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.
<table>
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<th>Page No.</th>
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<td>Done</td>
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<tr>
<td>Bibliography</td>
<td>Done</td>
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<td>Photo Gallery</td>
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</tbody>
</table>
Hello, Friends!

We hope you are just excited to be a part of IIT Bombay as we are. Hearty congratulations on this incredible feat! Institute Students Companion Program (ISCP) welcomes you to one of the most resourceful campuses in India. The next two or three years are going to be the most memorable, impactful, insightful and life changing years which will fly past. We hope you imbibe as much as you can and more from your peers, seniors, faculty and staff. Here’s to your first glimpse of ISCP, the backbone of your journey through the mecca of learning.

ISCP is a program within IIT Bombay Post Graduate (PG) student community. Its primary objective is to develop an atmosphere of cordial interaction amongst the PG entrants and the PG seniors. It will encourage the flow of information, knowledge, and sharing of experiences among the students.

Email-iscp@iitb.ac.in
Overall Coordinators
Institute Student Companion Programme (2018-19)
Anwesha Lahiri | Sumedh Dey | Basudev Behera
+91-9007766390 | +91-9432152174 | +91-7008955255
The Student Companion Program is specifically designed to cater the needs of PG community of IIT Bombay. The post graduate student in the institute faces various issues which are typically non-academic and coalition of academic in nature. These issues need to be addressed; the ISCP provides a platform for the student to get help at formal as well as informal lines. ISCP strives to provide a senior student companion as a mentor to all newly admitted students.

What to expect from a Student Companion:

- Initial information about campus, courses, academics and extracurricular activities.
- Support in case of any problem or difficulty.
- Organization of Various academic and non-academic activities for student’s development.
- Continuous interaction and feedback from students on their needs and requirement.

The following is our department team:

**Department Coordinator:**

Dattatraya Nagale (Maths)  
dattatraynagale@gmail.com  
9028267111, 9518588352

Rajesh Prajapati (ASI)  
rajesh.kumar10495@gmail.com  
8052615358, 9653609133
## Student Companion:

### Mathematics:

<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garima Thareja</td>
<td><a href="mailto:garimath96@gmail.com">garimath96@gmail.com</a>, 9871474469</td>
</tr>
<tr>
<td>Rakesh Saini</td>
<td><a href="mailto:rakeshsainijpr111@gmail.com">rakeshsainijpr111@gmail.com</a>, 8741034638</td>
</tr>
<tr>
<td>Saransh lohiya</td>
<td><a href="mailto:lohiyasaransh@gmail.com">lohiyasaransh@gmail.com</a>, 7897610090</td>
</tr>
<tr>
<td>Upasana kalra</td>
<td><a href="mailto:kalraupasana17@gmail.com">kalraupasana17@gmail.com</a>, 8527115503</td>
</tr>
</tbody>
</table>

### Applied Statistics and Informatics:

<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ameya Kulkarni</td>
<td><a href="mailto:ameyakulkarni01@gmail.com">ameyakulkarni01@gmail.com</a>, 9767202279</td>
</tr>
<tr>
<td>Kodandam Padmavati</td>
<td><a href="mailto:kodandampadmavathi@gmail.com">kodandampadmavathi@gmail.com</a>, 8297755027</td>
</tr>
<tr>
<td>Ranjan Sharma</td>
<td><a href="mailto:ranjansharma.jal703@gmail.com">ranjansharma.jal703@gmail.com</a>, 9614167129</td>
</tr>
<tr>
<td>Ravindra Chaurasiya</td>
<td><a href="mailto:ravindrachaurasiya2015@gmail.com">ravindrachaurasiya2015@gmail.com</a>, 7570875157</td>
</tr>
<tr>
<td>Shravana Kumar Yadav</td>
<td><a href="mailto:shravanakryadav@gmail.com">shravanakryadav@gmail.com</a>, 7045515213</td>
</tr>
<tr>
<td>Vansh Sachdeva</td>
<td><a href="mailto:vanshsachdeva14@gmail.com">vanshsachdeva14@gmail.com</a>, 9871830580</td>
</tr>
</tbody>
</table>

