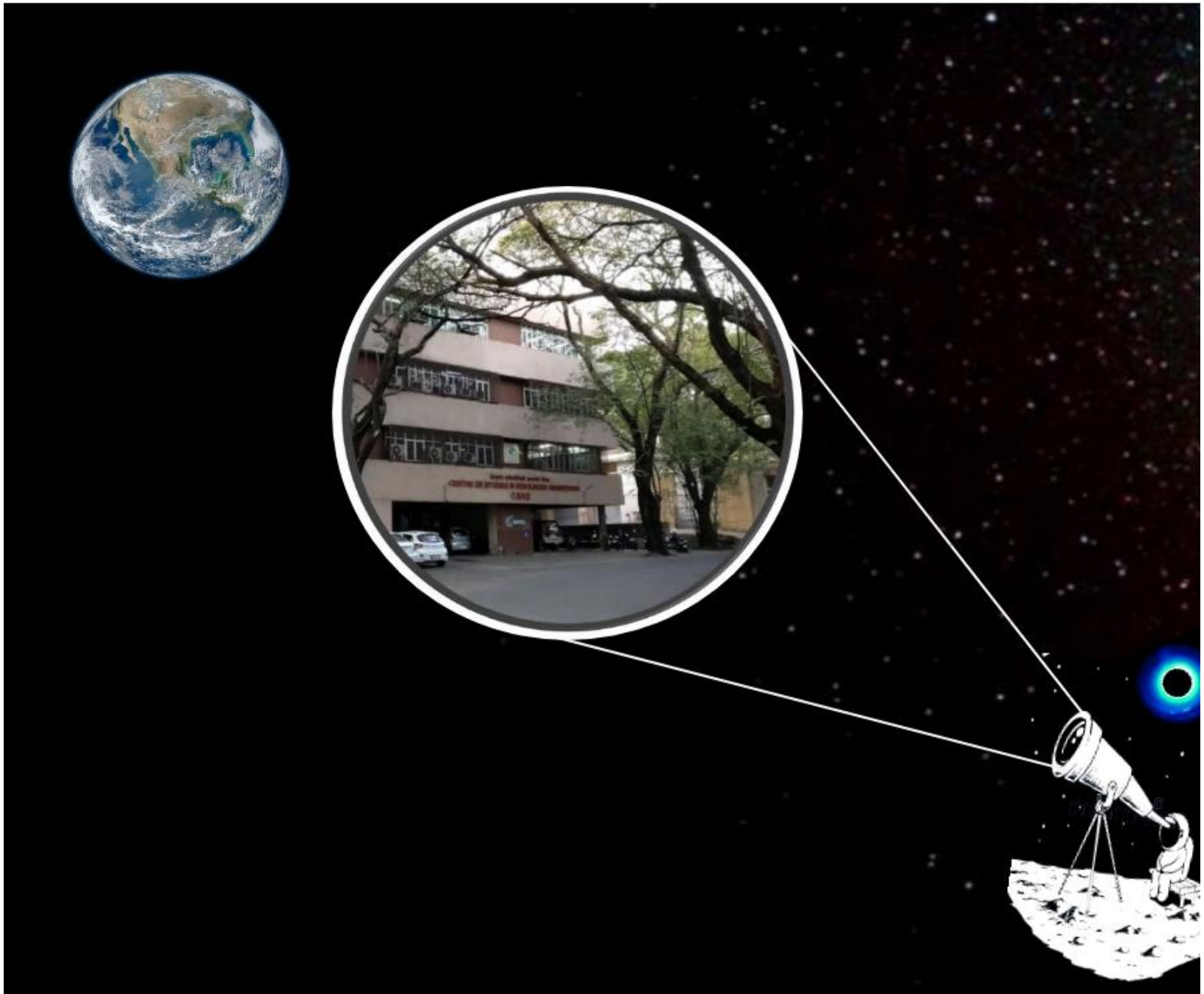


CENTRE OF STUDIES IN RESOURCES ENGINEERING

DEPARTMENT HANDBOOK

2020 - 21

Disclaimer

Though the ISCP (Institute Student Companion Program) has taken care while compiling the handbook, neither the council nor the Institute can be held responsible for errors/inadequacies that may inadvertently creep in. This handbook cannot be used as a basis for making a claim on facilities/concessions/interpretation of rules/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.

Index

Message from Head of Department

Dear Students,

Welcome to IIT Bombay. I wish to congratulate you for all the effort and hard work you put forward for getting into the M. Tech. and PhD programme at IIT Bombay. I extend a very warm welcome to you all at Centre of Studies in Resources Engineering (CSRE).

CSRE is an interdisciplinary academic unit that primarily focuses on Geo-Informatics and Natural Resources. The highly talented Faculty members, Researchers and Students in CSRE hail from a diverse pool of specializations and backgrounds which enables us to undertake inter and intra domain research at the centre. The courses, seminars and projects offered during MTech and PhD program are meticulously designed to provide an elaborate yet interesting introduction to the domain of geo-informatics, while infusing the importance of natural resources. The centre provides you access to state-of-the-art facilities and guidance that will lead your way towards innovative and interesting research. We can ascertain that you will excel in academics and research you conduct here. In addition to academics, we hope to see you participate in a number of institute level activities such as Techfest, Mood Indigo, General Championships, etc. for an all-round development.

Finally, I would like to address the issue that concerns us all: The COVID19 global pandemic. We are all concerned yet confident. We all have certain fears yet we are resolute. We all are overwhelmed yet hopeful. We all know the today has changed, but for a better tomorrow. Let's keep our spirits high and believe that we can sail past any adversity in life. Let's take this pandemic as an opportunity to better ourselves.

Prof. Karthikeyan Lanka (MTech) and Prof Avik Bhattacharya (PhD) are the faculty advisors for your batch and will be the first point of contact in the department for all matters. At CSRE, interaction is the key. So do not hesitate to contact your peers or seniors in any case. Our faculty members, staff and senior students are looking forward to interact with you.

Best wishes and have a pleasant academic journey @ CSRE, IITB

Dr. J. Adinarayana
Professor and Head,
CSRE

Message from Faculty Advisor

Dear Students,

A warm welcome to Centre of Studies in Resources Engineering (CSRE), IIT Bombay. Hearty congratulations on getting selected for our Master's program.

CSRE is a multidisciplinary centre with expertise ranging in the fields of agriculture, water resources, geology, GIS, remote sensing, image processing, geo-semantics, GPS, and machine learning. You can find a broad spectrum of topics to choose for your credit seminar and MTP, which would give you ample scope to address real science challenges. We are here to support your aspirations.

You may be aware that the Autumn Semester 2020 shall be run entirely online, given the Covid-19 situation. Please feel free to contact me in case you have any questions about courses, and fulfilling any other necessary academic formalities related to CSRE.

I hope the pandemic will subside soon and we get to meet in person at the earliest. Until then, stay safe. Good luck!

Prof. Karthikeyan Lanka
Assistant Professor
CSRE Faculty
Advisor, M.Tech
Batch 2020-22

Message from ISCP

Dear New Entrants,

These are tough times, but you are not alone.

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

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

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

The COVID -19 pandemic has affected all of us. For now, Health concerns prevent your arrival in our beautiful lush-green IIT-B campus, it also prevents your participation in hostel activities, sports, cultural activities. There are many things here at IIT-B waiting for

Message from ISCP

you, but the most important thing is the campus, and the buildings do not define IIT-B. It's you. You set the culture, the activities, you represent IIT-B to the world, and you make IIT-B what IIT-B is. So, knowing that time flies at IITB, we strongly suggest participating in things that happen online other than attending lectures, make memories, reach out to us for any queries, and relax with the comfort of your home. At least till we get an opportunity to welcome you into the campus, let's be safe, let's be optimistic and let's keep our learning spirits high.

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

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

Overall Coordinators,
Institute Student Companion Programme (2020-21)

Aakrit Anshuman
+91 8904059856
aakritanshuman1@gmail.com

Satyam Rathore
+91 7389102399
er.satyamrathore@gmail.com

Message from CSRE-ISCP Team

It is a joy to welcome you at CSRE. The centre draws from various disciplines and through the work of the students and the professors, becomes greater than the sum of its parts. You get to widen your horizons by interacting with and learning from people of different backgrounds.

The exposure the centre offers is vast. One studies things as varied as agricultural fields, polar ice-caps, and the surface of Mars. Monitoring understanding these varied places, requires some knowledge of programming, but worry not; it and many other things will be taught to you.

