

Indian Institute of Technology Bombay

Type of the institute: Indian Institute of Technology

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About the Institute:

Indian Institute of Technology Bombay (IIT Bombay) was established in 1958, with the cooperation and participation of the then Government of USSR under UNESCO's technical assistance program. It celebrated its Golden Jubilee in the year 2008-09. During these 50+ years, IIT Bombay has gained reputation for the quality of its faculty and the outstanding calibre of the students graduating from its undergraduate and postgraduate programs. Today, the Institute is recognized as a centre of academic and research excellence offering engineering, science, management and humanities education on par with the best in the world.

Located at Powai, in the metropolitan city of Mumbai, the industrial and economic capital of India, the IIT campus extends over 500 acres of verdant land, nestled between hills and flanked by Powai and Vihar lakes. The Institute has well-equipped laboratories and workshops, and also excellent computational facilities in all the academic units in addition to a central Computer Centre. It also houses one of the finest technical libraries in the country. About 3900+ students are on roll in the undergraduate programs and 5100+ in the postgraduate (including Doctoral) programs. This includes a number of foreign students. The faculty strength is about 550-600.

Fee Structure:

B. Tech./ Dual Degree B.Tech.- M.Tech/ B.S.

A	Onetime fee only	Indian nationals	Foreign nationals
		and OCI and PIO	excluding OCI and
		card holders	PIO card holders
1	Admission Fee	Rs.1400	US\$ 300
2	Grade Card	Rs. 300	
3	Provisional Certificate	Rs. 200	
4	Medical Examination	Rs. 200	
5	Students Welfare Fund	Rs.1000	
6	Modernisation	Rs.1500	
7	Identity Card	Rs.400	
	International Students		US\$ 50
	Association		
	Total	Rs. 5000	US\$ 350
В	Per Semester		
1	Tuition Fee	Rs.100000*	US\$ 2000
2	Examination Fee	Rs. 500	Rs. 500
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3	Registration Fee	Rs. 500	Rs. 500
4	Gymkhana Fee	Rs. 750	Rs. 750
5	Hostel Seat Rent	Rs. 500	Rs. 2500
6	Electricity & Water Charges	Rs. 2500	Rs. 2500
7	Medical Fee	Rs. 1000	Rs. 1000
8	Student Benevolent Fund	Rs. 1000	Rs. 1000
9	Hostel Establishment	Rs. 2000	Rs. 2000
	Charges		
10	Contribution to Hostel Subsidy	Rs.6000	Rs.6000
			US\$ 2000
	Total	Rs. 114750	plus
			Rs. 16750
_	Deposits (onetime fee only)		
-	Institute Security Deposit	Rs. 1000	
_	Library Security Deposit	Rs. 1000	
3	Mess Security Deposit	Rs. 1000	
4	Security Deposit		
	Total	Rs. 3000	US\$ 150
	Annual Insurance Premium	Rs. 126	Rs.126
1-	ayable in Autumn Semester		
_	uly-December) each year]		
Gr	and Total (A+B+C+D)	Rs. 122876	US\$ 2500 plus
			Rs. 16876
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- 1. SC/ST/PwD students are exempted from payment of Tuition fees (B 1). Most Economically Backward students (whose family income is less than Rs. 1 Lakh per annum shall get full remission of tuition fee. Other Economically backward students (whose family income is Rs. 1 Lakh to Rs. 5 Lakh per annum) shall get remission of 2/3rd of the fee.
- * All students shall have access to interest free loan under the Vidyalaxmi scheme for the total portion of the tuition fee payable.
- 2. IIT Bombay reserves the right to revise fee structure in subsequent semesters.
- 3. In addition to the above, every student has to pay per Semester Mess advance of **Rs.** 13000.00 (every semester), Refundable Mess Advance of **Rs.** 2000 and **Rs.** 1000 towards Bus pass (per year).

Academic Structure:

The Institute offers a large number of undergraduate and postgraduate programs in engineering, science, management, design and humanities. This includes B. Tech., M. Tech., 4 year B.Sc., M. Sc., M. Phil., M. Des., M.

