test facility, self-cleaning solar PV modules, high efficiency PV cells based on new materials, novel Li ion batteries, improved flow fields for fuel cells, and biofuel based rural electrification. DESE has cutting edge fabrication, characterisation, testing and demonstration facilities with strong industrial linkages and international collaborations

More details regarding the department are available on the department website: https://www.ese.iitb.ac.in/

Faculty	Students intake per year	
Core Faculty- 26	M.Tech students- 25	
Associate faculty- 30	MSc-PhD students- 15	
Staff members- 11	PhD students- 20	

From Head of the department's Desk

Dear Student,

I have great pleasure in welcoming you to the Department of Energy Science and Engineering. Congratulations on your choice and also on your selection to the Department. You join a family of twenty five faculty, 400 students, ten staff and a few hundred project I have great pleasure in welcoming you to the Department of Energy Science and Engineering. Congratulations on your choice and also on your selection to the Department. You join a family of twenty five faculty, 400 students, ten staff and a few hundred project staff in one of the youngest and most vibrant entities in the Institute. We are a unique blend of science and engineering. We are flexible and caring. We are committed to making your stay in the Department memorable and enjoyable

As you know we are in the midst of a pandemic. We are reworking our systems and processes to try to provide initially an online learning experience and as the situation improves move back to regular classes and campus life. During this time please stay engaged with your teachers, teaching assistants- go through the material, attend the live interactions and work on the tutorials, assignments and projects. Please but in your best efforts to see that your learning is maximised even during the online phase. If you have any difficulty please reach out to the faculty, staff or senior students and we will help you

During your stay in the Department you will learn in the classroom, in the laboratory (once you are able to come to campus) and also on your own-through your assignments, seminars and your thesis/project. Energy is an important field with many challenges and opportunities. If you try you will find something that interests you where you can contribute. The Department also has several extra-curricular, co-curricular and fun activities that you can be part of. Due to the current situation some of these activities may happen online but hopefully you would be able to participate live when the situation normalizes.

I hope you will take advantage of the resources, facilities and expertise in the Department to grow professionally.

Please do not hesitate to reach out to me or any of my colleagues if you need any advice, help or have some suggestions to offer.

Best wishes



Rangan Banerjee Head of Department rangan@iitb.ac.in

From Faculty Advisor's Desk

Congratulations on being selected for the Masters of Technology program in the Department of Energy Science and Engineering, Indian Institute of Technology Bombay. We welcome you to the department and the institute in this unprecedented time that none of us has ever experienced. Although the situation is not conducive to bring you to the lush green campus of IIT Bombay this time, we have left no stone unturned to reach out to you virtually. Our classes are going to be online. We will try our best to communicate with each and every one of you. Your seniors will be ever enthusiastic to help you. Do not hesitate to write to me for any concerns that you may have. Please feel to be a part of the department and the institute at large.

Difficult times also present us with opportunities to inculcate different qualities in us. Let us work together to sail smoothly through the rough waters of distant learning through online platforms. We hope to welcome you on campus in the near future

The M.Tech. programme at DESE provides a unique learning experience. Explore and enjoy I look forward to interacting with all of you, albeit virtual for the time being With best wishes,



Manaswita Bose Manaswita.bose@ese.iitb.ac.in Faculty Advisor, M.Tech

Message from ISCP team Coordinators

Dear New Entrants,

These are tough times, but you are not alone.

We welcome you to one of the most prestigious institutes in the nation. Congratulations on having achieved this incredible feat. You are about to become part of a culture that will leave its traces within you for a long, long time, even if it begins 'untraditionally.' You will be the ones witnessing the first term to happen entirely online in the history of IIT-Bombay. It might feel overwhelming, and for all the right reasons, we must say. There will be several things you might be worried about, from coping up with the academics in online mode to missing out on things; however, as we said, "You are not alone."