However, do not limit yourself to academics. The campus offers a myriad of opportunities for self-development, and discovery. Arts, culture, sports, yoga or anything else. You will have a chance to participate and learn. Although due to pandemic it might not be possible to explore but as soon as you get chance you will love it.

You probably have been hearing it and you will continue to hear it for a while, congratulations on making it here. Be sure to explore and make use of the opportunities here. I hope you have have a wonderful stay in Bombay, and don't feel alone in this journey we are there for you, feel free to reach out to us, if you need any help.

Abhishek Kumar Ranjan

8148274821

Department Coordinator (ISCP)

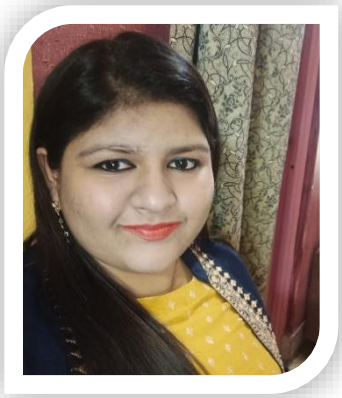
Message from Institute Master's Representative (PGAC)

Dear Freshmen,

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

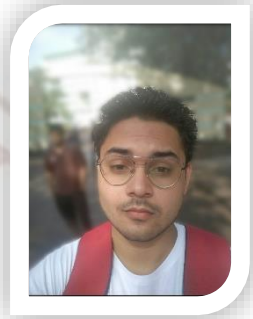
So now all of you are a part of IIT Bombay PG community or "PG JUNTA" as we call them. The institute has a wide range of facilities and services to offer to all its students. This will not only ensure a fruitful educational experience but also promote overall skill development. In the institute there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

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



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

ISCP Team

ABHISHEK KUMAR RANJAN	DEPARTMENT COORDINATOR	193310005@iitb.ac.in 8148274821	
ANSHUL SHRIVASTAVA	STUDENT COMPANION	183310001@iitb.ac.in 9993792498	
ABHIJEET SAROJ	STUDENT COMPANION	193310023@iitb.ac.in 9029635221	
AAZAD PATLE	STUDENT COMPANION	193310001@iitb.ac.in 7507716997	

Message from Department General Secretary

Hello Friends,

Hearty congratulations for making it to the beautiful campus of IIT Bombay - an institute nestled between the lush green hills and a serene lake.

It's a golden opportunity for you all to work with, and learn from professors who are eminent in their respective areas of research. You will be introduced to a dynamic community of enthusiastic learners, who work on diverse ideas, and come out with flying colours.

The Institute organises a number of sports and cultural events throughout the year. Make the best use of these opportunities and resources. The next few years of your life would be the most memorable ones. Have a wonderful stay at IIT Bombay. Explore life to your fullest!

Rupak Bose
8329856972, 8976463378
General Secretary

Department Council

The department council is a student association who is responsible for all academic as well as non-academic student activities of the department. They are responsible to increase the social interaction between the faculties and students as well as among the students of different batches.

POST	NAME	Email/Contact	Photo
GENERAL SECRETARY	Rupak Bose	193310011@iitb.ac.in 8329856972, 8976463378	
SPORTS SECRETARY (GIRLS)	Surabhi Jain	193310009@iitb.ac.in 7897996110	
SPORTS SECRETARY (BOYS)	Aakash Khanderao	193310020@iitb.ac.in 8097257514	
REA SECRETARY	Rohit Kumar	193310006@iitb.ac.in 8969344784, 8709986323	

TECHNICAL SECRETARY	Gollavilli Srikanth	193310016@iitb.ac.in 7278376524, 8240003695	
CULTURAL SECRETARY	Mohit Kumar	193310019@iitb.ac.in 9953821928	
ALUMINI SECRETARY	Sumant Tyagi	193310018@iitb.ac.in 8892424928	
WEB SECRETARY	Pavel Bodle	193310024@iitb.ac.in 8956545436, 7972082273	

Placement team

Placement Cell (a body of student representatives) sends invitations to companies/organizations along with relevant information to conduct campus interviews for their requirements. Following are students from our department who are in institutes placement team.

POST	NAME	Email	Photo
COMPANY COORDINATOR	Dil Thomas	193310002@iitb.ac.in 9567413321	
COMPANY COORDINATOR	Sana Firdaus	193310017@iitb.ac.in 8076731770	
COMPANY COORDINATOR	Farheen Bano	193310022@iitb.ac.in 8420094559	
COMPANY COORDINATOR	Chetan Mahajan	193310003@iitb.ac.in 8770957360	
DEPARTMENT PLACEMENT COORDINATOR	Pavel Bodle	193310024@iitb.ac.in 8956545436, 7972082273	

About The Institute

Established in 1958, the second of its kind, IIT Bombay was the first to be set up with foreign assistance. The funds from UNESCO came as Roubles from the then Soviet Union. In 1961 Parliament decreed the IITs as 'Institutes of National Importance'. Since then, IITB has grown from strength to strength to emerge as one of the top technical universities in the world.

The institute is recognised worldwide as a leader in the field of engineering education and research. Reputed for the outstanding calibre of students graduating from its undergraduate and postgraduate programmes, the institute attracts the best students from the country for its bachelor's, master's and doctoral programmes. Research and academic programmes at IIT Bombay are driven by an outstanding faculty, many of whom are reputed for their research contributions internationally.

IIT Bombay also builds links with peer universities and institutes, both at the national and the international levels, to enhance research and enrich its educational 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.

Over the years, the institute has created a niche for its innovative short-term courses through continuing education and distance education programmes. Members of the faculty of the institute have won many prestigious awards and recognitions, including the Shanti Swaroop Bhatnagar and Padma awards.

Located in Powai, one of the northern suburbs of Mumbai, the residents of the institute reap the advantage of being in the busy financial capital of India, while at the same time enjoying the serenity of a campus known for its natural beauty. A fully residential institute, all its students are accommodated in its 15 hostels with in-house dining; the campus also provides excellent amenities for sports and other recreational facilities.

About The Centre

Established in IIT Bombay in 1976, Centre of Studies in Resources Engineering (CSRE) has grown into one of the premier centres in the country working in the frontier area of Geo-informatics and Natural Resources Engineering.

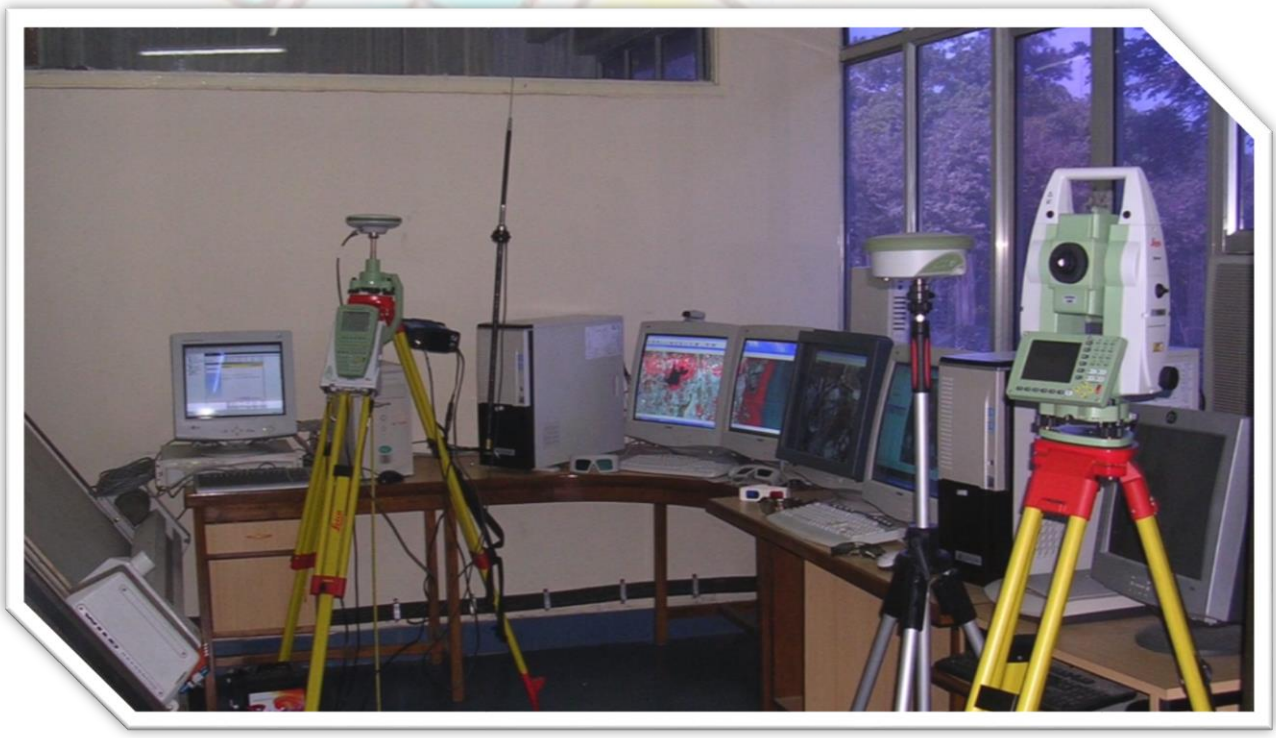
Modern technologies like Geographic Information System (GIS), Global Positioning System (GPS), Satellite image processing and Remote Sensing are used extensively in the Centre in teaching, research, consultancy and continuing education programmes. CSRE has been active in contributing significantly towards the needs of developing and demonstrating the technology of satellite data utilization and development of Geographic Information Systems. The Centre has successfully demonstrated the application potential of remote sensing technology in the programs of disaster mitigation like drought and flood along with national agencies such as ISRO and NRSC. The Centre has also developed mutually beneficial international collaborations to carry out contemporary research programs with Leeds University, UK, Miami and Minnesota Universities in USA, Melbourne University, Australia, Technical University of Budapest, Hungary and ITC and The Netherlands.