Mgmt., Ph.D. and dual degree programs like B.Tech. – M.Tech., M.Sc.-Ph.D., M.Tech.-Ph.D. and M. Phil.- Ph. D. Currently, the Institute has twenty six Academic Units: this includes fourteen departments, one school, six centres and five interdisciplinary programs. These Units constitute the academic fabric of the Institute. The teaching programs are characterized by their flexibility and informality. The strong faculty-student interaction on the residential campus provides opportunity to students to work on seminars, publication and projects sponsored by the industry and national agencies.

IIT Bombay follows a semester system. An academic year (July-April) consists of two semesters, each of approximately 16 weeks duration. The first semester begins in the last week of July and ends by the last week of November. The second semester starts in the first week of January and ends by the last week of April. In each of the two semesters of the first year, a student is required to register for the relevant courses listed in the curriculum for that semester.

Students belonging to the SC/ST category and students who are identified as academically weak at the end of the first semester may be prescribed a specially worked-out Reduced Load Program (RLP). Such students may be required to undergo special courses in case they are found to have inadequate background. In addition, to help students with backlogs, some courses are offered during the summer semester.

The Institute follows a credit system. Credits are allotted to various courses depending upon the number of lectures, tutorials and laboratory hours per week. The student's performance in a course is continuously evaluated throughout the semester and culminates in the award of a Grade on a 10¬ point scale. Performance in a semester is evaluated in terms of the weighted average of grade points secured in all the courses registered in that semester, which is known as Semester Performance Index (SPI). A Cumulative Performance Index (CPI) is the weighted average of the grade points obtained in all the courses registered by the student since the time of joining the Institute.

To students admitted through JEE (Advanced) 2015, IIT Bombay offers the following undergraduate and postgraduate programs:

- · B.Tech.
- Dual Degree (B.Tech. + M.Tech.)
- B.S.

The B.Tech. and B.S. programs consist of eight semesters spread over four years. The Dual Degree B. Tech.-M.Tech. program consists of 10 semesters spread over five years. A B.Tech. degree of the parent academic unit and an M.Tech. degree of a specialization within the parent academic unit is given at the end of fifth year. A "Minor" is awarded to a student for completing, in addition to the minimum requirement of 250 credits, a prescribed set of courses from academic units other than that in which the student is enrolled for the B.Tech. program. Similarly, "Honours" is awarded to students completing a prescribed set of courses and/or project in their own academic units. This structure of academic programs provides flexibility to suit the varied interests of students and helps build multifarious competencies that employers demand besides satisfying the widely varying attitudes, abilities and aspirations of students.

uration (Yrs)	Type of Course	Stream	Academic Program Name	Open	Open- PwD	sc	SC PWD	ST	ST PWD	OBC- NCL	OBC- NCL- PWD	Total
4	B Tech	Engineering	Aerospace Engineering	31	1	9	0	4	0	17	0	62
4	B Tech	Engineering	Chemical Engineering	61	2	18	1	9	0	32	1	124
4	B Tech	Engineering	Civil Engineering	57	2	17	1	9	0	30	1	117
4	B Tech	Engineering	Computer Science and Engineering	53	2	17	0	8	0	29	1	110
4	B Tech	Engineering	Electrical Engineering	29	1	8	1	4	0	17	0	60
4	B Tech	Engineering	Engineering Physics	14	1	5	0	2	0	8	0	30
4	B Tech	Engineering	Mechanical Engineering	58	1	17	0	9	0	30	1	116
4	B Tech	Engineering	Metallurgical Engineering and Materials Science	48	1	13	1	7	1	27	0	98
4	BS	Science	Chemistry	15	1	5	0	2	0	9	0	32
5	DD B Tech and M Tech	Engineering	Electrical Engineering with M.Tech. in Communications and Signal Processing	15	1	5	0	2	0	9	0	32
5	DD B Tech and M Tech	Engineering	Electrical Engineering with M.Tech. in Microelectronics	16	0	5	0	2	0	8	1	32
5	DD B Tech and M Tech	Engineering	Energy Engineering with M.Tech. in Energy Systems Engineering	15	0	5	0	2	0	7	1	30
5	DD B Tech and M Tech	Engineering	Engineering Physics and M.Tech. with specialization in Nano Science	6	0	2	0	1	0	2	1	12
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5	DD B Tech and M Tech		Mechanical Engineering and M.Tech. in Computer Integrated Manufacturing	11	0	3	0	2	0	6	0	22
5	DD B Tech and M Tech	Engineering	Metallurgical Engineering and Materials Science with M.Tech. in Ceramics and Composites	6	1	2	0	1	0	3	0	13
5	DD B Tech and M Tech	Engineering	Metallurgical Engineering and Materials Science with M.Tech. in Metallurgical Process Engineering	7	0	2	0	1	0	3	0	13
Total S	eats	·		442	14	133	4	65	1	236	8	903

