



DEPARTMENT HANDBOOK

EARTH SCIENCE



JSP
Team

2022-
23

DISCLAIMER



The information contained on this handbook is for general information purpose only. While ISCP (Institute Student Companion Program) aspire to keep the information up to date, neither the council nor the Institute can be held responsible for any errors/inadequacies that may inadvertently creep in, because the information on this handbook is based on the data available on official website of the Institute, which can be subject to frequent changes. This handbook cannot be used as a basis for making a claim on facilities/concessions/interpretation of rules/statuses 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 needed. This handbook contains **CONFIDENTIAL** information; therefore, it is strictly advisable not to circulate the information among students that are not part of IIT Bombay.

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T A B L E O F C O N T E N T S

MESSAGE FROM THE HEAD OF THE DEPARTMENT



On behalf of the Department of Earth Sciences, IIT Bombay, I cordially welcome you all. It is a matter of great pride to become a part of the Earth Science family at IIT Bombay. It is one of the best Earth Science departments in the country. The IIT Bombay system of study is challenging but equally exciting and rewarding. The high standard of teaching and research facilities at IIT Bombay enables you to achieve higher levels of learning and understanding. I encourage all the students to interact with their faculty advisors and other faculty members regarding issues related to academics or otherwise. The faculty members of the department are always ready to help you and guide you in the right direction. The atmosphere in the department is student-friendly and conducive for achieving distinction in academics. It is an opportunity for you to take advantage of the teaching and research facilities in the department and advance your career to new heights. At the same time, IIT Bombay systems is flexible for giving you enough opportunity to cultivate extra-curricular skills for improving their overall personality. I am confident that your stay at IITB will be fruitful, memorable and rewarding. We have passed through a difficult time because of the pandemic situation. Wish you a brighter tomorrow.

Prof. Santanu Banerjee
Head Of the Department,
Department of Earth Sciences.

Message From the Faculty Advisors

M.Sc. Applied Geology – Prof. Prabhakar Naraga

“Dear Students, The Department of Earth Sciences welcomes all of you to the IITB’s family. We are happy to be part of your journey to pursue your goals and aspirations. The department is committed to your welfare and ensures comfort and success during your tenure as a student. All of you are requested to have fruitful discussions with faculty advisors and instructors to address any concerns related to their academics and campus life. Our faculty members always encourage and support your initiatives in curricular and extracurricular activities. The department has an excellent curriculum, which exposes you to multidimensional opportunities in Earth Sciences. I invite all of you to begin your new journey at this moment and utilize all academic and non-academic facilities to the fullest extent. I am sure that you all will succeed in reaching your dreams by the end of your course at IITB, the Department of Earth Sciences in particular. I wish you all the very best.”



Prof. Prabhakar Naraga

M.Sc. Applied Geophysics – Prof. Bharath Shekar

“Dear Students, Welcome to the M.Sc. (Applied Geophysics) program at the Department of Earth Sciences, IIT Bombay. The M.Sc. (Applied Geophysics) curriculum has been carefully designed to equip you with the fundamentals of Geophysics, Geology and allied subjects. You will also get a broad exposure to the practice of earth science in academia and industry in the form of field trips and industrial visits. This is indeed a special moment for all of us, as we are resuming in-person classes. We hope it remains this way for the rest of your course! Your hard work and dedication have earned you a place at one of the top institutions in India, and I do hope you will make the most of what the department and IITB have to offer.”



Prof. Bharath Shekar

MTech Petro-GeoSc – Prof. Satish Maurya

“Greetings for the academic year 2022-23!

We are delighted to welcome all of you to IIT Bombay and excited by the return of our vibrant campus life in the new academic session. I am confident that a new beginning of your educational journey will be learning, exploring, and becoming part of a strong campus community that values academic excellence and diversity. We have all missed our students so much during the pandemic but not anymore!”



Prof. Satish Maurya

MTech Geoexploration – Prof. Soumyajeet Mukherjee

"I welcome all the new students in IIT Bombay! I hope you will utilize the academic opportunities here to the fullest extent."



Prof. S. Mukherjee

WELCOME TO IITB!



Message From 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.

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Message From the PGAC



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 Secretary, Academic Affairs (Masters)

Email: imr@iitb.ac.in

Contact no.: 8006080474

ISCP Team



IIT Bombay features a Students Companion Programme which is specifically designed to cater to the needs of the Post Graduate community of IITB. In order to resolve these issues efficiently and quickly, IITB has set up a Student Companion Body which can help with a multitude of these issues. If you're still nervous about being ill-equipped to adjust to life here, trust us, you have nothing to worry about. The help and support provided by our mentors throughout your stay here will guide you on making the most of your limited time here. Your IITB experience would be nothing short of an experience worth recounting a thousand times and more.

“ ISCP is your Guiding Light in the Institution.”

DEPARTMENT COORDINATORS



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STUDENT COMPANIONS



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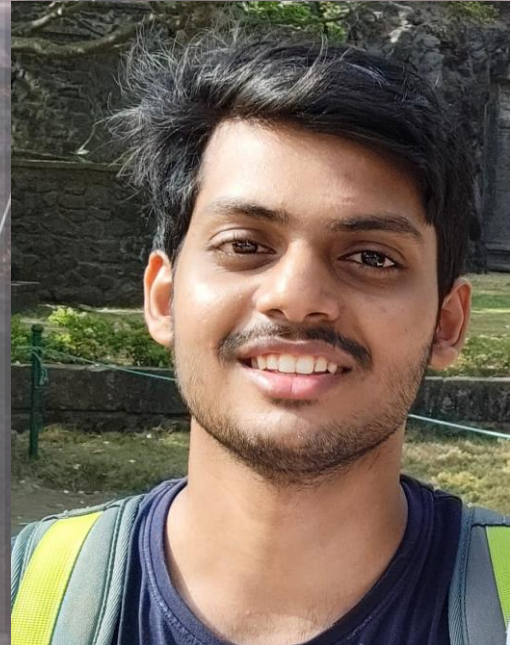
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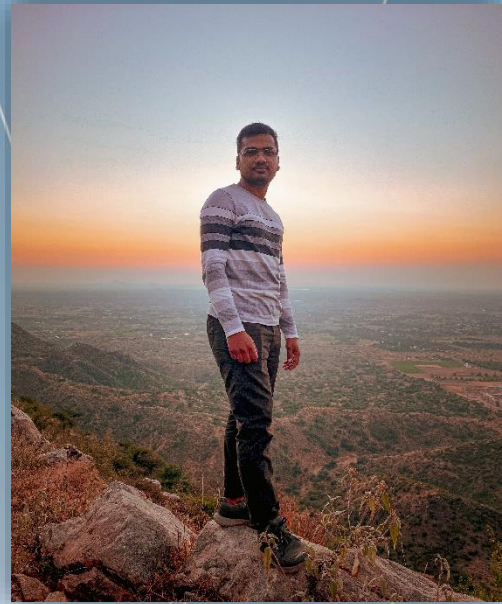


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M.Sc. (Applied Geophysics)

The ISCP Team is built in a way to ensure that we reach each student personally and solve their problem. The building blocks of the team are Student Companions (SCs). Each SC is directly responsible for helping and mentoring a small group of students, the strength of the group is ideally 7-10 students. The team has Department Coordinators (DCs) whose responsibilities other than of a SC are helping in the selection of SCs, coordinating with and keeping track of SCs, organizing department level activities in collaboration with other department functionaries, and organising activities in collaboration with other departments. The work done by DCs is monitored by Overall Coordinators (OCs) selected by a team comprising previous OCs, ISCP Faculty Coordinator and Deans of the Institute. The OCs are responsible for building up the entire ISCP Team with the help of DCs in consultation with the Faculty Coordinator and ensuring that the team works properly. The team also consists of the International Cabinet Member (ICM) whose responsibility is monitoring and solving the problems of International Students in the Institute. The Web Nominee is also the part of the team with the responsibility of updating and maintaining the ISCP Website. The most important thing is that the team structure is not hierarchical, feel free to contact the OCs or the Faculty Coordinator directly in case of any problem or query. We are at your service 24x7...!!