Feel free to contact anybody from us.
History:

The Department of Mathematics had its humble beginnings in the year 1958 from the premises of SASMIRA (Silk and Arts Silk Mills Research Association) Building in Worli, Mumbai. The faculty strength of Department of Mathematics had already grown to 15 in 1960 and it was further increased to 18 in 1962. The Department was first housed on the top floor of the present Main Building. It was subsequently moved to the TCS Building (the present day Building of Estate Office) along with some other Departments. The Department moved to the building where it is presently housed in the year 1966. The Senate of IIT Bombay gave its approval for the very first M.Sc. (Mathematics) programme on 18 August 1967, and the programme started in July 1968. This M.Sc. (Mathematics) programme continued (with minor modifications from time to time) till 1976-1977. The first time such a programme appeared in the Courses of Study Bulletin of the Institute seems to be in 1975-76. In the academic year 1977-78, a new M.Sc. programme called ‘M.Sc. in Mathematics with Specialization in Computer Science’ was introduced. It coexisted with the earlier M.Sc. (Mathematics) programme.

Till the academic year 2003-2004, the department used to conduct its own entrance test for admission to its M.Sc. programmes. Since the academic year 2004-05, the admission is through a national examination called JAM (Joint Admission to M.Sc.) which is conducted jointly by all the seven IITs.

Vision:

Major goal of the department is to be among the best mathematics departments in the country and to establish an international reputation as a centre for research and teaching in mathematics. Since its establishment, the Department of Mathematics has developed gradually and advanced in various directions. For the continued future growth of the Department, some goals have been outlined along with some of the
challenges faced. Goals include attracting academics of high calibre and eminent researchers to the Department’s faculty; and motivated and talented students to the numerous programmes of the Department. Research goals aim to create an environment that supports exhaustive and unprecedented research. Teaching goals work towards building inter-disciplinary programmes with other departments within IIT Bombay. They will also help to groom a well trained student as scientific manpower for quality national as well as international programmes. The research pursued in the Department of Mathematics includes a quite wide spectrum of interests in both mathematics and statistics. Major research areas include Algebra, Analysis, Combinatorics, Number Theory, Probability, Statistics and many others. Although the Department has made quite a progress in meeting its goals, few key challenges remain. Provision of good library facilities for all students and members of the faculty is still a challenge. Provision of efficient administrative support systems and placement of Departmental graduates in suitable positions in industry and academia is an important task to be looked upon. A sustained fiscal commitment over several years is necessary to refurbish the infrastructure of the Department. The current constraints of lack of adequate space and administrative support are also serious

**Faculty:**

We are proud to have among us distinguished faculty members, as a part of the department. They are responsible for shaping the department to what it is today and are definitely, the pillars that keep us standing. They are incredibly kind and generous, and interaction with them is always joyful and motivational
Post Graduate programmes offered by Department

Ph.D. PROGRAMME IN MATHEMATICS offers an exciting and unique opportunity to students for pursuing research in the following areas:

- Pure Mathematics
- Applied Mathematics & Scientific Computing
- Probability & Statistics
- Theoretical Computer Science

Under this programme students undergo a substantial amount of relevant course work consisting of advance topics in Algebra, Analysis, Topology, Numerical Analysis, Solid & Fluid Mechanics and Statistics, followed by research work under the supervision of an Advisor, who is decided by the Department, taking into account the aptitude, the needs and the preferences of the student.

M.Sc-Ph.D Dual degree Programme Students in the M.Sc. programmes (Mathematics and ASI) in the IIT Bombay Mathematics department will be allowed entry into the PhD programme if they meet the following requirements.

(i) The student must have a CPI of 7.5 at the end of third semester.

(ii) The student must have no course backlogs.

(iii) The student must pass the Ph.D. entrance examination and interview conducted in December.