The Institute continues to introduce new academic programs and innovation in its academic activities. The Centre for Urban Science and Engineering and the inter disciplinary program in Education Technology are the most recent initiatives.

Rules For Change Branch:

Students are eligible to apply for change of branch/programme after completing the first two semesters.

- 1. The Eligibility Criteria for applying for a change of branch / programme are:
 - (a) completion of the prescribed course credits in the first two semesters
 - (b) no backlog at the end of the first year
 - (c) secured a CPI of:
 - at least 8 for general and OBC category students; and at least 7 for SC, ST and PD category students.
- 2. An eligible student's request for a shift from branch A to branch B will be considered currently valid if any one of the following two sets of criteria are satisfied.

Set 1

(a) the CPI of the student is at least 9	
(b) the strength in branch B, to which a change is being sought, does not exceed its	sanctioned strength
by more than 10%.	

Set 2

- (i) the strength in branch B, to which a change is being sought, does not exceed its sanctioned strength by more than 10%.
- (ii) the strength in branch A, from which a change is being sought, does not fall below its sanctioned strength by more than 25%.
- (iii) there is no student with higher CPI who is currently being denied a change of branch to B due to rule (c).

Among all valid requests, the student with the highest CPI is chosen and a shift performed. However, if a student with CPI x is moved from branch A to branch B then every student with CPI x requesting branch B will be moved to branch B, even if they violate (ii) and (iii) above. If necessary, extra seats will be created to accommodate them.

The above action is performed as long as there are valid requests.

Note: that even though a student has been switched to a lower priority seat earlier due to unavailability of a seat of higher priority, his request may become valid later because of availability of seats.

3

- a. The above rules are applicable with concession in eligibility criteria mentioned in rule 1 for SC / ST / PD students.
- b. Every student has a birth category attribute, which is one of GE, OBC, SC, ST.
- c. A vacant seat that is available for allocation is defined to be one of six different types. The types are i) open, ii) reserved for GE, iii) reserved for OBC, iv) reserved for SC, iv) reserved for ST and vi) reserved for PD.
- d. The additional seats in a branch, limited to maximum of 25% of its sanctioned strength, that
 are made available to students for allocation at the time of change of branch are defined at
 the start of the allocation process to be of type "open" in nature (do not belong to any category).
 There may also be a few vacant seats of type "reserved for category X" at this point in time.
- e. A vacant open seat in Branch B, when allocated to a student in branch A belonging to birth

category X, creates a vacant seat in branch A of type "reserved for category X".

f. A vacant seat of type "reserved seat of category X" is available for re-allocation only to students of birth category X.

- 4. All branch transfers can be effected only once at the beginning of the second academic year. No application for change of branch during the subsequent academic years will be entertained.
- 5. Students will be permitted to change from B.Tech. to Dual Degree Programme in the same department at the end of third and fourth semesters subject to the department's recommendations.
- 6. Students interested in pursuing a career in Mathematics or related fields are encouraged to explore the Integrated M.Sc. in the Department of Mathematics after completing their first year of study.

Faculty:

The basic responsibilities of the faculty are teaching, research, technology development and industrial interaction. IIT Bombay is a leading center of scientific and technical teaching. It helps many educational Institutes for technical education in up gradation of syllabi of courses, laboratories and manpower development. The educational methodology developed at IIT Bombay is transferred on continuous basis to engineering colleges through organized interactions in the form of CEP courses, QIP programmes and implementation of the TEQUIP scheme of MHRD.