Institute Student Companion Programme (ISCP) is a student body with the primary objective of building a relationship of trust and comfort between the final year students and the incoming students of the PG programmes. We are here to help you in getting familiar with the ways of IIT-B, which is even more critical in these times. You will become a part of a culture where people want to perfect their craft and thus work day in and day out at it. The scope of these is not limited just to academics. Various online events are and will be organized by the cultural, technical, and sports clubs in IITB, like Code in Quarantine, Fitness challenges, Dance Challenges, etc. Managing these along with online lectures might seem daunting at first, and hence, to help you with a world of problems including these, we assign you a Student Companion.

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

The COVID -19 pandemic has affected all of us. For now, Health concerns prevent your arrival in our beautiful lush-green IIT-B campus, it also prevents your participation in hostel activities, sports, cultural activities. There are many things here at IIT-B waiting for you, but the most important thing is the campus, and the buildings do not define IIT-B. It's you. You set the culture, the activities, you represent IIT-B to the world, and you make IIT-B what IIT-B is. So, knowing that time flies at IITB, we strongly suggest participating in things that happen online other than attending lectures, make memories, reach out to us for any queries, and relax with the comfort of your home. At least till we get an opportunity to welcome you into the campus, let's be safe, let's be optimistic and let's keep our learning spirits high.

Looking forward to getting to know you. Giving out some motivation for these difficult times, we end with a quote by Albus Dumbledore: *"Happiness can be found, even in the darkest of times, if one only remembers to turn on the light."*

Stay Safe!

Overall Coordinators, Institute Student Companion Programme (2020-21) IIT Bombay Email:iscp@iitb.ac.in



Aakrit Anshuman 8904059856 aakritanshuman1@gmail.com



Satyam Rathore 7389102399 er.satyaamrathore@gmail.com

Dear Freshmen,

Congratulations to all freshmen for making it to one of the premier institutes of the country. Despite the stiff competition, you all managed to come out with flying colours. So on behalf of the PG students of IIT Bombay it is my honour to welcome you all here.

So now all of you are a part of IIT Bombay PG community or "PG JUNTA" as we call them. The institute has a wide range of facilities and services to offer to all its students. This will not only ensure a fruitful educational experience but also promote overall skill development. In the institute there are several student run bodies, that focus on development of skills, sports and extracurricular activities such as music, dance, drama etc. Along with academics we urge you all to explore and make the the most of the excellent facilities that the institute has to offer.

As the Institute Master's Representative, my entire team and I aim to address your grievances and help you to the best of our abilities. This time since the first semester for you all is going to be online, you might have a lot of queries in your mind. Please feel free to contact us any time. Our council PGAC is one that is for the PG students, of the PG students and most importantly by the PG students. So whenever you face a problem, we are always there to help you out. Supporting the students in their academic endeavour is also our foremost priority and we will try to improve the IITB experience in all the ways we can. On this note, I once again welcome you all to IIT Bombay, hoping to welcome you all back in the campus as soon as situation gets better, and wishing you every success in your future endeavours.



Institute Masters Representative(2020-2021) Post Graduate Academic Council Sohini Dasgupta imr@iitb.ac.in

Message from Department Coordinators

Welcome all!!!

Hearty congratulations to all of you for making into one of the finest institutes of India. The journey which you all are about to begin may not start in the most ideal way. However, despite the given circumstances it will be one of the most fruitful experiences of your life.

The journey you are about to begin will take you through number of experiences, endeavour and while at start you might feel lost hearing the words and slangs like *POR*, *chamka kya*, *turnitin ka classroom id dede*. But rest assured same was the case with our seniors & your seniors, the culture will take some time to seep into you. The ISCP team and department is always at your disposal to make your journey as fluid as possible and help you to grow. Here at IITB surrounded with the finest brains in our country you will find perspectives which otherwise you would have never come across. While the Covid might keep you away from the exotic campus, the learning won't stop and hopefully you would cherish your coming New Year's Eve in the campus.

We as a team have taken the onus upon ourselves to facilitate and help you in all our forthcoming challenges.

At last but not the least I would like to thank you all for choosing to be a part of the IITB family and welcome you aboard. Wish to see you all soon.

Thankyou.



Nelson Dias, Department Coordinator, ISCP nelsondias21@gmail.com +91 9765379064.