M.Sc Programme In Mathematics And Statistics Statistical analysis, modeling and inference are required in almost all areas of the natural and social sciences, technology and industrial research and development. There has always been a demand for trained graduates and specialists in different branches of Statistics.
Some special awards given by the Department:

The Department of Mathematics has a number of awards to encourage and highlight academic achievement amongst its students.

1. **Excellence in PhD. Thesis award** - This award is given annually to a PhD student who has defended her/his thesis in the two academic years prior to the convocation in which the award is conferred. The award recognizes the strength of the student's Phd thesis.

   The awardee for 2017 is Dr. Satya Prakash Singh.

2. **Prof. Prabhulal Bhatnagar Memorial Prize** - This award is for PhD students in the areas of Fluid Mechanics and Applied Mathematics who have defended her/his thesis in the two academic years prior to the convocation in which the award is conferred. The award recognizes the strength of the students' Phd theses.

   The awardees for 2017 are Dr. Mohammad Zafar and Dr. Gouranga Mallik.

3. **Prof. M N Gopalan Prize** - This award is for outstanding performance as an M.Sc. student in the Applied Statistics and Informatics programme.

   The awardee for 2017 is Hitaishi Arora

4. **Mrs. Rama Mathur Memorial Prize** - This award is for securing the highest CPI among all students in a batch of the M.Sc. Mathematics programme.

   The awardees for 2017 are Deepanshu Verma (Batch of 2015) and Sachin Garg (Batch of 2016).
5. **Prof. P V Sukhatme Memorial Prize** - This award is conferred upon the top two M.Sc. students (in terms of CPI) in the graduating batch of the Mathematics and Applied Statistics and Informatics programmes.

The awardees for 2017 are:

(a) Mathematics: Deepanshu Verma and Shidhesh Dattatrya Supekar
(b) Applied Statistics and Informatics: Hitaishi Arora and Parth Dhardhesh Dave
**Mathematics Association**

**President of Mathematics Association**
Prof. Neela Nataraj
Email: neela@math.iitb.ac.in

**Association Secretary**
Prof. Ananthnarayan Hariharan
Email: ananth@math.iitb.ac.in

**Association Treasurer**
Prof. Preeti Raman
Email: preeti@math.iitb.ac.in

**General Secretary**
Shefali gambhir
Email: shifz089151@gmail.com
Mobile No :9987423475

**Work description:** Ensures proper functioning of the entire council. Be it a sport, educational or a cultural event, GS takes up the responsibility for its organisation and smooth execution. Coordinates with the council members for efficient execution of all department
**Assistant treasurer**

Apurba Sarkar

Email: apurba1995sarkar@gmail.com

Mobile: 9635825996

**Work description:** I will optimize the budget for departmental events and try to provide sufficient funds for departmental events.

---

**Cultural Secretary**

Taniya Sarkar

Email: taniyasarkar713@gmail.com

Mobile: 8420244920

**Work description:** I have the responsibility of managing any departmental cultural events as well as the institute level cultural activities of the students of our department. I will also be representing the Mathematics department in the PG Council.

---

**Sports Secretary**

Saransh lohiya

Email: lohiyasaransh@gmail.com

Mobile: 7897610090
**Work description**: My duty is to ensure the participation of department in every general championship and attend every PG sport meeting and will raise the department issues and ensure their rectification.

**Alumni Secretary**
Rajesh kumar
Email: rajeshkumar609388@gmail.com
Mobile: 8708343302

**Work description**: will work as interlink between the students and alumni of our department.

**Web and Design Secretary**
Prasanjit Dubey
Email: prasanjit@math.iitb.ac.in
Mobile: 8910093437

**Research Scholar Representative**
S. VENKITESH
Email: vsi@math.iitb.ac.in
Mobile: 8828290609

**Work Description**: To represent the research scholars' of the department in any academic or non-academic matters in the appropriate forum.
**Work description:** As Class representative my work is to help student and solve their problem occurs during the Semester.