The faculty members are engaged in technology development programmes for industries by consultancy projects and CEP courses. IIT Bombay emphasizes both pure and applied research since they often feed into each other.

Education and research are closely dependent on efficient and imaginative management. Participation in the management of the Institute through participation in academic programmes, administrative committees and outreach programmes for industry and educational institutes are some of the major responsibilities of the faculty members of IITB.

Selection of faculty is through a statutorily constituted selection committee which includes external members, Head, Dean and Director. All candidates deliver seminars and they are interviewed by the selection committee for appointment.

In addition to academic excellence, faculty members at IITB are expected to promote a respect for moral values, duties of citizenship and basic human understanding required for leadership. The strength of the faculty lie in their intellectual and academic distinction attained. The best contribution of this Institute would be to educate young people to solve the real problems faced by our countrymen using the technical knowledge they are imparted during their formative years.

Facilities:

IIT Bombay is a residential campus that has all the students and most of the faculty and staff residing on campus. The Institute has 16 students' hostels, which includes separate hostels for women students. Every hostel has modern amenities including a computer room and gym. High speed LAN connection is provided in each room. Students are not permitted to operate and maintain motorized vehicles of any type in the campus except on medical grounds. The Institute also has a very good hospital with OPD and 52-bed in-patient facilities. It includes a pathology lab, dental care, radiology, sonography, physiotherapy, and an operation theatre.

The Student Activity Centre (SAC) provides excellent facilities for sports and cultural activities. Sports facilities include a swimming pool, tennis, badminton, volley ball, basket ball and squash courts and vast playgrounds for field games. Wildlife camps and trekking are popular off campus activities. Cultural activities on the campus are fostered by film clubs, classical music societies, debating and drama clubs and a hobbies club. Special labs and facilities exist to support technical activities and innovation support is provided for participation in a variety of international technical competitions. The Institute also has strong NSS/NSO programs. The Entrepreneurship Cell guides students and promotes a spirit of entrepreneurship by organizing competitions, and lectures and workshops by eminent entrepreneurs. A business incubator also provides opportunities to students to develop products and technologies, and to generate their own business ventures. The Cell for Human Values – a unique feature of IIT Bombay, enriches the minds of students through its various activities.

A Faculty Advisor is specially appointed to look after the academic performance and matters related to SC/ST students. A Foreign Students' Advisor helps and guides the students from abroad in academic and non-academic matters.

Student Life at Institute:

The 550 acres of lush green campus, situated right in the heart of the financial capital of India, IIT-Bombay is

considered to be the Mecca of extra-curricular activities. Apart from being the best technical school in the country and one of the top few globally, IITB creates experiences that students don't forget. Students are encouraged and supported to submit research papers and participate in national and international conferences.

A major attraction of IITB is its distinguished faculty. The faculty at IITB is one of the finest among the Indian vocational institutes. Most members of the faculty are achievers in their own right as well as excellent teachers and mentors. Most of the professors here are research scholars themselves and are deeply involved in their own subjects of interest. It is this attitude of our professors that really makes them special and engaging for our students.

Life at IIT-Bombay is an amalgamation of fun and studies. While the classes and assignments manage to keep us busy during the morning and late at nights respectively, the rest of the day allows us to pursue our interests. Some of us find peace in playing cricket and football in the hostel grounds, while some of us head to the Student Activity Centre to play Badminton or go for a swim. The few who are not into sports are either busy with the IIT-B club activities or catching up with some sleep.

IIT-Bombay hosts Mood Indigo (Asia's largest College Cultural festival) and Techfest (Asia's largest Technical and Science festival) which shows it diversified and glorious culture.

In IIT-Bombay all students resides in hostel which adds new dimensions to uber cool campus life. Birthday celebrations and inter and intra hostel events adds fun to the campus life. To sum up Studying at IITB can truly be a life changing experience.