Overall Coordinators



Satyam Rathore 7389102399 er.satyaamrathore@gmail.com

Aakrit Anshuman 8904059856 aakritanshuman1@gmail.com

Department Coordinators



Nelson Dias (M.Tech) 9765379064 nelsondias@iitb.ac.in



Bibhuti M.Sc-PhD 9570638456 bibhutijjp@gmail.com

Student Companions



Vaibhav Gurav +919960842846 vgurav64@gmail.com



Jyoti Chauhan +919429795598 193170025@iitb.ac.in



Swapnil Gandhi +917840970997 gandhisbg@iitb.ac.in



Saurabh Mishra +917355332672 saurabhmishra898@gmail.com

Department Faculty

Anish Modi

F-6|Research 22

anishmodi@iitb.ac.in Solar thermal energy,Concentrating solar power, Multi generation plants, Energy sustainability

Chetan S Solanki

F-6|Research 08 *chetanss@iitb.ac.in* Thin-film Si solar cells, PV technologies and systems, offgrid solar and energy access

Lalit Kumar

F-7|Research 04 lalit.kumar@iitb.ac.in

Wax deposition, bulk and interfacial rheology, oil-water seperation, oil rock interaction

Prakash Chandra Ghosh

F-2|Research 11

pcghosh@iitb.ac.in Hydrogen production from renewables, Low temperature fuel cells

Asish Kumar Sarangi

F-6|Research 20 asish.sarangi@iitb.ac.in IC Engines and combustion, Advanced low temperature combustion, Optical diagnostics, Exhaust aftertreatment, Alternative fuels in IC engines, Engine performance and emissions

Dayadeep Monder

F-7|Research 15 *dmonder@iitb.ac.in* Multi-scale modelling of fuel cells, first principles catalysis and ab-initio thermodynamics

Manaswita Bose

F-7|Research 14 manaswita.bose@iitb.ac.in

Flow of granular materials, Multiphase fluid dynamics, Coal gasification and combustion

Pratibha Sharma

F-6|Research 23 pratibha_sharma@iitb.ac.in Solid state hydrogen storage materials, flurescent core shelled nano-structures for PV

Balasubramaniam Kavaipatti

F-6|Research 11 bala.ramanathan@iitb.ac.in Cheap and abundant materials for photovoltaic applications, transparent conductors

Karthik Sasihithlu

F-7|Research 02 ksasihithlu@iitb.ac.in Heat transfer physics, Thermal boundary resistance, Thin film solar photovoltaics

Manoj Neergat

F-6|Research 21 nmanoj@iitb.ac.in Fuel cells, precious and non precious metal catalysts, electrochemistry of layered materials

Rajesh Gupta

F-5|Research 23 rajeshgupta@iitb.ac.in Reliability and degradation of PV cells and modules characterization and modelling

Rangan Banerjee (Head)

F-2|Research 12

rangan@iitb.ac.in

Energy management and efficiency, energy systems modelling, planning and policy

Sagar Mitra

F-7|Research 03 sagar.mitra@iitb.ac.in

Nano structured materials, Liion, Na-ion batteries, Battery electrode design/fabrication

Sandeep Kumar

F-7|Research 01 sandeep.kumar@iitb.ac.in Biomass gasification, alternate fuel for IC engines, Solid waste management

Sankara Sarma V. Tatiparti

F-6|Research 06

sankara@iitb.ac.in

Hydrogen storage, nano-interface engineering, Polycrystalline dendritic growth

Santanu Bandyopadhyay

F-3|Research 25 santanub@iitb.ac.in

Process integration, pinch analysis, industrial energy conversion, energy systems

Shaibal K. Sarkar

F-7|Research 05 shaibal.sarkar@iitb.ac.in

Sensitized solar cells, photo electrochemistry, nano crystalline materials for PV

Shireesh B. Kedare

F-6|Research 10 sbkedare@iitb.ac.in

Concentrating solar collector, industrial thermal systems, wind machines

Srinivas Seethamraju F-6|Research 09 s.srinivas@iitb.ac.in

gasification, fischer-tropsch synthesis, reactive distillation, waste to energy

Suneet Singh

F-4|Research 18 suneet.singh@iitb.ac.in

Numerical methods for neutron diffusion and fluid flow, stability of nuclear reactors