WELCOME MESSAGE FROM THE DEPARTMENT

COORDINATORS

Welcome to the adobe of Knowledge. Congratulations for making it to IIT Bombay.

You have endeavored to get into one of the Most Prestigious institutions of the Nation and we, your seniors, specially are very proud of your achievements. Thus, we, the Department Coordinators of the Department of Earth Sciences put forward a very warm welcome to all of you. And after such long break after the pandemic, the institution shall be running completely in Offline mode, so we are very happy to have you here and more than that we hope you to be safe throughout your journey in IITB.

The best part of IIT Bombay is that it will never let you stop at one thing. It will always have more to explore. Believe me, Your Journey is going to be a Roller Coaster Ride in these two years, full of adventure, opportunities, hardships and above all Knowledge. And at all points of time, we shall always be by your side, helping you whenever you need us.

Institute Student Companion Programme (ISCP) is a student body which focuses on the building a relationship of trust and comfort between the final year students and the incoming students of the PG Programme. We are here to help you in getting familiar with the ways of IITB. IITB doesn't keep you limited just to the Academics. Various events are organized every year by the Cultural Clubs, Sports Clubs and the Technical Clubs. Participate in all the events organized by the institution and make the Department Proud.

The Student Companions are Self-Motivated volunteers who will genuinely help you in the Lows and Highs of your lives as an act of giving back what they received from the Programme. You can look up to any the team for any support, any information before venturing out into an unknown domain, be it academics or any extracurricular activities.

We are there for you for all your issues regarding the curriculum, facilities provided, your physical, social or mental health or anything.

PRIYAM SAHA

Department Coordinator (MTech Petroleum GeoSc)

Department of Earth Sciences

HIMANSHU SEKHAR BAL

Department Coordinator (M.Sc. Applied Geology)

Department of Earth Science

Indian Institute of Technology Bombay



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. Faculty of the institute have won many prestigious awards and recognitions, including the Shanti Swaroop Bhatnagar, Swarna Jayanti and Fellows of academics. 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 programmes. The alumni have distinguished themselves through their achievements in and contributions to 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 programmes as well as to mobilise financial support.

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 18 hostels with in-house dining; the campus also provides excellent amenities for sports and other recreational facilities.

About Department of Earth Sciences

The Department of Earth Sciences constituted in 1982 from the erstwhile Geology Section of the Department of Civil Engineering (where it used to run the M.Sc. programme in Applied Geology since 1964) offers academic programmes leading to M.Sc. (Applied Geology), M.Sc. (Applied Geophysics), MTech. (Geoexploration), MTech. (Petroleum Geoscience) and Doctoral Degrees. The department annually admit about 46 students in its M.Sc. programme, about 35 in its M. Tech programme and about 20 students for its Doctoral programme. In addition, several institute staff members, projects staff members, and students sponsored by various organizations carry out research in diverse fields.

The department is well equipped with the state-of-art laboratory and research facilities including three major National Facilities $^{40}\text{Ar}/^{39}\text{Ar}$ Mass Spectrometer for geochronology, Electron Probe Micro Analyser (EPMA) for mineral chemistry, and Imaging Spectroscopy and Applications. The faculty members regularly publish their research in peer-reviewed high impact SCI journals of international repute. These research contributions are duly recognized at the national as well as international level in terms of several national awards such as the Bhatnagar award, National Geoscience award, Young Scientist award, Krishnan medal.

Apart from teaching commitments, faculty members undertake several sponsored research programmes, consultancy assignments and short-term courses under the Continuing Education Programme (CEP) of IIT Bombay like HYPERSPECTRAL-NISA.

All core, additional and elective courses included in the program have been specifically designed to meet industry standards and research requirements. The close links that the department enjoys with the industry and research organizations, has worked towards elevating the level and quality of studies and facilities. The department also works towards building the social and moral character of the students.

Department Official Website: <http://www.geos.iitb.ac.in/>



FACULTY MEMBERS



SHANTANU BANERJEE
Professor and Head of Department

Sedimentology, Basin analysis



TAPAS KUMAR BISWAL
Professor

Structural Geology, Tectonics



**ENAMUNDRAM
CHANDRASHEKHAR**
Professor

*Geo-electromagnetic induction,
Nonlinear Geophysical signal
analysis*



**SAKTHI SARAVAN
CHINNASAMY**
Associate Professor

*Ore Geology, Metamorphic
Petrology, Fluid Inclusions*



SUDIPTA DASGUPTA
Associate Professor

*Process Sedimentology,
Ichnology, Sequence
Stratigraphy,
Palaeogeomorphology*



SURYENDU DUTTA
Professor

*Organic Geochemistry,
Petroleum Geology*



GEORGE MATHEW
Professor

*Mineralogy and
Thermochronology,
Quaternary
Geochronology*



SATISH MAURYA
Assistant Professor

*Seismic tomography,
Waveform modelling,
Ambient seismic noise study*



GOLLAPALLY MOHAN
Professor

Seismology, General Geophysics



SOUMYAJIT MUKHERJEE
Professor

*Structural Geology
(Fieldwork, micro-
structural studies, analogue
model, analytical model)*



MALAY MUKUL
Professor

*Structural Geology, GPS
Geodesy, Neotectonics*



PRABHAKAR NARAGA
Associate Professor

*Metamorphic Petrology,
Tectonics*



KANCHAN PANDE
Professor

*Isotope Geology,
Geochronology,
Geochemistry*



SURESH CHANDRA PATEL
Professor

*Metamorphic Petrology,
Unstable Isotope
Systematics*



JAHNAVI PUNEKAR
Assistant Professor

*Micropalaeontology,
Biostratigraphy*



**MUNUKUTLA
RADHAKRISHNA**
Professor

*Gravity and Magnetic methods,
Seismotectonics, Solid Earth
Geophysics, Continental
Margins*



**DESIKAN
RAMAKRISHNAN**
Associate Professor

*Remote Sensing,
Geomorphology,
Hydrogeology*



BHARAT SHEKAR
Associate Professor

Exploration Seismology



HETU SHETH
Professor

*Volcanology, Igneous Petrology,
Flood Basalts, Deccan Volcanism*



ANAND SINGH
Assistant Professor

*Geophysical
Inversion, Numerical
Modelling*



**KUMAR HEMANT
SINGH**
Professor

*Applied Geophysics,
Petrophysics and Rock Physics,
Machine Learning*



TRILOK NATH SINGH
Professor

*Engineering Geology, Rock
Mechanics, Slope Stability*



VIKRAM VISHAL
Associate Professor

*Geomechanics, Energy,
Geohazards*



NIBEDITA RAKSHIT
Assistant Professor

*Vertebrate
Palaeontology,
Taphonomy, Geochemical
studies on fossil bones,
Vertebrate Ichnofossils,
Mesozoic ecosystem*

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Important Information to Know

1. LDAP ID*

It is the unique identification of each individual in IIT Bombay. By default, the LDAP ID assigned to you is the Roll Number of the student. It can be changed by the student but only once in a lifetime. Though it is preferable not to change your LDAP ID as you will be able to remember your Roll Number easily.