Financial Assistance:

UNDERGRADUATE SCHOLARSHIP

The Institute offers the following scholarships to undergraduate students:

Institute Scholarships	Private Scholarships	Govt. Scholarships
1.Institute Merit-sum- Means	Scholarships instituted by private trusts/ organisations	National Scholarships (all states)
2.Free Tuition	1 °	2. National Talent Search
Free Messing facilities (SC/ST)		Scholarship (NTS)
4. M.Sc Ph.D. Dual Degree	, ,	3. Scholarship for M.Sc. students

For more details, visit http://www1.iitb.ac.in/newacadhome/scholar.jsp

Training & Placement:

IIT Bombay is the most preferred academic institute to a large number of organizations for recruiting outstanding employees with immense potential as future leaders. These organizations from both within India and abroad, are excited about the capability, intellect and professional readiness displayed by our students. The most frequently cited praise from these organizations for our students include their ability to learn quickly, versatility, performance as team players, excellent analytical skills, and most important the positive attitude they bring to their jobs.

The institute offers all graduating students an opportunity to participate in the campus placement program. More than 320 recruiting organizations participated in the IIT Bombay campus placement process during the year 2013-14. For the year 2014-15, more than 400 recruiting organizations are expected to participate in the campus placement program.

IIT Bombay has excellent facilities for campus recruitment and strives to make the best possible match between recruiters and students. IIT Bombay was ranked number 60 in the world for "Employer Reputation" in the 2014 QS World University Ranking.

Industry And Alumni Relations:

The Institute recognises alumni who have distinguished themselves through their work and have done the Institute proud. The Distinguished Alumnus Awards have been instituted for this purpose. In addition to this, IIT Bombay has instituted the Distinguished Service awards for alumni who have rendered special services to the cause of the betterment of the institute. The institute also involves the alumni in its educational and research activities, whenever possible, by inviting them to participate on its advisory boards as visiting faculty or as guest speakers. Our alumni has responded whole-heartedly by supporting the institute with the most generous endowments, leading to the establishment of schools, laboratories, scholarships, chairs and various infrastructure developments.

Recreational/Extra Curricular activities:

The annual Science & Technology festival of IIT Bombay, Techfest, which was started in 1998, is held in the month of January every year and is the largest of its kind in Asia. It comprises various events like competitions, exhibits and talks from guest speakers from around the world. Techfest 2009 was also the first event of its kind in

India to conduct its events in other countries.

Apart from these festivals, various other engineering streams based festivals are also being organised to motivate students towards Science and Technology. These include Radiance (Mechanical Engineering), Zephyr (Aerospace Engineering), AZeotropy (Chemical Engineering), Padarth (Metallurgy and Material Science Engineering), Aagomani (Electrical Engineering), GeneRations (Biosciences & Bioengineering) and Aakaar (Civil Engineering).

Cultural activities like dramatics, Speaking, Literary Arts, Music and Fine Arts also mark an important feature in the life of a student of IIT Bombay. Speaking and Literary Arts have always been very popular in the student community with students actively participating in quizzing, writing and debating activities. IIT Bombay has won the prestigious National Law School Parliamentary Debating Tournament.

The annual cultural festival Mood Indigo, usually held in the month of December is the best event hosted by any student body and the largest of its kind in Asia. The most attractive feature of this 4-day event are the influential personalities who have graced the festival like R D Burman, Aamir Khan, Sir Mark Tully, Sachin Tendulkar, Porcupine Tree, Simple Plan, Mike Portnoy and many more. The organization is known for holding the best cultural competitions, games and musical concerts to draw out the best talent in the country.

Location and Accessibility:

IIT Bombay is located at Powai, which is an eastern suburb in the North-Eastern part of Mumbai.

<u>Mumbai</u> is in the form of a long narrow island, almost a peninsula, thrusting south wards into the Arabian Sea. It can be broadly divided into four zones.

South Bombay (Colaba, CST, Fort, Chruchgate, Nariman Point etc.)

Central Bombay (Dadar, Bombay Central, Worli etc)

The Western suburbs (Bandra, Juhu, Andheri, Borivali etc)

The Eastern Suburbs(Kurla, Chembur, Ghatkopar, Mulund, Kanjur Marg, Vikhroli etc.)