---

**Class Representative (Maths)**
Makadiya Deepkumar Hasamukhbhai
Email: deepmakadia25.dm@gmail.com
Mobile: 9586795271

**Department Placement Coordinator (ASI)**
Devesh Agarwal
Email: 78619devesh@gmail.com
Mobile: 8976655154

**Department Placement Coordinator (Mathematics)**
Megha Berlia
Email: mberlia222@gmail.com
Mobile: 9582077271

**Work Description:** Bridge the gap between the students and the placement cell. To conduct preparatory placement activities, ensure that the students are up to date with the placement procedure and make sure that the student opinions reach the placement cell.
Students of Mathematics department have always excelled in cultural activities as well as academics. For enthusiastic PG students, there are every possible events in PG Cult from meme making competition to quilling, speaking and literary arts, photography and fine arts events to more popular events like dance, singing, drama and film making.

We participate as a department together. And apart from PG Cult, we also have various institute level cultural events throughout the year. This year we had cultural night at the department level in which both faculty members as well as students participated and performed.

So buckle up, ace all your courses and also have fun by exploring the amazing opportunities we have here in IIT BOMBAY.

List of achievements in PG Cult 2017-18:

- Bagged overall third prize as a department
- Came first in PG CULT phase 2
- Came first in speaking arts genre
- Came first in Battle of Bands Competition
- Came third in Film Making Competition
- Taniya Sarkar won the Freshmen of the Year Award
- And many more in individual.
IIT Bombay is a place where sports and academics both are equivalent and that's why, we are inter IIT winner. PG sports producing a bunch of interiit players every year and numbers are increasing every year. PG sports is the event to witnesses the confluence of sports enthusiasts and celebrates excellence, endeavour and team spirit.

PG sports conduct a department wise general championship (GC) every year among the PG students in almost every game and at the end of the every GC event, PG sports announces the gem of the GC on the basis of performance of students and a point based system which determine the standing of every department in the PG GC and at the end of the year it determines the winner of PG-GC. Department Sports secretary acts as the representative of department in PG sports.

List of achievements in PG Sports 2017-18:

★ Bagged overall fifth prize as a department
★ Bagged silver medal in Cricket GC.
★ Bagged bronze medal in football GC.
★ Bagged bronze medal in Girls Badminton GC.
★ Ratan Kirti won Inter IIT gold, inter IIT best table-tennis award and IIT Bombay freshman of the year.
IIT Bombay has proved to be the most preferred destination for aspiring technologists from across the country. IIT Bombay has produced many illustrious alumni, whose contribution at national and international level has been significant. The alumni of IIT Bombay are often sought after for covered positions in the realm of business, academics and research. IIT Bombay consistently maintains an exemplary recruitment record. Our graduates and Post graduates have been selected by leading national and multinational corporations and research institute.

We have two Internship coordinators from the first year and two department placement coordinators from second year who represent Mathematics department in Placement Cell. Also, this year we have Company coordinator from our department in the placement cell.

**We have placement in the field of analytics, consulting and academics**  
**Many of our student went to prestigious institute in India for doing Ph.D.**