2. CAMP*

Link: <https://camp.iitb.ac.in/>

The following things will be available in CAMP Website

- ❖ Changing Password
- ❖ Changing UserID (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 UserID from Roll number / Employee Number

3. WEBMAIL*

Link: <https://webmail.iitb.ac.in>

This is your personalized e-mail in IIT B. You will get your Id when you get enrolled in IITB. Along with normal mails, here you also get alerts for registration/ de-registration of courses, fees payment and any broadcast on Moodle among others. We can change the username and password of the webmail for giving it a personal look in order to make conversation with abroad professors or other personal work. You have to regularly check (5-6 times a day) GPO to get updated.

The webmail id is always LDAP_ID@iitb.ac.in for any student.

4. Application Software Centre (ASC) – Administration*

Link- <https://asc.iitb.ac.in/>

This website is the main interactive website for a student for all of his/her administrative requirements. From paying your fees to checking your grades all can be done on this website. This website also has links to all the other websites of the institute. Some of the most important facilities provided by this website are given under:

- Payment of fees
- Registration and de-registration from courses
- Checking previous years' grades awarded in any subject
- Brief contents of any subject being offered
- Own personalized timetable
- Checking of own academic performance (grades)

5. External Portal*

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

This website will have your details. It is similar to ASC and can be accessed from anywhere around the world.

6. MOODLE-ACADEMICS*

Link: <https://moodle.iitb.ac.in/>

It is the website which provides for academic interactions between faculty and students in IIT Bombay for all courses enrolled by a student. From Moodle, you can download all the course materials uploaded by the Course Instructor for the course you have registered for and also interact with the faculty and it is a forum for academic discussions. This one website will be used by you very frequently and it is an interaction platform with TAs and Professors on any subject related matter.

7. BODHITREE*

Link: [BodhiTree \(iitb.ac.in\)](http://BodhiTree(iitb.ac.in))

This website provides for online interactions between faculty and students in IIT Bombay for all courses enrolled by a student. From BodhiTree you can see video lectures and can download all the course materials uploaded by Course Instructor for the course you have registered for and also interact with the faculty and it is a forum for academic discussions. These can be accessed by students via a smartphone app as well as a web-browser.

➤ Important Websites:

- Google scholar: <https://scholar.google.co.in>
- Research gate: <https://www.researchgate.net>
- Ieee xplorer: <https://ieeexplore.ieee.org/Xplore/home.jsp>
- Scopus: <https://www.scopus.com>
- Science direct: <https://www.sciencedirect.com>
- Koha iitb: <https://opac.library.iitb.ac.in/>

➤ Important Online Meet Platforms that will be used:

It is advisable to sign in into following websites using your webmail IDs.

- Google meet: <https://meet.google.com/>
- Cisco WebEx: <https://www.webex.com/>
- Zoom: <https://zoom.us/meetings>
- BodhiTree: <https://garuda.bodhi.cse.iitb.ac.in/accounts/landing/>

➤ Open Course Ware

Departmental Open Course Ware (D-OCW) is an initiative taken by Departmental ISCP teams (M.Sc.) to put all of the educational materials required by students to master in the department. The aim of this programme is to provide all needed material at once to all, so that all can save their time. This directory of study material can be accessed by browsing the ISCP website. It can also be accessed on the ERSA Website. On the OCW all kind of study materials are shared which are available. You can get several links of good video lectures and some links of other study material directly prepared by institutes like (M.L T., NPTEL) and moreover you can get all questions paper of seasonal exams. Now it's an opportunity for you so that you can adhere with the aim of OCW and you can save time and can use it for a better study which can reform your future.

Link: <https://gymkhana.iitb.ac.in/—scp/scp/test31.html#common>

➤ eBook Websites

Central Library, IIT-B: <http://www.library.iitb.ac.in>

Google Books: <https://books.google.co.in>

Geo-Library: www.mediafire.com/folder/i0ts4tv50x4mt/Geo-Library

Library Genesis: <http://gen.lib.rus.ec/>

➤ Links for other Miscellaneous purposes

1. Accessing IITB Internal Sites with VPN:

<https://www.cc.iitb.ac.in/page/services-vpnssh>

2. Configuring IITB-Wireless in laptop/android/desktop:

<https://www.cc.iitb.ac.in/page/configurewireless>

3. Access GPO mail on mobile mail:

<http://homepages.iitb.ac.in/~yatindestel/docs/GPO%20in%20Gmail.pdf>

4. Free Licensed Software

<https://www.cc.iitb.ac.in/page/services-software>

5. How to forward GPO mail to Gmail

<http://camp.iitb.ac.in/cgi-bin/index.cgi>

6. Rules and Regulations for M.Tech.

<http://www.iitb.ac.in/newacadhome/rulesPG.jsp>

7. Link for External ASC site

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

8. Link for Central Library

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

9. Link for Internship and Placement portal:

<https://campus.placements.iitb.ac.in/>

10. Link for academic calendar

<http://www.iitb.ac.in/newacadhome/toacadcalender.jsp>

11. Link for academic timetable

<http://www.iitb.ac.in/newacadhome/timetable.jsp>

12. Link for IITB Holiday List

<http://www.iitb.ac.in/en/about-iit-bombay/iit-bombay-holidays-list>

13. Link for circulars

<http://www.iitb.ac.in/newacadhome/circular.jsp>

➤ Some Useful Apps

1. InstiApp

InstiApp is an Android App that helps you navigate through the IIT Bombay Campus. It is a one stop solution for all the queries above and beyond. An app of the insti, for the insti, and by the insti, it connects all the aspects of one's insti life, weaving around hostels, academics, co-curricular activities and recreation.

Download Link:

https://play.google.com/store/apps/details?id=app.insti&hl=en_IN

2. Instimap

InstiMap is a searchable map of the campus, specially designed for first time visitors and new entrants, to find their way around IIT Bombay with ease. It is available on instiApp - an Android App that helps you navigate through the various events on IIT Bombay Campus.

It is available at: <https://insti.app/map>

3. m-Indicator

This app contains the Local Train Timings of Mumbai and also details the local train routes for IIT Bombay. One can also find the various bus routes and the bus numbers on this app.

Download Link:

<https://play.google.com/store/apps/details?id=com.mobond.mindicator>

4. OpenVPN Connect App

OpenVPN Connect is the official VPN application for Android developed by OpenVPN, Inc. It is a universal client serving the following OpenVPN products:

- ⇒ Access Server – server solution for businesses
- ⇒ OpenVPN Compatible Server – solution for self-hosted servers

It can be used for connecting with IITB Internal sites using VPN.