There is also New Bombay (Vashi, Turbhe etc.) across Thane Creek on the mainland.

Public Transport

Mumbai has one of the most efficient and reliable public transport network. One can travel by Autorickshaws / Taxis to reach IIT from the nearest stations (Autorickshaws, however do not go further south than Sion and Bandra). For longer distance, you can use either the BEST Bus Network or the Mumbai Local train System.

Suburban Railway Transport

Those coming by Central Railway Suburban train will have to get down at Mulund, Bhandup, Kanjur Marg, Vikhroli or Ghatkopar which are the nearest stations from IITB. If you are coming by the Western Railway Suburban train you will have to get down at Andheri, Bandra, Goregoan. BEST Bus are available as below:

NAME OF PLACE	BUS NUMBERS
Mulund(W)	307, 346, 425, 396, 398,
Bhandup(W)	460, 422, 424, 461
Kanjur Marg(W)	700, 722, 727, 701
Vikhroli(W)	392,382,337
Ghatkopar(W)	392,382.337
Borivali(E)	461, 398, L1
Goregaon(E)	460,489,424
Jogeshwari(E)	461,445
Andheri(E)	396,336,392,307
Bandra(E)	422,424

AIRPORTS

International flights land at Sahar Airport which is about 7 kms from IIT. The Domestic Airport- Santa Cruz is about 10 kms. Prepaid taxis are available at the Airports. Autorickshaws are also available for IIT.

Academic Programwise Seats breakup:

Academic Program Code	Academic Program Name	OPEN	OPEN- PwD	SC	SC- PwD	ST	ST- PwD		OBC- NCL- PwD	Total	State/All India Seats
4101	Aerospace Engineering (4 Years, Bachelor of Technology)	31	1	8	1	4	0	17	0	62	All India
4107	Chemical Engineering (4 Years, Bachelor of	61	2	19	0	8	1	32	1	124	All India

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	Technology)										
4109	Civil Engineering (4 Years, Bachelor of Technology)	57	2	18	0	9	0	30	1	117	All India
4110	Computer Science and Engineering (4 Years, Bachelor of Technology)	53	2	17	0	8	0	29	1	110	All India
4111	Electrical Engineering (4 Years, Bachelor of Technology)	29	1	9	0	4	0	16	1	60	All India
4117	Engineering Physics (4 Years, Bachelor of Technology)	21	0	6	1	3	0	11	0	42	All India
4125	Mechanical Engineering (4 Years, Bachelor of Technology)	58	1	17	0	8	1	30	1	116	All India
4128	Metallurgical Engineering and Materials Science (4 Years, Bachelor of Technology)	47	2	14	0	8	0	26	1	98	All India
4201	Chemistry (4 Years, Bachelor of Science)	16	0	5	0	2	0	8	1	32	All India
4202	Economics (4 Years, Bachelor of Science)	12	1	4	0	2	0	7	0	26	All India
5219	Electrical Engineering with M.Tech. in Communications and Signal Processing (5 Years, Bachelor and Master of Technology (Dual Degree))	16	0	4	1	2	0	9	0	32	All India
5221	Electrical Engineering with M.Tech. in Microelectronics (5 Years, Bachelor and Master of Technology (Dual Degree))	16	0	5	0	1	1	9	0	32	All India
5226	Energy Engineering with M.Tech. in Energy Systems Engineering (5 Years, Bachelor and Master of Technology (Dual Degree))	15	0	4	1	2	0	8	0	30	All India
5235	Mechanical Engineering and M.Tech. in Computer Integrated Manufacturing (5 Years, Bachelor and Master of Technology (Dual Degree))	10	1	3	0	2	0	6	0	22	All India
5244	Metallurgical Engineering and Materials Science with M.Tech. in Ceramics and Composites (5 Years, Bachelor and Master of Technology (Dual Degree))	7	0	2	0	1	0	2	1	13	All India
5245	Metallurgical Engineering and Materials Science with M.Tech. in Metallurgical Process Engineering (5 Years, Bachelor and Master of	7	0	2	0	1	0	3	0	13	All India

Technology (Dual Degree))										
Total Seats	456	13	137	4	65	3	243	8	929	