Research Areas at CSRE:

- Satellite Image Processing
- Global Positioning System (GPS) and Photogrammetry
- Geo-computational Systems
- Microwave Remote Sensing
- Snow and Glacier Studies
- Geology and Mineral Resources
- Agro-Informatics / Digital-Agriculture
- Environment, natural hazards and disaster management
- Coastal and marine sciences

Research Labs:

- Satellite Image Processing laboratory
- GIS Laboratory
- Geomatics Laboratory
- Photogrammetric Laboratory
- Microwave Remote Sensing Laboratory
- Coastal and Marine Laboratory
- Agro-informatics Laboratory
- Natural Hazard Laboratory



To know more about the center goto--- https://vimeo.com/242822740

Faculty Members

Prof. J. Adinarayana
Professor and Head
Research Interest: Agro-informatics / Digital Agriculture
Email: adi@csre.iitb.ac.in
Contact: +91-22-25767689
Link to website: http://www.csre.iitb.ac.in/adi/

Prof. B. Krishna Mohan
Professor
Research Interest: Digital Image Processing, High-resolution image segmentation and classification, Hyper spectral image analysis
Email: bkmohan@csre.iitb.ac.in
Contact: +91-22-25767684
Link to website: http://www.csre.iitb.ac.in/bkmohan/

Prof. Y.S. Rao
Professor
Research Interest: Processing and analyzing Passive and Active Microwave Remote sensing data for soil moisture and vegetation studies, processing of SAR Interferometry data for DEM and surface change studies
Email: ysrao@csre.iitb.ac.in
Contact: +91-22-25767683
Link to website: http://www.csre.iitb.ac.in/ysrao/

Prof. S.S. Gedam

Professor

Research Interest: Remote Sensing and GIS Applications to Terrain Analysis and Hydrology, Stereo Image Analysis and Digital Terrain Modelling

Email: shirish@csre.iitb.ac.in

Contact: +91-22-25767685

Link to website: http://www.csre.iitb.ac.in/~shirish/index.htm

Prof. Alok Porwal

Professor

Research Interest: Mineral systems studies and mineral exploration, understanding deep-seated mineral systems using a variety of remotely sensed data, GIS-based spatial information integration techniques for predicting mineral potential areas

Email: alok@csre.iitb.ac.in

Contact: +91-22-25767673

Link to website: http://www.csre.iitb.ac.in/~alok/index.htm

Prof. Surya S Durbha

Professor

Research Interest: Geo-semantics, knowledge-based systems, image information mining, cloud computing based Geocomputational systems, remote sensing, geospatial standards,

interoperability, and sensor webs

Email: sdurbha@csre.iitb.ac.in

Contact: +91-22-25767679

Link to website: http://www.geosysiot.in/faculty/

Prof. Avik Bhattacharya

Associate Professor

Research Interest: Optical and SAR Remote Sensing, AR Polarimetry, SAR Interferometry, Polarimetric SAR Interferometry, SAR Statistical Analysis, Image Processing, Statistical Pattern Recognition

Email: avikb@csre.iitb.ac.in

Contacts: +91-22-25767677

Link to website: http://mrslab.in/Avik/

Prof. Gulab Singh

Associate Professor

Research Interest : Remote sensing of cryosphere components, snow and glacier parameters retrieval algorithm/methodology development using SAR interferometry and SAR polarimetry techniques, development of radar polarimetry theory and polarimetric scattering theory, 3D and 4D SAR tomography, monitoring the natural and man-made disaster damages using PolSAR.

Email: gulab.singh@iitb.ac.in

Contact: +91-22-25767656

Link to website: http://www.csre.iitb.ac.in/gulab/

Prof. Biplab Banerjee

Research interest: Machine learning, Deep-learning, and Image analysis.

Email: getbiplab@gmail.com

Contact: +91-022-25727688

Link to website: https://biplab-banerjee.github.io/

Prof. Karthikeyan Lanka

Assistant Professor

Research Interest: Microwave Remote Sensing of Soil Moisture, Applied Hydrology

Email: karthikl@iitb.ac.in

Contact: +91-22-25767665

Link to website:
https://scholar.google.co.in/citations?hl=en&user=olsbxlMAAAAJ&view_op=list_works&sortby=pubdate

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Email:mrlele@iitb.ac.in

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Place: Geomatics Lab
Email:rsnikam@iitb.ac.in

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Place: CSRE OFFICE

Mr. Shridhar Mirgal
Lab Assistant (ISRO)
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Email: o60404@iitb.ac.in

Mr. Popat D Jadhav
Messenger
Place: Geomatics Lab

Mr. Madhu Y Sonkamble
Driver
Place: CSRE OFFICE

Mr. Akshay Ahire
Helper
Place: CSRE OFFICE

Know your Seniors

Roll No	Name	Research Area	Guide
183310001	Anshul Shrivastava	Few-shot learning in remote sensing image classification	Prof. Biplab Banerjee
193310001	Aazad Patle	Remote based sensing Agricultural drought monitoring and forecasting	Prof. Karthikeyan Lanka
193310002	Dil Thomas	DETR model for urban object detection and classification	Prof. B K Mohan
193310003	Chetan Mahajan	Geo Data Cube on Demand using High Performance Computing for Disaster Management	Prof. S. Durbha
193310004	Ali Nasir	Integration of geospatial techniques of urban planning with computer vision	Prof. Karthikeyan Lanka
193310005	Abhishek K R	Incremental learning of land-cover classes	Prof. Biplab Banerjee
193310006	Rohit Kumar	Snow Avalanche deposit detection in the Himalaya using POLSAR Data Science and Deep Learning	Prof. Gulab Singh
193310007	Alex Mathew	Feature engineering from multi-parametric geoscience data	Prof. Alok Porwal
193310008	Aditi Sawant	Change detection using generative deep learning	Prof. Biplab Banerjee
193310009	Surabhi Jain	Sensors Driven Embedded Computing for Rapid Road Monitoring	Prof. S. Durbha
193310010	Swapna Sarit Ojha	Software development for Ground Based time series SAR data and evaluation	Prof. Y S Rao
193310011	Rupak Bose	Data Fusion	Prof. Biplab Banerjee
193310012	Birupakhya Nanda	Deep learning Applications in SAR data	Prof. A. Bhattacharya