Download Link:

https://play.google.com/store/apps/details?id=net.openvpn.openvpn&hl=en_IN

5. MYBYK App:

Whether you want to ride a cycle at home or use it to commute within your campus, whenever you need a cycle, find a MYBYK near you. Unlock using your smartphone and pedal your way to a healthy life.

Download Link:

<https://play.google.com/store/apps/details?id=in.greenpedia.mybyk>

6. SHIRU CAFÉ:

Order your free drink in the app. Simply launch the app and tap the drink you would like to order.

Download Link:

<https://play.google.com/store/apps/details?id=jp.co.enrission.shirucafe>

➤ Dissertation Topics

Every student enrolled in masters has to do a project in his final year of degree. Directory of Department wise dissertation topics of current batch can be found on this website

<https://gymkhana.iitb.ac.in/~scp/sp/test31.html#common>

➤ Accessible Research

IIT-B favours a quality study and so it provides unique facilities for academic help of student. In order to get a detailed and updated knowledge of any subject one should know all previous works on the subject and also new aspect related to the subject. Supporting this aim, IIT-B has subscribed to several online research paper directories. This makes recent knowledge accessible to the nurturing scholar of futurity.

Department Provides a wide range of research area Geomechanics, Active Tectonics and Tectonics, Electromagnetism, Economic Geology, Engineering Geology, Exploration Seismology, Geochemistry, Geostatistics, Geomagnetism, GPS and Geodesy, Gravity and Magnetic, Hydrogeology, Ichnology, Isotope Geology, Igneous Petrology, Mineralogy, Micropalaeontology, Metamorphic Petrology, Ore Petrology and Ore deposit modelling, Organic Geochemistry, Petroleum Geology. Petrophysics, Remote Sensing and GIS, Sedimentology, Structural Geology etc.

➤ Open Course Ware

Departmental Open Course Ware (D-OCW) is an initiative taken by Departmental ISCP teams (M.Sc.) to put all of the educational materials required by students to master in the department. The aim of this programme is to provide all needed material at once to all, so that all can save their time. This directory of study material can be accessed by browsing ISCP website. It can also be accessed on the ERSA website. On the OCW all kind of study materials are shared which area available. You can get several links of good video lectures and some link of other study material directly prepared by institutes like M.L.T, NPTEL etc, moreover you can get all question papers of seasonal exams. Now it's an opportunity for you so that you can adhere with the aim of OCW and you can save time and can use it for a better study which can reform your future.

Link: <https://gymkhana.iitb.ac.in/~scp/scp/test31.html#common>.

➤ PROGRAMMING LANGUAGES USEFUL FOR PLACEMENT AND RESEARCH WORKS:

Irrespective of department or specialization in which you get admission, some of following things you all must learn for the placement and future research work. It includes most important Programming languages like C++, Python and MATLAB. As we all have gone through same phase from which you are going now, we have provided various online sources so that you can start learning from very basics. We know that most of you may not be familiar with these programming languages but believe us, it's not mandatory that you should have a prior knowledge of coding. Even, those who didn't have any prior knowledge of coding can easily learn these programming languages. Only thing you need to do is dedication.

So, let's start with very important 3 languages, since these languages might be needed for course assignments and course projects. We are just providing you information and source to learn this language. Basics of first three languages should be learned by everyone.

1. PYTHON

Python is an interpreted, high-level, general-purpose programming language. Python's object-oriented programming (OOP) approach aims to help programmers write clear, logical code for small and large-scale projects.

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, makes it an ideal language for scripting and rapid application development in many areas on most platforms. This language has oceans of libraries freely available as its open source. It is very important language to learn to build career in Data Sciences and Machine Learning fields.

VARIOUS SOURCES TO LEARN PYTHON:

- Python for everybody by University of Michigan by Coursera:

<https://www.coursera.org/specializations/python?>

SOFTWARE FOR INSTALLATION

- For installing python on your system, go to the following link:

<https://www.python.org/downloads/>, where you can find various options to install different versions of python on different platforms.

- For proper instructions to install python, following links may be useful,

1. WINDOWS: <https://docs.python.org/3/using/windows.html>

2. LINUX: <https://docs.python.org/3/using/unix.html>

3. Mac OS: <https://docs.python.org/3/using/mac.html>

- Python is a huge platform for various applications. But for a basic usage and understanding, a lot of material is available online. The following link contains a lot of information on different learning sources available (along with links):

<https://wiki.python.org/moin/BeginnersGuide>

- Various Coding Environments are available online for using python. Following links contain installation info about them:

1. Anaconda: <https://docs.anaconda.com/anaconda/install/>

2. PyCharm: <https://www.jetbrains.com/help/pycharm/installation-guide.html>

2. MATLAB

MATLAB is a high-performance language for technical computing. It integrates computation, visualization, and programming in an easy-to-use environment

where problems and solutions are expressed in familiar mathematical notations. Typical uses of MATLAB are:

1. Math and Computation
2. Algorithm development
3. Modelling, simulation and prototyping
4. Data analysis, exploration, and visualization
5. Scientific and engineering graphics
6. Application development, including Graphical User Interface building

VARIOUS SOURCES TO LEARN MATLAB:

● Basic tutorial for beginners:

1. YouTube video: <https://www.youtube.com/watch?v=qGiKv3-02vw>
2. <https://www.tutorialspoint.com/matlab/index.htm>
3. Get started with MATLAB:
<https://in.mathworks.com/help/matlab/getting-started-with-matlab.html>
4. Introduction to Programming with MATLAB (offered by- Vanderbilt University) Coursera: <https://www.coursera.org/learn/matlab>

SOFTWARE FOR INSTALLATION

For more details and knowledge about the software, refer the following link:

- <https://in.mathworks.com/discovery/what-is-matlab.html>
- For downloading MATLAB software from IITB portal, go to the following link and follow the instructions in readme file:
 - http://ftp.iitb.ac.in/ftp/IITB_private/Matlab/

The license used to operate MATLAB downloaded from the above link is provided by IITB, so while operating it you may have to connect to IITB Network.

- Alternative link for downloading the software:
<https://getintopc.com/software/math/mathworks-matlab-r2021a-free-download-2378375/>

3. C/C++

C is one of the most widely used programming languages, with C compilers from various vendors available for the majority of existing computer architectures and operating systems. C is a general purpose, procedural programming language. It was designed to be compiled using a relatively straightforward compiler, to provide low-level access to memory, to provide

language constructs that map efficiently to machine instructions, and to require minimal runtime support. C-language also found lasting use in applications previously coded in assembly language. Such applications include operating systems, as well as various application software for computers ranging from supercomputers to embedded systems.

VARIOUS SOURCES TO LEARN C/C++ language:

Learn C – Introduction: <https://www.codesdope.com/cintroductio/>

Beginners C++ Programming Course: <https://bit.ly/CplusplusCourse>

C-programming for Beginners (Udemy):

<https://www.udemy.com/course/c-programming-for-beginners-/>

Introduction to programming in C (Duke university) Coursera:

<https://www.coursera.org/specializations/c-programming>

SOFTWARE FOR INSTALLATION

MingW- <https://bit.ly/mingw10>

Visual Studio Code- <https://code.visualstudio.com/>

4. CS50: Computer Science Courses and programs from Harvard.

Introduction to computer Science from Harvard, better known as CS50, is the largest course on the Harvard Campus and more than 2,000,000 learners worldwide have registered for the course on edX. They offer a series of introductory CS50 courses and professional certificate programs from Harvard that are open to learners of all backgrounds looking to explore computer science, mobile app and game development, business technologies and the art of programming.