**Following is list of placed student in year 2017-18**

<table>
<thead>
<tr>
<th>Student</th>
<th>Company/Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ankon Ghosh</td>
<td>PWC</td>
</tr>
<tr>
<td>Ashima Garg</td>
<td>Sutherland</td>
</tr>
<tr>
<td>Atul Dubey</td>
<td>United Health Group</td>
</tr>
<tr>
<td>Brinti Datta</td>
<td>Voltaire Capital</td>
</tr>
<tr>
<td>Chaman Kumar Sahu</td>
<td>IIT Kanpur (Ph.D)</td>
</tr>
<tr>
<td>Kamanashis Mondal</td>
<td>United Health Group</td>
</tr>
<tr>
<td>Kavish Kumar</td>
<td>KPMG</td>
</tr>
<tr>
<td>Name</td>
<td>Company</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>Mamta Sansanwal</td>
<td>ANZ Bank</td>
</tr>
<tr>
<td>Piyush Kumar</td>
<td>Tata Capital</td>
</tr>
<tr>
<td>Prashant Agarwal</td>
<td>HSBC</td>
</tr>
<tr>
<td>Projesh Basak</td>
<td>PWC</td>
</tr>
<tr>
<td>Raghavendra pandey</td>
<td>Sutherland</td>
</tr>
<tr>
<td>Rajesh Prajapat</td>
<td>United Health Group</td>
</tr>
<tr>
<td>Rohit Pandey</td>
<td>Accenture solution</td>
</tr>
<tr>
<td>Rohit Rawat</td>
<td>SBI Mutual Funds</td>
</tr>
<tr>
<td>Rudra prasad das</td>
<td>ANZ Bank</td>
</tr>
<tr>
<td>Sachin Garg</td>
<td>Tata Capital</td>
</tr>
<tr>
<td>Samya Chatterjee</td>
<td>Accenture service</td>
</tr>
<tr>
<td>Sangita Jotder</td>
<td>M76</td>
</tr>
<tr>
<td>Saurav Bhunia</td>
<td>Accenture service</td>
</tr>
<tr>
<td>Sayan Dutta</td>
<td>KPMG</td>
</tr>
<tr>
<td>Sayan Dutta</td>
<td>IIT Bombay (Ph.D)</td>
</tr>
<tr>
<td>Snigdha Roy</td>
<td>ANZ Bank</td>
</tr>
<tr>
<td>Sourabh Agarawal</td>
<td>United Health Group</td>
</tr>
<tr>
<td>Souvik Chatterjee</td>
<td>Accenture Service</td>
</tr>
<tr>
<td>Sowmen Barman</td>
<td>Advanced risk analytics</td>
</tr>
<tr>
<td>Subhadip Pual</td>
<td>Walmart Labs</td>
</tr>
<tr>
<td>Sumukhi Mishra</td>
<td>Accenture Service</td>
</tr>
<tr>
<td>Sundarm Chauhan</td>
<td>United Health Group</td>
</tr>
</tbody>
</table>

“Hard work will always lead to success”
1 Mathematics Olympiad:

Mathematics Olympiad was the most important and wide-spread activity of the Association. It was a competitive examination conducted at the either end of January or Start of February each year. This is a talent search event involving schools and colleges from all over India. The first Mathematics Olympiad was held in 1979 and last was held in January 2016. Last year this was not happened but we are hoping that this should happen this year. If this happen then it will be a great opportunity for the students to experience the atmosphere of Mathematics Olympiad.

2 Tech-Connect:

This year instead of Mathematics Olympiad, our department participated in the Techfest’2k17. In the Techfest’2k17, we have our Mathematics Stall whose name is “A Room of Epsilon”.

A Room of Epsilon
Important Website:

1. IITB Internet Access:
   - Link: https://internet.iitb.ac.in/
   - Purpose:
     Your roll number will be provided to you during institute orientation with welcome kit. You should remember your roll number. You will get a LDAP Id which you can use to browse the internet.

2. Application Software Centre(ASC):
   - Link: https://asc.iitb.ac.in/
   - Purpose:
     This website is the main interactive website for a student for all of his/her administrative requirements. From paying your fees, to check your grades, all can be done on this website. The website also has links to all other websites of the institute. Some of the most important facilities offered by this website are given follows:
     - Payment of Fees
     - Register and de-register from courses
     - Checking previous year’s grading statistics for any subject
     - Brief contents of all subjects being offered
     - Own personal details
     - Checking of your own academic performance

3. Moodle:
   - Link: https://moodle.iitb.ac.in/
   - Purpose:
     This website provides academic interaction between students and faculty for all courses enrolled by student. You can download study material/books/notes uploaded by A
The website also offers interaction platform where you can communicate with the Professor and other students in the same course on any subject related matter.

4. Central Library:
   - Link: https://www.library.iitb.ac.in/
   - Purpose:
     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.