193310014	Dharmendra kumar	Deep learning in object detection using SAR images	Prof. A. Bhattacharya
193310015	Tarachandra Vidyasagar	SDSS for optimal farm management using drone-based multispectral and thermal data	Prof. J Adinarayana
193310016	G.Srikanth	Deep learning for Critical Infrastructure protection and Resiliency-COVID 19 Scenario	Prof. S. Durbha
193310017	Sana Firdaus	Deep Learning Regression Algorithms for Biophysical Parameter Estimation from SAR Data	Prof. A. Bhattacharya
193310018	Sumant Tyagi	Landuse landcover mapping from Multiple data sources using machine learning approach	Prof. S. Gedam
193310019	Mohit Kumar	LULC Classification of metropolitan areas using ANN	Prof. S. Gedam
193310020	Aakash Khanderao	Spectral super-resolution of remotely sensed images	Prof. B K Mohan
193310021	Sanjeev ekka	Artificial neural network-based analysis of hyperspectral images for assessing the water quality of inland lake	Prof. S. Gedam
193310022	Farheen Bano	Big Geospatial Data and High Performance Cloud Computing	Prof. S. Durbha
193310023	Abhijeet Saroj	Glacier facies mapping in Antarctica and Patagonia using mutli-temporal SAR data	Prof. Gulab Singh
193310024	Pavel Bodle	Firn area identification and classification in high- and low-Arctic climate using time series SAR data and DL	Prof. Gulab Singh

For more information goto--https://www.csre.iitb.ac.in/m-tech-students.php

Email Id of any student above is ***ROLL_NO@iitb.ac.in***

Cultural at CSRE

Every year CSRE is blessed with students having a plethora of talent. The diversity in CSRE is not just only in terms of academics, but also in the cultural talents of the students. CSRE students have shown enthusiasm in dancing, every genre like singing, dramatics, photography, fine arts, speaking arts, etc. To keep the cultural atmosphere going, a number of events are in place at the institute and departmental level. To list some of the events, Traditional days on festivals, Teachers' day celebrations, Diwali celebrations and a lovely farewell party for graduating batch. With each year passing by, the participation and achievements at the PG Cultural events are on the rise.

Positions held CSRE students at Institute Level Cultural Council

- Mohit Kumar - PGCult Lifestyle Coordinator
- Pavel Bodle - PGCult Photography Coordinator
- Farheen Bano - PGCult Dance Coordinator
- Aaksah Khanderao - PGCult Music Coordinator
- Ali Nasir - PGCult Public Relations and Logistics Coordinator
- Aditi Sawant - - PGCult Public Relations Logistics Coordinator
- Tarachandra Vidyasagar - PGCult Public Relations Logistics Coordinator
- Sumant Tyagi - PGCult Public Relations Logistics Coordinator

Cultural Achievements of CSRE students are as follows

- 1st Runner Up PGCult Group Dance Competition
- 2nd Runner Up PGCult Drama Competition
- 2nd Runner Up PGCult Music Competition
- Winner PGCult Short-film Competition
- Best Director Manoj Kumar (PGCult Short-film Competition)
- Best Cinematographer Manoj Kumar (PGCult Short-film Competition)
- Best Actor Parashuram Shourya (PGCult Short-film Competition)

- Mohit Kumar, Cultural Secretary


GPS

Sports at CSRE

CSRE, though a relatively small academic unit of IIT Bombay, has always been active in sports. PG Sports witnesses the confluence of sports enthusiasts and celebrates excellence, endeavor and team spirit. This is a much needed diversion from the rigorous routine academics, bringing with it promises of an energizing and exhilarating experience. Students had shown great enthusiasm towards Table Tennis, Badminton, Kho-Kho, Cricket, Cycling, Lawn Tennis, Athletics etc. It was not just about winning all the time but having some great time playing together, making great memories that lasts forever and trying to give our best.

In this lockdown situation we organized online chess competition to engage ourselves.

Positions held CSRE students at Institute Level Cultural Council

Chetan Mahajan – PG sports Design Coordinator

Farheen Bano - PG Sports Event Coordinator

Notable sports achievements are as follows:

- Girls Chess Team (Ritu, Surabhi Jain, Sana Firdaus) secured Bronze Medal in Chess PG-GC (2019-20)
- Kaushik Konwar secured Bronze Medal at 54th inter IIT sports meet (2019-20) held at IIT Kharagpur while representing IIT Bombay Team in weightlifting.
- Kaushik Konwar secured Gold Medal at Powerlifting Open 2019, IITB.
- Kaushik Konwar (Institute Weightlifting team) represented IIT-B as vice-captain and secured 4th position in Inter IIT 2018-19 held at IIT Guwahati.
- Kaushik Konwar secured Gold medal and awarded player of the GC in general weightlifting championship and also secured bronze medal.

Aakash Khanderao and Surabhi Jain

Sports secretaries, CSRE


SPORTS MEET
14TH - 22ND DECEMBER 2019
54TH INTER IIT
SPORTS MEET
2019


54TH INTER IIT

Various Clubs in Institute

Cultural Clubs

1. IN SYNC (Dance Club)
2. Fourth Wall (Dramatic Club)
3. SILVERSCREEN (Film and Media Club)
4. SAAZ (Hindi Music Club)
5. TACCATO (Western Music Club)
6. RANG (Fine Arts Club)
7. PIXELS (Photography Club)
8. Literati (Literary Arts and Quiz Club)
9. Book Club
10. VAANI (Speaking Club)

Technical Club:

1. Tinkerer's Lab
2. Technovation
3. Aeromodelling Club
4. Electronics Club
5. KRITTIKA— the Astronomy Club,
6. Maths and Physics Club, The Robotics Club,
7. WnCC—Web and Coding Club
8. TechGSR - Tech Geek Social Responsibility: a Socio Tech non-profit Student body
9. PRATHAM: IIT Bombay's student Satellite program; home to one of the country's first student satellite projects
10. IIT Bombay Racing: Racing Team builds actual race-cars that participate (and win) in international student competitions like Formula Student.
11. UMIC: The Innovation Cell at IIT Bombay aims towards the successful completion of large scale student projects

Sports Club: (Click on any sport for more info)

- AQUATICS
- ATHLETICS
- BADMINTON
- BASKETBALL
- BOARD GAMES
- CRICKET
- FOOTBALL
- HOCKEY
- KHO KHO
- LAWN TENNIS
- SQUASH
- TABLE TENNIS
- VOLLEYBALL
- WEIGHTLIFTING
- ADVENTURE SPORTS
- DARK KNIGHT
- YOGA

Resources Engineering Association (REA)

REA (Resource engineering association) is a CSRE specific body, which started 9 years ago with an aim to create and improve awareness on the significance of Geospatial technologies by bringing together the minds oriented in the same direction, and allows the students to think beyond CSRE classroom. REA is CSRE's own body that has members including all faculty members, current students and alumni of CSRE. This association provides funds for students' activity like sports and cultural programs, in-house functions, seminars, guest talks, conferences (national and international) etc. REA has successfully organized three national conferences, GEOMATRIX, on various advancement in geospatial technologies and applications.

With over 200 members and still growing, REA is planning for organizing some special and interesting events to enhance student skills. We are looking forward for your active participation in these events.

Rohit Kumar,
REA Secretary

Student Wellness Centre

After securing admission at the Institute, you may feel that a lot of parameters around you are different. You would have more responsibilities to handle at 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 at **Student Wellness Centre (SWC)** encourage you to approach them for any problem that you are facing- be it academic, emotional, social or financial- without hesitation.
Counselling provides an opportunity for individuals to learn to make better choices, improve interpersonal skills, develop confidence and increase educational effectiveness. In a one-on-one meeting with a counsellor, students are helped to explore and express feelings, examine beliefs and ways of thinking about their present situation, reflect on patterns of behavior, and work toward making healthier and happier changes.
How to contact?

We understand the need of **virtual (telephonic) counseling** during this pandemic. Therefore,if needed feel free to contact them. The contact details can be found **here**. Know more about SWC here: **SWC Website.**

About Gender Cell

IIT Bombay's Gender Cell is an institutional body which works towards promoting equality, nondiscrimination and gender justice on the campus. It inquires into complaints of sexual harassment through its Internal Complaints Committee (GC-ICC)

Sexual harassment includes any one or more of the following unwelcome acts or behavior:

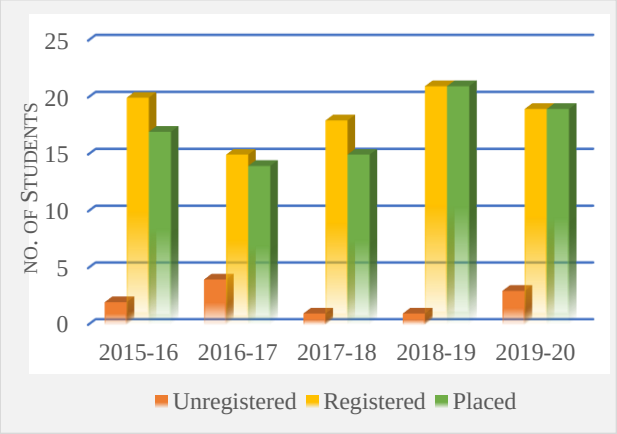
1. Physical contact and advances;
2. A demand or request for sexual favors;
3. Making sexually colored remarks;
4. Sending, displaying or showing of pornographic material in physical form or through any electronic media;
5. Any other unwelcome physical, verbal or non-verbal conduct of sexual nature, and
6. Any other acts or omissions that are of like nature to the instances above.