Link: <https://www.edx.org/cs50>

➤ SCHOLARSHIPS AND FAP

Scholarships:

Merit-cum-Means Scholarship (MCM) for MSc

Free messing facility for SC/ST students

For details information and eligibility criteria, visit the following link

[WELCOME TO THE ACADEMICS HOMEPAGE OF IITB](#) (Scholarship Portal)

[M.ScMCM2019.pdf \(iitb.ac.in\)](#) (MCM)

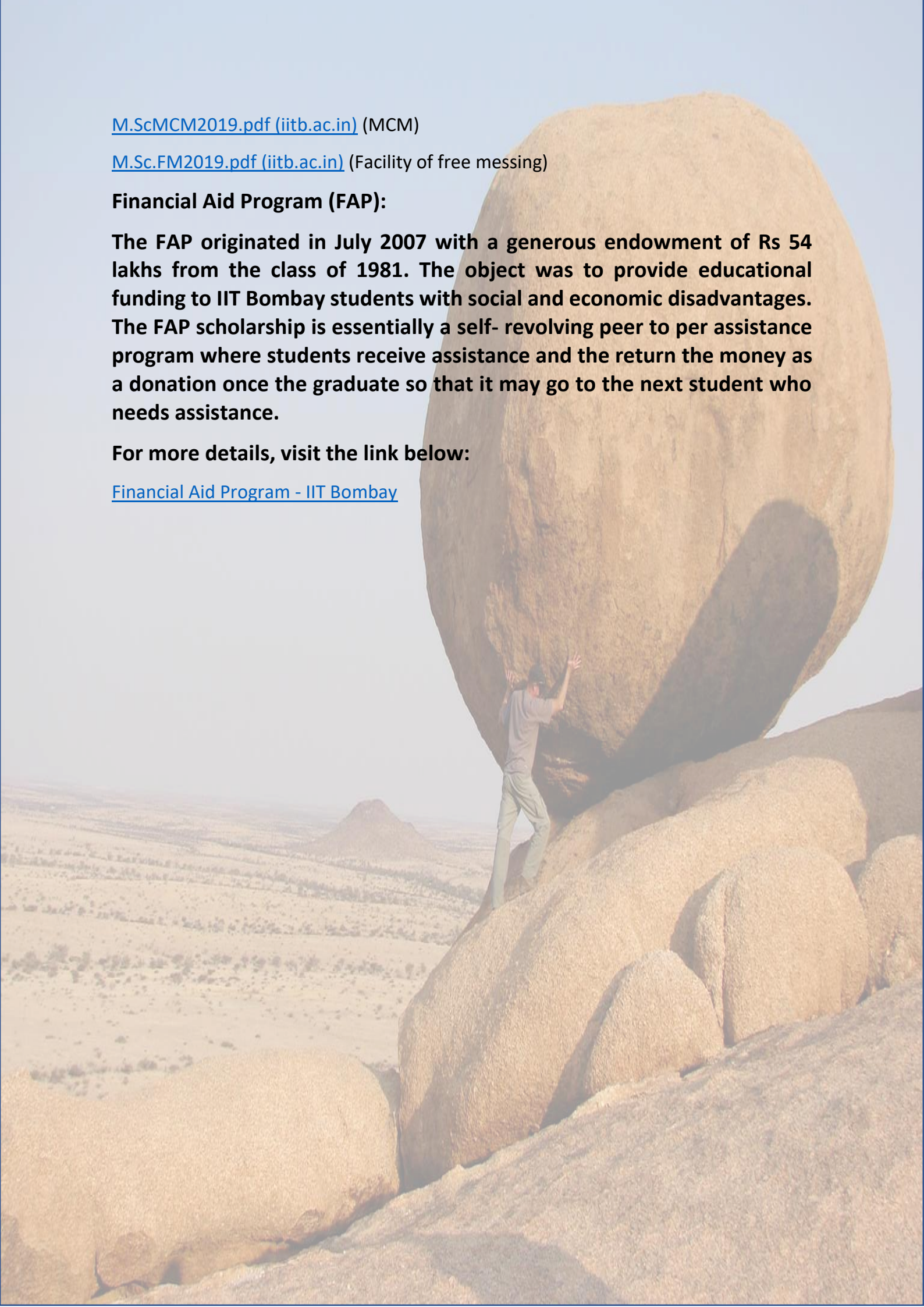
[M.Sc.FM2019.pdf \(iitb.ac.in\)](#) (Facility of free messing)

Financial Aid Program (FAP):

The FAP originated in July 2007 with a generous endowment of Rs 54 lakhs from the class of 1981. The object was to provide educational funding to IIT Bombay students with social and economic disadvantages. The FAP scholarship is essentially a self-revolving peer to peer assistance program where students receive assistance and then return the money as a donation once they graduate so that it may go to the next student who needs assistance.

For more details, visit the link below:

[Financial Aid Program - IIT Bombay](#)



GRADING CRITERIA AND RULES

Like most of the engineering colleges IIT Bombay also follows Grade Point system here which is known as CPI system (Cumulative Performance Index). For every course taken by the students, he/she is assigned a letter grade on his/her combined performance in all the assessments. Grades are allotted on relative marking basis. Range of marks assigned to a particular grade is totally depended on instructor of the object. These grades are described by the following letters and corresponding grade points.

Letter grade	Grade Point
AP	10
AA	10
AB	9
BB	8
BC	7
CC	6
CD	5
DD	4
FF	0 (Fail- Re-examination)
FR	0 (Fail- Repeat the course)
DX	0 (Attendance below 80%- Repeat the course)
PP	Pass
NP	Not Pass
AU	Audit
DR	Dropped
W	Withdrawn

For more details:

<http://www.iitb.ac.in/newacadhome/M.Sc.rulefinal201815June.pdf>

Ph.D. and Research Opportunities

IIT Bombay has signed MoUs with several universities abroad for Student exchange programmes. Students of IITB interested in participating in exchange programs with international universities can do course work and/or project work at an Institution with which IITB has an MoU. There are separate schemes for student exchanges and research work, the details of which are available under list of MoUs here:

http://www.ir.iitb.ac.in/?page_id=137

Find more information here: http://www.ir.iitb.ac.in/?page_id=396

The IITB-Monash Research Academy is a major Australian-Indian research collaboration formed between IITB and Monash University. Monash University is Australia's largest university with a global reputation for making an impact and challenging the status quo. The PhD program at IITB-Monash Research Academy allows graduate students from India to work with both IITB and Monash supervisors, as well as industry partners. Spending at least one year in Australia, students graduate with a joint PhD degree from IITB and Monash University, ensuring a truly global experience, setting them up for future career success. For further details, please visit:

<http://www.iitbmonash.org/>

Tata Centre for Technology and Design (TCTD) at IIT Bombay was established in 2014 with support from the Tata Trusts. The Tata Centre acts as a virtual centre for teaching and research that draws faculty members and graduate students from various academic units across IITB. The centre focuses on challenges in the areas of Agriculture and Food, Education, Energy, Healthcare, Housing, Water and Waste Management. To know more about different project under Tata centre, please visit:

<http://www.tatacentre.iitb.ac.in/>

Ministry of Human Recourse Development (MHRD, Government of India, launched the Prime Minister's Research Fellows (PMRF) program for direct admission to the PhD program at IISc and IITs. This program also gives opportunity to student pursuing or have completed M.Tech. / MS by Research at the IISc/IITs/IISERs. More details may be found on the PMRF website at <https://pmrf.in/>

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) inquires 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.