5. GPO:
   - Link: https://gpo.iitb.ac.in/src/login.php?secure_login=yes
   - Purpose:
     This is your personalized e-mail in IIT Bombay. Every student gets one when he\she enrol. Along with normal mail, here you also get alert for registration of various event, fee payment and any broadcast on moodle among others. The general email id looks like [yourroolnumb]@iitb.ac.in

6. Ganit Mail:
   - Link: https://math.iitb.ac.in/webmail/src/login.php
   - Purpose:
     This will be your another mail which will update you about the event happening in Mathematics department. You can use it to contact with the professors in Mathematics department or for any official work in department. General Ganit id will looks like [userid]@math.iitb.ac.in

7. Mathematics department
   - Link: https://math.iitb.ac.in/
   - Purpose:
     This is our department’s website. It has the contact details of all faculty members, staff and student of our department. It also display the academic research areas in our department.
CPI system:

IIT Bombay follows grade point system instead of percentage system which is known as CPI system (Cumulative Performance Index). For every course taken by the student, he/she is assigned a letter grade based on his/her combined performance in all the assessments. These grades are described by the following letters and corresponding grade points.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP</td>
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</tr>
<tr>
<td>AA</td>
<td>10</td>
</tr>
<tr>
<td>AB</td>
<td>9</td>
</tr>
<tr>
<td>BB</td>
<td>8</td>
</tr>
<tr>
<td>BC</td>
<td>7</td>
</tr>
<tr>
<td>CC</td>
<td>6</td>
</tr>
<tr>
<td>CD</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD*</td>
<td>4</td>
</tr>
<tr>
<td>FR**</td>
<td>Fail &amp; repeat</td>
</tr>
<tr>
<td>DX***</td>
<td>Short attendance</td>
</tr>
<tr>
<td>II#</td>
<td>Incomplete</td>
</tr>
<tr>
<td>DR</td>
<td>Dropped</td>
</tr>
<tr>
<td>AU##</td>
<td>Audit</td>
</tr>
</tbody>
</table>

*DD Grade:* Minimum passing grade in a course is DD.

**FR Grade**

The letter grades FF and FR shall be treated as failure grades. FR grade will be awarded in case where in the opinion of the instructor, the student hasn’t had adequate academic exposure to the course and should therefore repeat the course. FR grade may be awarded in case of minor malpractice in examination/assessments. Re-examination may be permitted for the course if he/she got FF grade in that course. After such a re-examination if student passes in that course, he/she will be awarded the maximum grade of DD in that course. If a student does not take or fail in the re-examination, he/she will be awarded the grade FR. A student getting FR has to re-register for the same course if it is core subject.
**DX Grade**

The grade DX in a course is awarded if a student does not maintain the attendance requirement in the Lecture/tutorial classes. The DX grades may also be awarded to the students having bad or incomplete in-semester records on non medical reasons. The DX grade will be declared in the first week of November for the Autumn Semester Courses and in the first week of April for Spring Semester courses. A student with DX grade in a given course is not permitted to take the semester end examination in that course. He/she is also not eligible for 50% marks re-examination in that course. Such student has to re-register for the same course whenever offered. DX does not count in CPI/SPI however it will be counted as a backlog.

**Incomplete Grade(II)**

Grade II is awarded in a lecture courses if a student has satisfactory in semester performance, but has not appeared for the end-semester examination on medical grounds. The student is entitled for 50 marks re-examination given at the end of the particular semester. II grade will be converted into performance grade (depending on the overall performance in the course) after the re-examination.

**Audit Course**

The student can register for a course as audit and shall be awarded the grade AU if they fulfil the minimum of 80% attendance and duly satisfactory in-semester performance as prescribed by the instructor. The instructor shall include such AU grades in the final grade report for that course. If the student does not qualify for the grade AU, it will be assumed that the course has been dropped by that student.