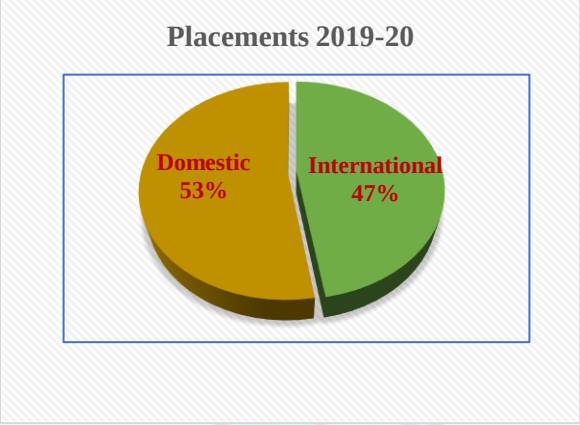
In case you faced any undesirable incident you may write to IIT Bombay's Gender Cell at **gendercell@iitb.ac.in** and they will get back to you within 48 hours. You may also contact any of their student members or PoSH volunteers. You may visit their office or call 5052 during office hours. You should complain within 3 months of the unpleasant incident.
Know more about Gender Cell and its policies here: **Gender Cell Website**

Placements

Established in 1958, IIT Bombay has consistently ranked amongst the best technical institutes in the country. With excellent placement scenario over the years, IIT Bombay attracts some of the brightest minds of the country for their studies.

The placements largely depend on the student's area of interest, caliber and the effort he/she puts in. CSRE is amongst the few departments and centers in the institute to achieve near 100% placement for the past few years. Our alumni have been placed in various reputed national and international firms in excellent job profiles. Core GIS, Analytics, Finance, Consulting, R&D and IT/Software are some of the areas in which our alumni have been placed over the past few years. The average domestic package for the year 2019-2020 has been Rs 20.6 Lakhs/annum while the average international package has been as high as Rs. 34.8 Lakhs/annum.





Some of our past recruiters are:

Core GIS	Archeron Group, Cropin Technology Solutions, Cybertech Systems
Finance	HSBC, Axis Bank, ICICI Prudential, J P Morgan, State Street, Transunion CIBIL
Software/IT	Hitachi, Sony, Yahoo Japan, Oracle, Persistent, Qualcomm, KLA Tencor, Goldman Sachs
R&D	NEC Japan, Rakuten, Sysmex, Mercedes Benz R&D, TCS R&D
Analytics	Boeing India, DataXu, EXL Analytics, LastRoots Japan, Accenture Solutions
Consulting	PwC Diamond, Mckinsey & Co., Deloitte

Pavel Bodle,
DPC

Some Useful Information

Course Structure and Grading Policy:
http://www.iitb.ac.in/newacadhome/MTechRules.pdf

Attendance: Attendance for regular classes is generally taken by the concerned professor during lecture hours, either by biometrics or on paper. Attendance for TAship is to be given for every working day biometrically. Admin is yet t decide this year's policy due to COVID-19.

LDAP ID: It is the unique identification of each individual in IIT Bombay. By default the LDAP ID assigned to you will be your roll number and the associated password will be generated after you have come to the institute and the requisite registration processes are completed.

Webmail: This is your personalized email in IIT B. You will get your Id when you get enrolled in IITB. Link: https://webmail.iitb.ac.in

TA work: TA duty will begin immediately after joining the course. The faculty advisor will appoint TA duty to all the M. Tech. entrants. Once allocated, the students should report to the respective TA supervisor immediately for the assigned work.

Leave Taking: For taking a leave, leave application should be submitted to office one week before its commencement. Permission is needed from the TA Guide or faculty advisor. Total official leaves for TAs are 15 days in a year. This will not be applicable this year as everything will be online.

Key Permission: Key permission is required to use any lab or class-room after office hours. Keys can be issued from the security office.

Gymkhana: Gymkhana is an organization to foster and develop all student activities in the institute. Please visit https://gymkhana.iitb.ac.in/ for more information.

Application Software Centre (asc) – Administration: ASC is the main interactive website for all the administrative requirements of a student. It includes payment of fees, registration and deregistration from courses, checking grades awarded in subjects, brief contents of all the subjects being offered, timetable and a lot more information. For more information, please visit http://asc.iitb.ac.in/

To access this from outside **VPN** is required and might be possible that institute will come with an alternative in future.

Moodle – Academics: This website provides academic interaction between students and faculty for all courses enrolled by a student. One can download study materials/ books/ notes uploaded by a professor/ TA and students can also submit their projects. For more information, please visit http://moodle.iitb.ac.in

Library: The website for the central library offers a search engine for books available in the library. One can check the number of books issued at any given time, renew them and "queue" up for any book already drawn by some other individual. For more information, please visit http://www.library.iitb.ac.in/

CAMP: 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

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

Registration: This document contains step by step guide to registration for freshmen https://docs.google.com/document/d/1IilyR49FuNJE7l2cgrT-iWWPCFItvNVR4A57N1hA-NA/edit#heading=h.oxqvfe1wel35

Some of the important links, which would be required nearly every day during stay at campus:

- Official site of IIT Bombay: http://iitb.ac.in/en/about-iit-bombay
- ISCP: https://gymkhana.iitb.ac.in/~scp/scp/
- All student activities: https://gymkhana.iitb.ac.in/
- Sports affairs: https://gymkhana.iitb.ac.in/~sports/
- Hostel affairs: https://gymkhana.iitb.ac.in/~hostels/
- Cultural: https://gymkhana.iitb.ac.in/~cultural/
- Entrepreneurship cell: https://www.ecell.in

- SARC : http://www.sarc-iitb.org/#
- Software by IITB : http://ftp.iitb.ac.in/
- Lost and found: https://gymkhana.iitb.ac.in/~hostels/lostnfound.php
- Accessing IITB Internal Sites with VPN: https://www.cc.iitb.ac.in/page/services-vpnssh
- Configuring IITB-Wireless in laptop/android/desktop: https://www.cc.iitb.ac.in/page/configurewireless
- Access GPO mail on mobile mail: http://homepages.iitb.ac.in/~yatindestel/docs/GPO%20in%20Gmail.pdf
- Free Licensed Software: https://www.cc.iitb.ac.in/page/services-software
- How to forward GPO mail to Gmail: http://camp.iitb.ac.in/cgi-bin/index.cgi
- Link for External ASC site: https://portal.iitb.ac.in/asc/Login
- Link for Internship Portal: http://placements.iitb.ac.in/internship/login.jsp
- Link for placement portal: http://placements.iitb.ac.in/placements/login.jsp
- Link for academic calendar: http://www.iitb.ac.in/newacadhome/toacadcalender.jsp
- Link for academic timetable: http://www.iitb.ac.in/newacadhome/timetable.jsp
- Link for IITB Holiday List: http://www.iitb.ac.in/en/about-iit-bombay/iit-bombay-holidays-list
- Link for circulars: http://www.iitb.ac.in/newacadhome/circular.jsp

Imp. Pdf required for various things
https://drive.google.com/drive/folders/1OQ75z1iITlVbDuhPn82Kbbv1IZ6U7W6J?usp=sharing

Some Useful Apps

- **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

- **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

- **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

- **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. Detailed instructions are in page 30.
  Download Link:
  https://play.google.com/store/apps/details?id=net.openvpn.openvpn&hl=en_IN

- **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

- **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

- **Aarogya Setu** Aarogya Setu is a mobile application developed by the Government of India to connect essential health services with the people of India in our combined fight against COVID-19. The App is aimed at augmenting the initiatives of the Government of India, particularly the Department of Health, in proactively reaching out to and informing the users of the app regarding risks, best practices and relevant advisories pertaining to the containment of COVID-19.
  Download Link:
  https://play.google.com/store/apps/details?id=nic.goi.aarogyasetu

Advice for Curriculum

Course materials for 1st semester—Professors provide you all the lecture materials.

Information about courses-- https://portal.iitb.ac.in/asc/Courses

Important softwares— There are lots of software which needs to be installed on your system which are very important academic point of view. Installation instructions and sources will be given by course instructor.