Link: <http://www.gendercell.iitb.ac.in>

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, Counsellors from Student Wellness Centre 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.

Typical concerns of students who seek counselling are:

- Transition and change
- Uncertainty about values and goals
- Academic pressure
- Dealing with new academic patterns
- Personal relationships with the special one and with friends
- Family concerns
- Issues of grief and loss
- Stress, depression and anxiety
- Lack of motivation; concentration difficulties
- Others...

Link: <http://www.iitb.ac.in/swc>

DEPARTMENT GENERAL COUNCIL

Earth Science Association (ERSA)

The inception of Earth Sciences Association (ERSA) is to promote advance knowledge and awareness in field of Earth Sciences. It provides a platform for students to step up their extra-curricular activities like sports, cultural, literary and arts. The ERSA has been existing since about 1983 but it was officially recognized as a part of the Students Activities Centre (SAC), IIT Bombay in year 2005.

Currently, ERSA Council comprises of a Departmental General Secretary, a Departmental Association General Secretary, an Associate Secretary (Cultural Affairs), an Associate Secretary (Literary and Art affairs), an Associate Secretary (Sport Affairs), an Associate Secretary (Web affairs), an Associate Secretary (Alumni affairs) and a PG Sports nominee.

Although ERSA is a student organization, there are enthusiastic faculty members continuously boosting ERSA activities. The faculty members who are directly involved in governing the ERSA activities are: -

President - Prof. S.C. Patel

Treasurer -Prof. M Radhakrishna

Cultural Affairs - Prof. G Mathew

Literary Affairs - Prof. M Mukul

Sports Affairs - Prof. S Mukherjee

Web Affairs -

Alumni Affairs -

DEPARTMENT GENERAL COUNCIL

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Department Web coordinator

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AJAY DAS

Department Placement Coordinator
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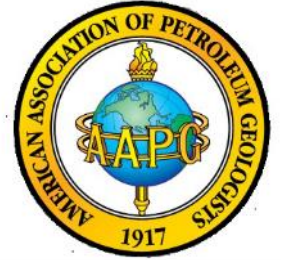
TANU PRIYA

Department PhD Representative

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8418883201

American Association of Petroleum Geologists



Founded in 1917, the American Association of Petroleum Geologists is currently the world's largest professional geological society with “chevron” as its premier sponsor. The original purpose of AAPG, to foster scientific research, advance the science of geology, promote technology, and inspire high professional conduct, still guides the Association today.

The IITB Student Chapter was started in 2010

[AAPG – Department of Earth Sciences, IIT Bombay](#)

Council Members

YET TO BE FORMED

Society of Petroleum Engineers (SPE)



Initially founded as a constituent society of AIME (American Institute of Mining Engineers) in 1957, SPE became a separate organization in 1985. It aims at disseminating technical knowledge concerning exploration, development and production of oil and gas resources and related technologies.

[SPE – Department of Earth Sciences, IIT Bombay](#)

Council Members



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Treasurer
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Society of Petroleum Geophysicists (SPG)



The Society of Petroleum Geophysicists is one of the most prestigious organizations which provides a platform for the geophysicists, petrophysicists and geologists to discuss and model the important and challenging aspects of exploration, development and production of oil and gas resources and related technologies. Memberships is free for the students. The chapter promises to deliver all the inputs from the academics and industries, and conference by researchers and organize regular workshops on current methods and technologies in the industry.

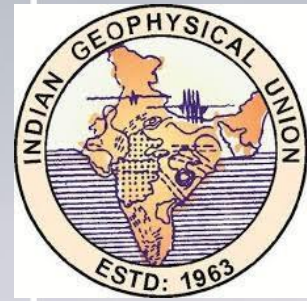
Council Members

YET TO FORM



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INDIAN GEOPHYSICAL UNION (IGU)



The Indian Geophysical Union is the Government of India's scientific body responsible for all activities related with Earth Science system such as, seismology, magnetism, meteorology, geodesy, volcanology, oceanography, hydrology and tectonophysics and to encourage the study and research in geophysical problems and to provide media for publication of the results. Under the student chapter activity of ICU, we organize many kinds of events, lecture series, seminars etc. to convey the knowledge of most advanced topics being studied under the domain of geophysics.

Council Members



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ABHISHEK MEHTA

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Vice President
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Secretary
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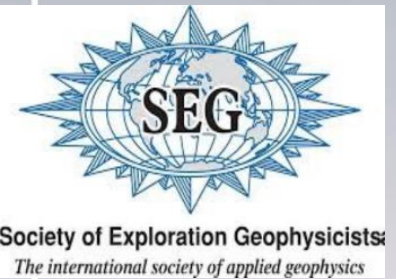


Treasurer
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Society of Exploration Geophysicists (SEG)



The Society of Exploration Geophysicists is a not-for-profit organization whose mission is connecting, inspiring, and propelling the people and science of geophysics. The SEG student chapter gives the opportunities to enhance your education, start your career and join the community of like-minded students who are going to be the leaders in the field of geosciences. At SEG IITB Student chapter we organize multiple events throughout the academic year. Events ranging from seminars by experts from academics and industry, conferences by researchers, workshops on current methods and technologies being used in industry and quizzes related to geosciences etc. are organized. There is a regular floating of SEG news and events to the members to keep them updated about what's happening in the field of geosciences.

Council Members

YET TO BE FORMED

PLACEMENTS

At IIT Bombay, every Department/Centre has equal and many opportunities in placement seasons every year, which has made our institution outstanding in terms of on-campus placements statistics. Department of Earth Sciences has a reputed and glorious past. Therefore, as the years go by, Department of Earth Sciences is making its mark, and the students are making this possible year by year. In addition, probable placement of a student entirely depends upon the student's interest area, caliber and the amount of efforts he/ she puts in for it. So, a suggestion to the incoming batch of students is to start thinking and explore about how they would like to utilize courses and the facilities offered by the institution for themselves. We see recruiters coming from a number of sectors- Core, Data science, Educational Technology, Machine Learning, to name a few. Student alumni of this branch are placed in the most reputed companies. Every company has provided good profiles and salaries.