**Dropping of course:** If any student finds his course load to be heavy then he can drop one or more of his courses within a stipulated time. Even the core
courses can also be dropped in condition of that he/she will complete the dropped course within his degree tenure. In case of electives the students need not to take the same course, he/she can select any other elective(S) as well. Such courses will appear in the transcripts and final grade card with ‘W’ grade(withdrawn Grade). These courses will have no impact on CPI. The last date for dropping a course by the student will be two weeks after the mid-semester examination for the semester long courses and one week after the mid semester examination for the half course courses. The last date for course drop will be included in the academic calendar.

What are Credits?

Every course you take has a credit attached to it. For instance a 8 credit course 4 hours of lectures per week and similarly has more effect on the final CPI, than say a 6 credit course. Courses in the first year will be compulsory. Electives will be available from second year onwards.

How is CPI calculated?

Let’s ease through this process by taking a basic example. There are five courses in the first semester of a M.Sc Mathematics student out of which four are 8 credit courses and one is 6 credit course. Suppose he/she gets the following result AA(10), AB(9), BB(8), BC(7) in 8 credit courses and AA(10) in 6 credit courses.

Now, We want to calculate CPI and the formula for this

\[ CPI = \text{weighted mean of grades you obtain} \]

hence

\[ CPI = \frac{[10*8+9*8+8*8+7*8+10*6]}{[8+8+8+8+6]} \]

\[ = \frac{332}{38} = 8.73. \]

Thus, your CPI is 8.73 out of 10.
Students are expected to practice highest ethical and moral standards. In order to maintain the sanctity of these standards, students are expected to sign a document called as Department Academic Honour code. Violation of Academic honour code may attract the following consequences:

- A DX grade will be awarded for proxy in attendance.
- A student found copying in an assignment/project is given a zero in the assignment/project and is further given a one grade penalty. The same disciplinary action is taken against both the person copying and the person from whom the material was copied.
- If a student is found passing chits/supplements/other unauthorized material to other students during exam/quiz the penalty is an FR grade.
- If a student is found using a mobile phone during the exam the penalty is an FR grade.
- If during evaluation of answer scripts of an exam, it is detected that a student A has copied from another student B, the disciplinary action taken against both the students is an FR grade.
- Student will not be allowed to take up any administrative post/Association post such as Class Representative (CR), General Secretary. Treasurer, etc.
- The disciplinary action taken against repeat offenders is suspension for one semester.
Always carry your ID-card

Download the M-indicator App on your phone to find your way around Mumbai. It provides timings of local trains and buses, along with auto and taxi fares.

The nearest station to the IITB campus is Kanjurmarg and it is located on the central line of the local train network.

Download the InstiMap app on your phone to find your way around campus

Join facebook groups like Freshmen Group, IITB Food Recommendations [while you get adjusted to mess food], Buy and Sell IITB[for all purchases/sales inside IITB], Hostel Groups.


You can join the Google groups of various institute clubs such as literary arts, speaking arts, Photography etc. As per your interests.

Download ftcash and go cashless in institute and you will get discount too.

Important Contact Numbers:
1. Ambulance: 1101/1110
2. Hospital: 7051
3. Main gate: 1123
4. Y point Gate: 1121
5. Public Health office: 7056
**NPTEL National Programme on Technology Enhanced Learning (NPTEL)**
Link: [https://onlinecourses.nptel.ac.in/](https://onlinecourses.nptel.ac.in/)
Purpose: NPTEL is a joint initiative of the IITs and IISc. Through this initiative, they offer online courses and certification in various topics which are free for all and have certification exam (For a nominal fee). Learn anytime, anywhere! Only requirement is interest and enthusiasm to learn.

**Mathematics Stack Exchange**
Link: [https://math.stackexchange.com/](https://math.stackexchange.com/)
Purpose:
This is a question and answer site for people studying math at any level and professionals in related fields. Join them, it only takes a minute. This will help you while studying.
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“This handbook is compiled by Dattatraya Nagale and Rakesh Saini. We both thank all the people who helped a lot while making the handbook. We hope this will be more beneficial to you!!!”