1. **ENVI-** Required in coursework lab.

2. **Matlab—** Matlab is very powerful software and it is required in project work or for coding. Institute offers licenses of matlab to students which can be availed by you. As this software is very big and for normal use it is recommended to use matlab online which is very easy and doesn't require any installation. https://www.mathworks.com/products/matlab-online.html

3. **ArcGIS—**Required for coursework lab

4. **QGIS—**It is open source software and capable of doing everything which ArcGIS can do. It can be easily download from QGIS website— https://qgis.org/en/site/forusers/download.html

Coding Knowledge—As this department is an interdisciplinary department so student of various background comes here of whom only handful are familiar with coding so others don't worry you can learn it from scratch. Coding knowledge is required in projects and placement point of view. Python is easy and fast to learn so it is recommended.

Best and easy environment to use is google colab which doesn't require any installations and management. https://colab.research.google.com/

Where you can learn python—

- https://www.geeksforgeeks.org/python-programming-language/
- https://www.youtube.com/playlist?list=PLsyeobzWxl7poL9JTVyndKe62ieoN-MZ3
- https://github.com/wncc/CodeInQuarantine

Additional materials—Upto above is more than enough for 1st semester but still if you manages to have time then you can check out advanced topics like machine learning and deep learning over which you will have courses an projects in next semesters---

SQL

Postgresql Youtube PostgreSQL Tutorials : Learn PostgreSQL From Beginning to Advanced(Beginner's List)

Machine Learning

1. Analytics Vidhya: Analytics Vidhya - Learn Machine learning, artificial intelligence, business analytics, data science, big data, data visualizations tools and techniques. | Analytics Vidhya
2. Analytics Vidhya: https://courses.analyticsvidhya.com/courses/getting-started-with-decision-trees
3. Towards Data Science: Towards Data Science
4. Ali Ghodsi Machine Learning Youtube Videos: Fall 2015 STAT 441/841 CM 763: Classification
5. Understanding Machine Learning - Shai Ben-David: Understanding Machine Learning - Shai Ben-David
6. Machine Learning 2013
7. Nptel Machine Learning: NPTEL MOOC Machine Learning 2016
8. StatQuest: Machine Learning
9. stanford machine learning andrew ng: https://www.youtube.com/watch?v=PPLop4L2eGk&list=PLLssT5z_DsK-h9vYZkQkYNWcItqhlRJLN
10. Machine learning by Andrew Ng Stanford university Lecture Collection | Machine Learning

Deep Learning

1. Edx: https://www.edx.org/learn/deep-learning
2. Coursera :https://www.coursera.org/courses?query=deep%20learning

Additional courses can be learnt by taking some courses over websites like—

- https://www.coursera.org/
- https://www.udemy.com/

Another good source will be---https://shala2020.github.io/
This course was run by IITB faculties to benefit students during quarantine time. It covers topics like machine learning, deep learning from basic level to advanced. It has all recorded video lecture along with notes and even has assignments which can be solved for self-assessment.

A gentle advice—
The projects and assignment of courses requires heavy performance computer and high speed net. As classes will be online so you cannot avail lab facility so you can arrange accordingly. For increasing speed of system you can replace HDD with SSD. If you are planning to buy new laptop then buy one with SSD or else you can upgrade old one with SSD. SSDs can be bought over amazon or flipkart . Information about SSDs you can see over Google or YouTube.
SSD will increase speed by about 10x which will be highly beneficial for your academic purpose.

IITB MAP

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Map Design
Shishir Bhagade, IDC, IITB

Project Guide
Prof. Mandar Rane, IDC, IITB

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Map is not to scale

Parking Bus Stop Garden

ACADEMIC, NON ACADEMIC & SERVICES

Academic & Non academic

ACRE / Advanced Centre for Research in Electronics .. B4 .. 1
Aerospace Engineering .. B4 .. 2
Aerospace Engg. Annex .. B4 .. 3

Bio-science & Bio-engg .. B4 .. 4
Bio-science & Bio-engineering Centre .. B4 .. 5
Bio-sciences & Bio-engineering Department (New) .. C4 .. 6

Cad Centre (Chem. Dept.) .. B4 .. 7
Central Library .. B4 .. 8
CESE / Centre for Environmental Science and Engineering .. B4 .. 9
Chemical Engineering .. C4 .. 10
Chemistry Department .. C4 .. 10
Civil Engineering .. B4 .. 11
Computer Science & Engg. .. B4 .. 12
Computer Science & Engineering Centre (New) .. B4 .. 13
Computer Science & Engineering Department .. B4 .. 14
Construction Division .. B5 .. 15
CSRE / SINE / Centre of Studies in Resources Engineering .. B4 .. 16
CTARA / Centre for Technology Alternatives for Rural Areas .. B4 .. 17

Earth Science Department .. B4 .. 18
Electrical Engineering .. B4 .. 19
Electrical Engg. Annex .. B4 .. 17
Ele. Maintenance Dept. .. B5 .. 20
Ele. Maintenance Division .. B4 .. 21
Ele. Maintenance Division Office (Power House) .. B5 .. 22
Energy Science & Engineering Office .. B4 .. 23
Estate Stores / Office 1 .. B5 .. 24
Estate Stores / Office 2 .. C3 .. 25
Estate Stores / Office 3 .. C2 .. 26

Girish Gaitonde Building / G. G. Building (Ele. Dept.) .. B4 .. 27

Humanities and Social Sciences (HSS) .. B4 .. 3

IDC / Industrial Design Centre B4 .. 28
Inter-disciplinary Prog. In Systems and Control Engg. .. B4 .. 5
IRCC / Indian Research & Consultancy Centre .. B4 .. 29

Kanwal Rekhi Building .. B4 .. 12
KReSIT Building .. B4 .. 12

Lecture Hall Complex 1 .. B4 .. 30
Lecture Hall Complex 2 .. B4 .. 31
Lecture Hall Complex 3 .. B4 .. 32

Main Building .. B4 .. 33
Mathematics Department .. B4 .. 34
Mechanical Engineering .. B4 .. 35
Metallurgical Engg. & Material Science Dept. .. B4 .. 36
Monash Research Centre .. B5 .. 37

Nano Electronics Building .. B4 .. 38
Nano Tech. & Science Research Centre (CRNTS) .. B4 .. 1
NASA / Non- Academic Staff Association .. B4 .. 4
National Centre for Mathematics (Maths) .. B3 .. 39
NCAIR / National Centre for Aerospace Innovation and Research .. B5 .. 40

ONGC Underground Coal Gasification Research Centre (UCG) .. B4 .. 41

Physics Department .. B4 .. 42
Placement Office .. B3 .. 43
Power House .. B5 .. 22
Pre-fab Building .. B5 .. 40
Printing Press .. B4 .. 4

SAC / Students Activity Centre .. B4 .. 44
SAMEER .. A5 .. 45
SINE / CSRE .. B4 .. 16
SOM / Shailesh J. Mehta School of Management .. B4 .. 29
Sophisticated Analysis Instrument Facility (SAIF) .. B4 .. 1
SRE Substation Unit .. B4 .. 46
Stores and Estate office .. B5 .. 47
Systems and Control Engg. .. B4 .. 5

Wadhwani Research Centre for Bio-sciences & Bio-engg. C4 .. 6

Labs & Workshops

Advanced Micro-engg. Lab .. B5 .. 48

Bio-diesel Lab / Bio-diesel Plant (Energy Science Engg.) .. B4 .. 49

Centrifugal Lab .. B5 .. 50
Concrete Technology Lab .. B5 .. 51
Cummins Engine Research facility .. B5 .. 52

ENELEK Power Sine Lab .. B4 .. 53
Energy Systems Lab .. B4 .. 54

Fluid Mechanics and Fluid Power Lab .. B4 .. 55
Fuel Cell Research Facility .. B5 .. 56

Geotechnical Engg. Lab .. B4 .. 57
GMRL Lab / Geophysical and multi-phase Flows Lab .. B5 .. 58
Greenhouse Lab .. A5 .. 59

Heat Pump Lab .. B4 .. 60
Heat Transfer and Thermodynamic Lab .. B5 .. 61
Heavy Structure Lab (Civil Engg. Dept.) .. B5 .. 51
Hydraulics Lab .. B4 .. 62
Hydraulics Lab (New) .. B4 .. 63
Hydraulics Lab Workshop .. B4 .. 64