PLACEMENTS REPORT

NAME	ROLL NO	COURSE	COMPANY
Shatavisa Chatterjee	205060025	MSc. Applied Geology	ONGC
Manabendra Kuiry	205060014	MSc. Applied Geology	ONGC
Rachaita Sen	205060027	MSc. Applied Geology	Cairn
Avinab Sen	205060013	MSc. Applied Geology	Cairn
Kastur Parida	205060003	MSc. Applied Geology	Cairn
Chandan Pradhan	205060018	MSc. Applied Geology	Cairn
Shubhashree Das	205060030	MSc. Applied Geology	BRIDGEi2i (Non Core)
Bunny Devadi	205060015	MSc. Applied Geology	Haliburton
Mukul Dhankar	205060004	MSc. Applied Geology	Sun Petrochemicals
Abhishek Satyavir Sharma	205320002	MSc. Applied Geophysics	ONGC
Ravi Shankar Vaishnav	205320012	MSc. Applied Geophysics	ONGC
Prapti Sha	205320008	MSc. Applied Geophysics	Cairn
Sonal Janagal	203060044	MTech(Petroleum Geosciences)	ONGC
Singh Sakshi Sunil	203060006	MTech (Geoexploration)	Geologix

PLACEMENT TEAM MEMBERS



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AJAY DAS
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Coordinator (M.Sc. Applied
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9007290403

IITB CULTURAL CLUBS

IITB Culturals – https://linktr.ee/culturals_iitb

Institute cultural council – <https://cultural-iitb.org/>

Various Clubs of IITBombay :

StyleUp – The Fashion Club of IIT Bombay -

https://instagram.com/styleup_iitb?igshid=YmMyMTA2M2Y=

Comedy Cons – The Stand Up Comedy Club of the Institute –

https://instagram.com/comedycons_iitb?igshid=YmMyMTA2M2Y=

We Speak – The English Speaking Arts Club of the Institute –

<https://instagram.com/wespeakiitb?igshid=YmMyMTA2M2Y=>

Literati – The Official Literary Arts and Quiz Club of IIT Bombay –

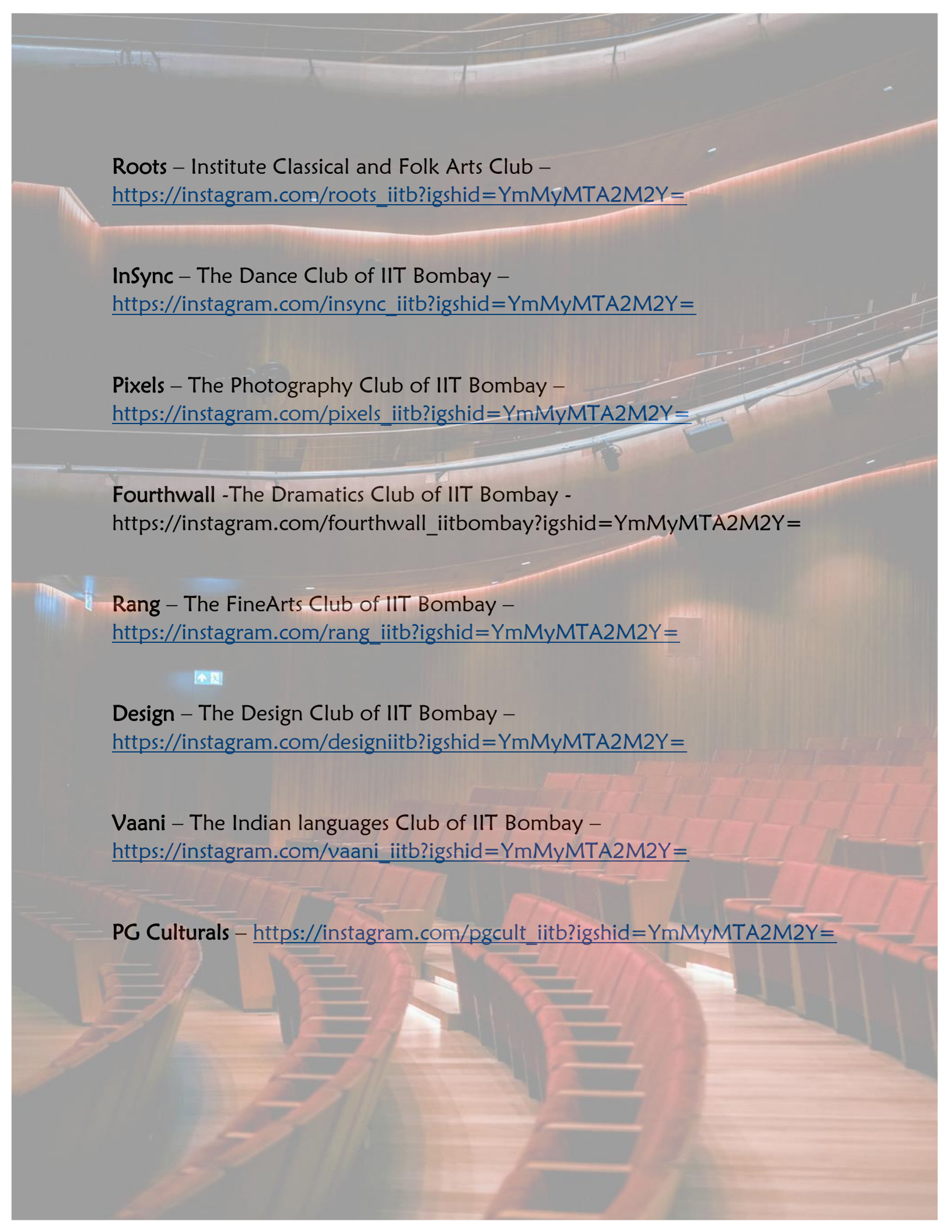
https://instagram.com/literati_iitb?igshid=YmMyMTA2M2Y=

SilverScreen – The Official Film & Media club of IIT Bombay –

https://instagram.com/silverscreen_iitb?igshid=YmMyMTA2M2Y=

Symphony – The Official Music club of IIT Bombay –

<https://instagram.com/symphonyiitb?igshid=YmMyMTA2M2Y=>



Roots – Institute Classical and Folk Arts Club –

https://instagram.com/roots_iitb?igshid=YmMyMTA2M2Y=

InSync – The Dance Club of IIT Bombay –

https://instagram.com/insync_iitb?igshid=YmMyMTA2M2Y=

Pixels – The Photography Club of IIT Bombay –

https://instagram.com/pixels_iitb?igshid=YmMyMTA2M2Y=

Fourthwall -The Dramatics Club of IIT Bombay -

https://instagram.com/fourthwall_iitbombay?igshid=YmMyMTA2M2Y=

Rang – The FineArts Club of IIT Bombay –

https://instagram.com/rang_iitb?igshid=YmMyMTA2M2Y=

Design – The Design Club of IIT Bombay –

<https://instagram.com/designiitb?igshid=YmMyMTA2M2Y=>

Vaani – The Indian languages Club of IIT Bombay –

https://instagram.com/vaani_iitb?igshid=YmMyMTA2M2Y=

PG Culturals – https://instagram.com/pgcult_iitb?igshid=YmMyMTA2M2Y=

SPORTS CLUBS OF IITB

Institute Sports – <https://instagram.com/iitbombaysports?igshid=YmMyMTA2M2Y=>

PG Sports – <https://instagram.com/iitbpgsports?igshid=YmMyMTA2M2Y=>

Various Institute Sports Club :

Volleyball Club –

https://instagram.com/volleyballclub_iitbombay?igshid=YmMyMTA2M2Y=

Hockey Club – https://instagram.com/iitbombay_hockey?igshid=YmMyMTA2M2Y=

Table Tennis Club – https://instagram.com/table_tennis.iitb?igshid=YmMyMTA2M2Y=

Frisbee Club – https://instagram.com/iitb_ultimate_frisbee?igshid=YmMyMTA2M2Y=

Athletics Club – <https://instagram.com/iitbombayathletics?igshid=YmMyMTA2M2Y=>

Cricket Club – https://instagram.com/cricket_club_iitb?igshid=YmMyMTA2M2Y=

Football Club – https://instagram.com/iitb_football?igshid=YmMyMTA2M2Y=

Basketball Club – https://instagram.com/basketball_iitb?igshid=YmMyMTA2M2Y=



Chess Club – https://instagram.com/dkcc_iitb?igshid=YmMyMTA2M2Y=

Tennis Club – https://instagram.com/tennis_club_iitb?igshid=YmMyMTA2M2Y=

Fitness Club – https://instagram.com/fitness_club_iitb?igshid=YmMyMTA2M2Y=

Aquatics Club – https://instagram.com/aquatics_iitb?igshid=YmMyMTA2M2Y=

Weight lifting Club – https://instagram.com/iitb_weightlifting?igshid=YmMyMTA2M2Y=

Adventure Club – https://instagram.com/adventureclub_iitb?igshid=YmMyMTA2M2Y=

Aavhan – The sports fest of IITBombay
https://instagram.com/aavhan_iitb?igshid=YmMyMTA2M2Y=

EXPLORE THE INSTITUTE!