Suryanarayana Doolla

F-4|Research 16

suryad@iitb.ac.in

Smart gridsmicrogrids power systems operation and control, grid integration of renewables

V. S. S. Pavan Kumar Hari

F-4|Research 17 pavanhari@iitb.ac.in Power electronic, AC motor drives, wind energy conversions, PV inverters

Venkatasailanathan Ramadesigan

F-3|Research 24

venkatr@iitb.ac.in

Modelling and numerical simulation of electrochemical energy storage systems

Zakir Hussain Rather

F-4|Research 07

zakir.rather@iitb.ac.in

Grid integration of renewables, power system dynamics and control, smart grid and micro-grid, demand side response

International Conference on Advances in Energy Research

International Conference on Advances in Energy Research (ICAER):

ICAER i.e. International Conference on Advances in Energy Research is an international conference organized every alternate year at Department of Energy Science and Engineering, IIT Bombay. The conference provides an excellent platform to know, exchange new ideas, and understand the challenges related to the energy sector at large. The latest edition of the ICAER was the 7th conference and was held from 10th - 12th of December 2019. The next conference will be held in the year 2021. The conference works as a much need bridge between the industry and academic allowing effective exchange to ideas and information.

Energy Day

Energy Day is an annual exhibition held at Department of Energy Science and Engineering, IIT Bombay. The day-long event features technical presentations and interactive posters on wide variety of topics like Microgrids, Solar Photovoltaics, Solar Thermal Technologies, Battery and Storage, Fuel Cells, Power converters and Transformers and many more by graduating students of Dual Degree, M.Tech and Ph.D. programs. The main focus is the display of the ongoing research in the department to peers and industries. The Energy Day was due in March 2020, unfortunately due to pandemic situation it had to be cancel.

German Energiewende

The Consulate General of the Federal Republic of Germany, and Indo-German Energy Forum, in cooperation with IIT Bombay, organized an exhibition on German Energiewende (German Energy Transition) at the Department of Energy Science and Engineering, IIT Bombay from 13th to 18th January 2020. Germany has decided to switch its entire energy supply to renewable and to become increasingly energy-efficient, and through Energiewende exhibition, the main organisers of the exhibition were intending to showcase the large scale energy transition in the German energy supply, based on energy efficiency and renewable energies.

The exhibition, with its illustrative panels, video clips and a touch screen for quiz questions, revealed startling facts about Germany's journey towards a sustainable future. More interesting facts, experts on the topic and a visual treat for all the visitors were there for the participants at the exhibition. Energy transition

(Germany and India) related quiz and competitions were held on every day of the exhibition and the winners of each quiz/competition given the prizes.

Ensider Newsletter

EnSider is the Newsletter by Department of Energy Science and Engineering, IIT Bombay launched on 3rd May 2020. The newsletter was released by Prof Subhasis Chaudhuri, Director IIT Bombay through video conference.

The Newsletter includes the highlights from the DESE flagship conference ICEAR 2019. The new strides in Energy system research on Hydrogen and Hydrocarbons are discussed. It gives the insights on "India's 100 GW Solar PV Mission and the Challenges Beyond" from Prof S. P. Sukhatme, former Director, IIT Bombay. Other than that it also contains News, Interviews of professors and students from the department with the photographs of important event

Team Shunya

About Team Shunya:

Team Shunya was the first ever team from India to get selected in the prestigious competition, the European version of Solar Decathlon which took place in the month of June and July, 2014 in Paris. The team has also been selected for Solar Decathlon China 2017.

Vision:

To sustainably meet the growing demand and need for urban housing in India.

To know more about the team and the competition, please visit the following webpages:

1.Team Shunya Website: http://teamshunya.in/

2.Facebook page: https://www.facebook.com/SDE2014Shunya

Energy Club

The Energy Club of IIT Bombay is a student organization started by students of the Department of Energy Science and Engineering in the academic year 2011-2012. The vision of the Energy Club is essentially three-pronged:

a. To bring together IIT students, scholars, alumni and professors of all levels irrespective of discipline, who are interested in energy and sustainability issues.

b. To facilitate students in making a tangible impact on the IIT campus and ensure that it becomes greener, energy-efficient and more sustainable.

c. To initiate, promote and support all technical and non-technical endeavours such as projects, competitions, awareness drives etc. that are have better energy utilization, awareness and sustainability at their core.