IC Engine and Combustion Lab .. B4 .. 65

K-Yantra Lab (CSE Dept.) .. A5 .. 59

Machine Lab .. B5 .. 66
Machine Tool Lab .. B5 .. 67
Metal Forming Lab .. B4 .. 68
Micro Fluidics Lab .. B5 .. 69

N1 Bay .. B5 .. 56
N2 Bay .. B5 .. 66
N3 Bay .. B5 .. 70
National Geo-technical Centrifuge Facility .. B5 .. 50

Ortho Cad Lab .. B5 .. 71
Old ONGC Lab .. B4 .. 72

Physics Lab (1st Year) .. B5 .. 40

Refrigeration, A/C and Cryogenics Lab .. B4 .. 73
RM Lab (Rapid Manufacturing) .. B5 .. 74
Rock Cutting Lab .. B4 .. 75
Rock Powdering Lab .. B4 .. 75

S1 Bay .. B5 .. 76
S2 Bay .. B5 .. 67
S3 Bay .. B4 .. 77
SEMT Lab / Structural Evaluation & Material Technologies Lab .. B4 .. 78
SITAC / Structural Integrity Testing & Analysis Centre .. B5 .. 79
Solar Lab .. B4 .. 54
Steam Power Lab .. B5 .. 80
Suman Mashruwala Advanced Micro-engineering Lab .. B5 .. 48
Super-critical fluid Processing facility (Chemical Engg.) .. B5 .. 76

Thermal Hydraulic Test Facility .. B5 .. 81
Tinkerers Lab (STAB) .. B4 .. 73
Treelabs .. B4 .. 73

UG Lab/52 Bay .. B5 .. 66
UG Lab (1st Year) .. B5 .. 40

SEARCH LOCATION BY GROUPS AND SERIAL NUMBERS

Auditoriums and Halls

Convocation Hall .. B4 .. B2
G. Gaitonde Lecture Hall .. B4 .. 27
Lecture Hall Complex 1 .. B4 .. 30
Lecture Hall Complex 2 .. B4 .. 31
Lecture Hall Complex 3 .. B4 .. 32
PC Saxena Auditorium (LT) .. B4 .. B3
Seminar Hall .. B4 .. B4
VMCC / Victor Menezes Convention Centre .. B4 .. B5

Food

Brewberry Cafe .. B3 .. B6
Campus Hub .. A3 .. B7
Gulmohar Cafeteria .. B3 .. 43
Gulmohar Restaurant .. B3 .. 43
Nestle Cafe (Coffee Shack) .. B4 .. B8
Staff Canteen .. B4 .. B9
Sunrise Dhaba .. B4 .. B0
Uphar .. C4 .. 91

Banks and ATMs

ATM - Canara Bank .. B3 .. ATM
ATM - Canara Bank .. A3 .. ATM
ATM - State Bank .. C2 .. ATM
ATM - State Bank .. A3 .. ATM
Canara Bank .. B3 .. 43
State Bank .. C3 .. 92

School

Campus School .. C4 .. 93
Central School .. C4 .. 94
Kendriya Vidyalaya (KV) .. C4 .. 94

Activities & Sports

Badminton Court .. B3 .. 95
Gymkhana Building & Indoor Sports Complex .. B3 .. 95
Outdoor Sports facilities .. A4 .. 96
SAC / Students Activity Centre B4 .. 44
SAC - Indoor (New) .. A4 .. 97
Staff Club .. B3 .. 98
Swimming Pool .. B4 .. 99
Swimming Pool (New) .. A4 .. 100
Tennis Court 1 .. B3 .. 101
Tennis Court 2 .. B3 .. 102

Others & Medical

Alumni Centre .. B3 .. 43
Boat House .. B2 .. 103
Corridor Arch .. B4 .. 104
Hospital .. B3 .. 105
Kshitij Udyan .. B3 .. 106
KV Regional Office .. C4 .. 107
Lake Side Gate (Gate no.1) .. C1 .. 108
Main Gate (Gate no.2) .. C3 .. 109
Market Gate (Gate no. 3) .. C4 .. 110
Medical Store .. C4 .. 91
NCC Office .. B4 .. 111
Paspoli Gate (Gate no. 4) .. A3 .. 112
Plant Nursery .. B4 .. 113
Post Office .. C4 .. 114
Sarovar Udyan .. C2 .. 115
Shopping Centre .. C4 .. 91
Security Check Point .. A3 .. 116
Shishu Vihar .. B3 .. 117
Temple (Padmavati Devi) .. B1 .. 118

ACCOMMODATION, HOSTELS & RESIDENTIALS

Hostels

Hostel 1 .. A4 .. H1
Hostel 2 .. A4 .. H2
Hostel 3 .. A4 .. H3
Hostel 4 .. A3 .. H4
Hostel 5 .. A3 .. H5
Hostel 6 .. A3 .. H6
Hostel 7 .. A3 .. H7
Hostel 8 .. B3 .. H8
Hostel 9 .. A3 .. H9
Hostel 10 Girls' Hostel .. C3 .. H10
Hostel 10 Girls' Annex .. C3 .. H10+
Hostel 10A Girls' (Proj. Staff) .. B5 .. H10A
Hostel 11 Girls' Hostel .. B3 .. H11
Hostel 12 .. A2 .. H12
Hostel 13 .. A2 .. H13
Hostel 14 .. A2 .. H14
Hostel 15 .. A4 .. H15
Hostel 16 .. A4 .. H16

Residential

Ananta (147 - 206) .. A5 .. 46
Aravali (207 - 267) .. A5 .. 47

Director's Bungalow (A1) .. C3 .. A1

Guest House 1 / Jalvihar .. B3 .. G1
Guest House 2 / Vanvihar .. B3 .. G2
Guest House 3 .. B3 .. G3

Nilgiri (268 - 326) .. C4 .. 48

Old Multi-storied Building .. C2 .. 43

Sahyadri (151 - 168) .. A5 .. 65
Satpura (123 - 146) .. C4 .. 45
Shivalik (187 - 240) .. C3 .. 66
Staff Hostel (1 - 23 & 45 - 65) .. B3 .. 142
Staff Hostel Annex (1 - 40) .. B3 .. 142

Tulsi - A (1,2,3 | 7, 8, 9) .. A5 .. 119
Tansa House (Project Staff Resi.) (1 - 128) .. A3 .. 143

Vidya Niwas (VN 1 - VN 45) .. A5 .. 144
Vihar House (HPS 1 - HPS 46) .. B5 .. 145
Vindya (169 - 186) .. A5 .. 65

White House (A | 99 - 110) .. C2 .. 44
White House (B | 111 - 122) .. C2 .. 44

2B-Type Quarters (Residential)

2B- 1 (1 - 6) .. C5 .. 1
2B- 2 (7 - 12) .. C5 .. 2
2B- 3 (13 - 18) .. C5 .. 3
2B- 4 (19 - 24) .. C4 .. 4
2B- 5 (25 - 30) .. C4 .. 5
2B- 6 (31 - 36) .. C4 .. 6
2B- 7 (37 - 42) .. C4 .. 7
2B- 8 (43 - 48) .. C4 .. 8
2B- 9 (49 - 54) .. B5 .. 9
2B- 10 (55 - 60) .. C1 .. 10
2B- 11 (61 - 66) .. C1 .. 11
2B- 12 (67 - 72) .. C1 .. 12
2B- 13 (73 - 78) .. C1 .. 13
2B- 14 (79 - 84) .. C2 .. 14
2B- 15 (85 - 90) .. C2 .. 15
2B- 16 (91 - 96) .. C1 .. 16
2B- 17 (97 - 102) .. C1 .. 17
2B- 18 (103 - 108) .. C1 .. 18
2B- 19 (109 - 114) .. C1 .. 19
2B- 20 (115 - 134) .. B5 .. 20
2B- 21 (135 - 140) .. B5 .. 21
2B- 22 (141 - 166) .. B5 .. 22
2B- 23 (165 - 192) .. B5 .. 23
2B- 24 (193 - 220) .. B4 .. 24