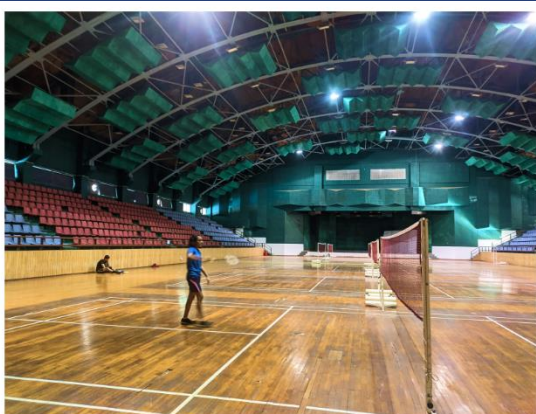
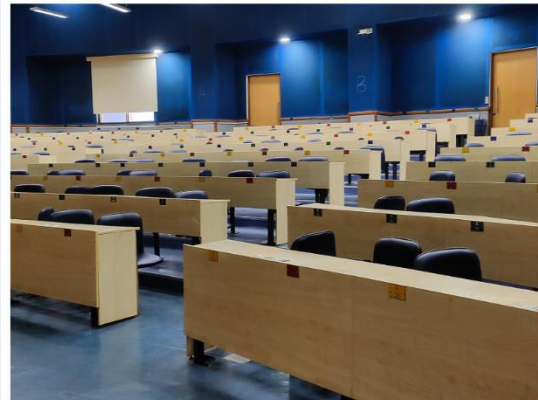


IITB MAIN BUILDING



SAMEER HILL

**LECTURE HALL
CLASSROOMS**



GYMKHANA

INFINITY CORRIDOR



INSTI EVENTS



TECH FEST 2022

TECH FEST 2022



MOOD INDIGO 2021

MOOD INDIGO 2021



POWAI LAKE CLEANUP

PROM NIGHT



OUR DEPARTMENT



**DEPARTMENT
FRONT GATE**

**DEPARTMENT
BACK GATE**



DEPARTMENTAL MUSEUM

**WIDE VARIETY OF
MINERALS ON DISPLAY**



DEPARTMENT CORRIDOR

DEPARTMENT LABS



DEPARTMENT TRIPS / EVENTS



**FIELD D1
ELEPHANTA CAVE**

**FIELD D2
RHYOLITE COLUMNS**



**FIELD D2
ATTITUDE MEASUREMENT**

**FIELD D1
GATEWAY OF INDIA**



PROTOLITH 2020

PROTOLITH 2020





**PREPARATION FOR
AQUARIIDS 2022
(FAREWELL EVENT)**

**SENIORS IN THEIR
ETHNIC ATTIRE**



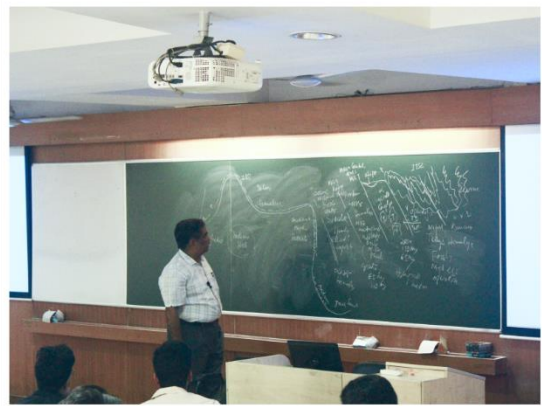
**INTRA DEPT CRICKET
TOURNAMENT 2022**



**POSING WITH THE
SENIORS**



**TK BISWAL SIR'S
FAREWELL**



**INTRA DEPT CRICKET
TOURNAMENT 2022**



DEPARTMENT FACILITIES



**AR-AR MASS
SPECTROMETER**

**ELECTRON PROBE MICRO-
ANALYSER (EPMA)**



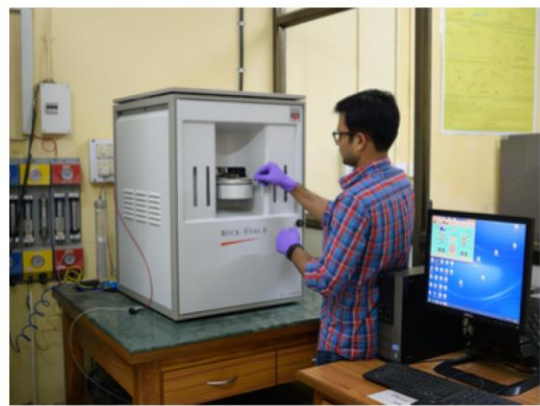
X RAY FLUORESENCE

**X-RAY DIFFRACTOMETER
(XRD)**



PYROLYSIS GC-MS

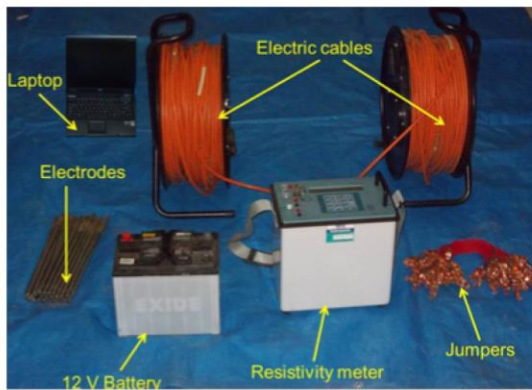
**ROCK-EVAL
PYROLYZER**





**QUANTACHROME
AUTOSORB IQ2**

GRAVIMETER



**MULTI-ELECTRODE
RESISTIVITY IMAGING
SYSTEM**

**SCANNING ELECTRON
MICROSCOPE WITH ENERGY
DISPERSIVE SPECTROMETER
(SEM-EDS)**



PYROLYSIS GC-MS

**MICRO LASER RAMAN
SPECTROMETER**





**GAS CHROMATOGRAPH-
MASS SPECTROMETER
(GC-MS)**

**STEREOZOOM BINOCULAR
MICROSCOPE**



DGPS

ICP AES



**RESEARCH GRADE
MICROSCOPIC WITH
PHOTOMICROGRAPH
ATTACHMENT**

**FIELD FOURIER
TRANSFORM INFRARED
RADIOMETER (FTIR)**