For more info, visit their facebook page:

https://www.facebook.com/EnergyClubIITB/

Department Activites



Energy Day



German Energiewende











Research Facilities

- ✤ Fixed Bed Reactor for Study of Underground Coal Gasification
- Updraft gasifier with catalytic cracker
- Hot-wire CFD
- National Centre for Photovoltaic Research and Education
- Solar Energy Research Institute for India and the United States
- Stability and Performance of Photovoltaic
- Bio diesel Plant
- ✤ Fuel cell test station
- ◆ P C Isotherm: For H2 storage behaviour of material
- ✤ SVO fuelled engine
- Grid Integration Lab
- Forbes Marshall lab

A detailed lab names list with faculty/staff incharge and room numbers for DESE can be found on the following link:

https://drive.google.com/file/d/1ud7nTlzEDEeXHBBHLhUTnOAbn9vwjEbM/view?usp=sharing

Achievements



Mayur P. Bonkile (PhD student at DESE) has won Swiss Science Slam" organised by Consulate General of Switzerland in Mumbai in the framework of "Vigyan Samagam". The event took place on May 11, 2019, at Nehru Science Centre Mumbai.



- Prof. Rajesh Gupta, Priyanka Jena, Humaid Mohammed and Sagarika Kumar have received best paper award in R&D category from Indian Society for Non-Destructive Testing, for the year 2018. The award was given by Chairman of Atomic Energy Regulatory Board and sponsored by Industrial X-Ray & Allied Radiographers Pvt. Ltd.
- Prof. Zakir Rather, DESE received the award under the category "IREDA-NIWE Award for Best Research Work in Wind Energy" to recognise, celebrate and reward his achievement and excellence.

- Department of Science and Technology (DST) under AWSAR programme conducted a competition for PhD students for submitting their research story. DESE MSc-PhD student Prasit Dutta, working with Prof. Sagar Mitra received the award under the Best Popular Science Stories category.
- Prof Chetan Solanki and his team's "SoULS Initiative" has won the 1st grand prize in the IEEE's empower a billion lives (EBL) competition, the finals of which was held during sept 28th –oct 1st at Baltimore, USA. The award includes a citation and grand prize of 11ac dollars.

PG Sports

Sr. No.	Event Name	Participants	Position in event
1	Poetry	Abhishek	2 nd runner up
2	Simulcra	Prabhat	Winner
3	Samohan	Bhavik	1 st runner up
4	Online Photo	Chirag	Winner
5	Miss. Personality	Christine	Winner
6	Table Tenis	Jyoti & Team member	4 th position



PG sports





Course Grading

Grading: For every course taken by a student he/she is assigned a grade based on his/her combined performance over the semester in all the assessment sin that course. These grades are described by the letters AP, AA, AB, BB, BC, CC, CD, DD, FF, FR and DX, each of which not only in dicates a qualitative assessment of the student's performance but also carries a quantitative (numeric) equivalent.

Grade	Point	
AP/AA	10	
AB	9	
BB	8	
BC	7	
CC	6	
CD	5	
DD	4	
FF/FR	Fail & repeat	
DX	Insufficient attendance. Repeat.	
DR	Course dropped	

Useful apps

We give you a list of some useful apps that can assist you in knowing Mumbai and the Institute better during your initial phase. It is advisable that you download these in your smart phones and get familiar with them.

1. InstiApp: instiApp is an Android App that gives you details of each and every events happening inside the campus. It also provides you the routes to your destination inside the campus.

2. M-Indicator: It is an efficient offline Android App by the Indian Railways which displays the local train and bus routes and schedules of Mumbai and Pune.

3. OpenVPN Connect: This app helps you to access ASC, MOODLE and other websites which particularly works with IITB network only, when you are out of campus.

4. Mail.ru: This app will help you to handle all the emails of your Webmail account.

Useful links

www.cc.iitb.ac.in		
webmail.iitb.ac.in		
www.asc.iitb.ac.in		
www.moodle.iitb.ac.in		
www.internet.iitb.ac.in		
www.library.iitb.ac.in		
https://gymkhana.iitb.ac.in/~scp/scp/		
http://www.ese.iitb.ac.in/		
https://gymkhana.iitb.ac.in/		
Facebook pages to follow for regular updates		
https://www.facebook.com/iitbpgsports/?ref=br_rs		
https://www.facebook.com/iitbombaysports/?ref=br rs		
https://www.facebook.com/ese.iitb.ac.in/?ref=brrs		
https://www.facebook.com/pgcult/?ref=br_rs		
https://www.facebook.com/iitb.iscp/		
https://www.facebook.com/groups/buysell.iitb/		
https://www.ese.iitb.ac.in/about-us/useful-links		
https://www.ese.iitb.ac.in/news_and_events		

Placement

IIT is the India's foremost industrial leadership development institution. Our Graduates are a combination of rigorous thinking, hard work and fundamentals. It is a well-known fact that per capita, IIT has produced more millionaires than any other undergraduate institution. IIT Bombay placement drive for candidates passing out in 2019 was conducted for a year. It started in July 2018 and ended on June 30, 2019. Interview procedure of phase-1 – the main event of IIT Bombay placement 2019 was conducted between December 01 and December 16, 2018

- ♦ IIT Bombay witnessed a participation of 361 companies including PPOs securing 1,186 offers in 2018-19 placement drive.
- ♦ The highest domestic CTC offered in phase-I placements is Rs 45 lakh per annum.
- ♦ The highest international CTC offered during phase-I of IIT Bombay placement 2019 is USD 1.64 lakh.
- ♦ he highest offers were bagged by the Engineering and technology department with an average package of Rs 18.5 lakh per annum.
- ☆ Top recruiters for 2019 placements in IIT Bombay include Samsung, Adobe, Amazon, Microsoft, TCS, and Qualcomm.

Program	2016-17	2017-18	2018-19
BTech	394	438	475
Dual Degree	189	157	151
MTech	396	403	402
Others	135	119	158
Total	1114	1117	1186

Number of students placed in the last three years

Student Wellness Centre

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. It is important to understand that students often lose their focus and give in to these pressures. If not attended to at the right time, this could lead to poor performance - both academically and personally

To help you refrain from losing focus and being unhappy, we as Counsellors encourage you to approach us 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

TELEPHONIC COUNSELING DURING LOCKDOWN

Due to sudden disruption to the ongoing semester and uncertainty about the future during COVID-19 lockdown, we understand you might be feeling stressed. The Student Wellness Centre is with you at this time

In case you wish to talk to a counsellor over phone, kindly contact us on the given numbers during the below-mentioned timings

Timings: 11 am to 1 pm and 4 pm to 6 pm *Mr. Shoukath Ali-* 8590594136/ 817486787

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. The IIT Bombay Gender Cell (GC) inquiries into complaints of sexual harassment through its Internal Complaints Committee (GC-ICC). The GC and GC-ICC strive to work towards an egalitarian environment where men and women are afforded equitable treatment and equality of opportunity conducive to their professional growth.

Office Address

3rd Floor, Main Building,Next to Student Wellness Center,IIT Bombay, Powai, Mumbai - 400076.Extn : 5052

Office Hours:

Monday & Thursday: 10.00 am to 12.00 pm Tuesday, Wednesday & Friday: 3.00 pm to 5.00 pm

You may also write to the gender cell at <u>gendercell@iitb.ac.in</u> in case of any enquiry or any problems that you face.

IITB MAP



Thank You and Welcome DESE ISCP Team



Department of Energy Science and Engineering Indian Institute of Technology Bombay Powai, Mumbai, INDIA - 400 076 Phone: +91-22-2576-7890 (office), 8890 (head) Fax: +91-22-2572-4890 office.ese@iitb.ac.in, head.ese@iitb.ac.in http://www.ese.iitb.ac.in

The handbook is drafted by the ISCP team members of the Department of Energy Science and Engineering.