A-Type Quarters/ Bungalows

A- 1 | Bungalow 1 (Director's) .. C3 .. A1
A- 2 | Bungalow 2 .. C3 .. A2
A- 3 | Bungalow 3 .. C3 .. A3
A- 4 | Bungalow 4 .. C3 .. A4
A- 5 | Bungalow 5 .. C3 .. A5
A- 6 | Bungalow 6 .. C3 .. A6
A- 7 | Bungalow 7 .. C3 .. A7
A- 8 | Bungalow 8 .. C3 .. A8
A- 9 | Bungalow 9 .. C2 .. A9
A- 10 | Bungalow 10 .. C2 .. A10
A- 11 | Bungalow 11 .. C2 .. A11
A- 12 | Bungalow 12 .. C2 .. A12
A- 13 | Bungalow 13 .. C3 .. A13
A- 14 | Bungalow 14 .. B4 .. A14
A- 15 | Bungalow 15 .. B4 .. A15
A- 16 | Bungalow 16 .. B4 .. A16
A- 17 | Bungalow 17 .. B4 .. A17
A- 18 | Bungalow 18 .. B4 .. A18
A- 19 | Bungalow 19 .. A4 .. A19

B-Type Quarters (Residential)

B- 1 (1 - 6) .. C3 .. 25
B- 2 (7 - 10) .. C3 .. 26
B- 3 (11 - 14) .. C3 .. 27
B- 4 (15 - 18) .. C3 .. 28
B- 5 (19 - 22) .. C3 .. 29
B- 6 (23 - 26) .. C3 .. 30
B- 7 (27 - 30) .. C3 .. 31
B- 8 (31 - 34) .. C3 .. 32
B- 9 (35 - 38) .. C3 .. 33
B- 10 (39 - 42) .. C3 .. 34
B- 11 (43 - 46) .. C3 .. 35
B- 12 (47 - 50) .. C2 .. 36
B- 13 (51 - 54) .. C3 .. 37
B- 14 (55 - 58) .. C3 .. 38
B- 15 (59 - 62) .. C3 .. 39
B- 16 (63 - 66) .. C2 .. 40
B- 17 (67 - 72) .. C3 .. 41
B- 18 (73-74 & 73A- 74A & 1-4) .. C3 .. 42
B- 19 (75 - 98) .. C2 .. 43
B- 20 (A | 99 - 110) .. C2 .. 44
B- 20 (B | 111 - 122) .. C2 .. 44
B- 21 (123 - 146) .. C4 .. 45
B- 22 (147 - 206) .. A5 .. 46
B- 23 (207 - 267) .. A5 .. 47
B- 24 (268 - 326) .. C4 .. 48

BTR Quarters (Residential)

BTR- A (1,2,3 | 7, 8, 9) .. C2 .. 49
BTR- B (4, 5, 6 | 10, 11, 12) .. C2 .. 49

C-Type Quarters (Residential)

C- 2 (13 - 18) .. C3 .. 50
C- 5 (31 - 36) .. C4 .. 51
C- 6 (37 - 42) .. C4 .. 52
C- 7 (43 - 48) .. C4 .. 53
C- 8 (49 - 54) .. C3 .. 54
C- 9 (55 - 60) .. C3 .. 55
C- 10 (61 - 66) .. C3 .. 56
C- 11 (67 - 72) .. C3 .. 57
C- 12 (73 - 78) .. C3 .. 58
C- 13 (79 - 84) .. C3 .. 59
C- 14 (85 - 90) .. C3 .. 60
C- 15 (91 - 96) .. C4 .. 61
C- 16 (97 - 102) .. C3 .. 62
C- 17 (103 - 108) .. C4 .. 63
C- 18 (109 - 114) .. C4 .. 64
C- 22 (A | 151 - 168) .. A5 .. 65
C- 22 (B | 169 - 186) .. A5 .. 65
C- 23 (187 - 240) .. C3 .. 66

CSRE Quarters (Residential) (Type C-21)

CSRE Buicing- A & B (C139 - C150)
C & D (D1 - D12) .. B4 .. 67

CTR Quarters (Resi.) (Type C-19 & 20)

CTR Building- 19 (115 - 126) .. C2 .. 68
CTR Building- 20 (127 - 138) .. C2 .. 69

DRDO Quarters (Residential)

DRDO (101 - 104, 201 - 204, 301 - 304, 401 - 404) .. A4 .. 70

Guest House/ Accommodation

Guest House 1/ Jalvihar .. B3 .. G1
Guest House 2/ Vanvihar .. B3 .. G2
Guest House 3 .. B3 .. G3

H1-Type Quarters (Residential)

H1- 1 (1 - 12) .. C1 .. 71
H1- 2 (13 - 24) .. C1 .. 72
H1- 3 (25 - 36) .. C1 .. 73
H1- 4 (37 - 48) .. C1 .. 74
H1- 5 (49 - 60) .. B5 .. 75
H1- 6 (61 - 72) .. B5 .. 76
H1- 7 (73 - 84) .. B5 .. 77
H1- 8 (85 - 96) .. B5 .. 78
H1- 9 (97 - 108) .. C1 .. 79
H1- 10 (109 - 120) .. C1 .. 80
H1- 11 (121 - 134) .. B1 .. 81
H1- 12 (135 - 151) .. B5 .. 82
H1- 13 (152 - 168) .. B5 .. 83
H1- 14 (169 - 176) (1A - 2A) .. B5 .. 84

H1 BB-Type Quarters (Residential)

H1 BB (1 - 26) .. B1 .. 85

H2-Type Quarters (Residential)

H2- 1 (1 - 8) .. C2 .. 86
H2- 2 (9 - 16) .. C2 .. 87
H2- 3 (17 - 24) .. C2 .. 88
H2- 4 (25 - 32) .. C2 .. 89
H2- 5 (33 - 40) .. C2 .. 90
H2- 6 (41 - 48) .. C2 .. 91
H2- 7 (49 - 56) .. C2 .. 92
H2- 8 (57 - 64) .. C2 .. 93
H2- 9 (65 - 72) .. C2 .. 94
H2- 10 (73 - 80) .. C1 .. 95
H2- 11 (81 - 88) .. C1 .. 96
H2- 12 (89 - 96) .. C1 .. 97
H2- 13 (97 - 104) .. C1 .. 98
H2- 14 (105 - 112) .. C1 .. 99
H2- 15 (113 - 120) .. C1 .. 100
H2- 16 (121 - 128) .. C1 .. 101
H2- 17 (129 - 136) .. B3 .. 102
H2- 18 (137 - 144) .. B5 .. 103
H2- 19 (145 - 152) .. B5 .. 104
H2- 20 (153 - 160) .. B4 .. 105
H2- 21 (161 - 168) .. B4 .. 106
H2- 22 (169 - 176) .. B4 .. 107
H2- 24 (185 - 192) .. C1 .. 108
H2- 25 (193 - 200) .. C1 .. 109
H2- 26 (201 - 208) .. B1 .. 110
H2- 27 (209 - 216) .. B1 .. 111
H2- 28 (217 - 232) .. B4 .. 112
H2- 29 (233 - 248) .. C1 .. 113

H2 BB-Type Quarters (Residential

H2 BB (1 - 18) .. B1 .. 114

KV Quarters (Residential)

KV- 1 (KV1 - KV5) .. C4 .. 115
KV- 2 (KV6 - KV11) .. C4 .. 116

MW Quarters (Residential)

MW- 1 (MW1 - MW32) .. A4 .. 117
MW- 2 (MW33 - MW68) .. A4 .. 118

PS Quarters (Residential)

PS- Tulsi - A (1 - 24) .. A5 .. 119
PS- Tulsi - B (25 - 48) .. A5 .. 119
PS- Tulsi - C (49 - 80) .. A5 .. 119

Type 1 Quarters (Residential)

Type1- 1 (1 - 12) .. C4 .. 120
Type1- 2 (13 - 24) .. C4 .. 121
Type1- 3 (25 - 36) .. C4 .. 122
Type1- 4 (37 - 48) .. C4 .. 123
Type1- 6 (61 - 72) .. B5 .. 124
Type1- 7 (73 - 84) .. B5 .. 125
Type1- 8 (85 - 96) .. B5 .. 126
Type1- 9 (97 - 108) .. B5 .. 127
Type1- 10 (109 - 120) .. A5 .. 128
Type1- 11 (121 - 132) .. A4 .. 129
Type1- 13 (145 - 156) .. B5 .. 130
Type1- 14 (157 - 168) .. B5 .. 131
Type1- 15 (169 - 180) .. B3 .. 132
Type1- 16 (181 - 192) .. B5 .. 133
Type1- 17 (193 - 208) .. B5 .. 134
Type1- 18 (209 - 224) .. B5 .. 135
Type1- 19 (225 - 259) .. A5 .. 136
Type1- 20 (260 - 289) .. A4 .. 137
Type1- 21 (290 - 309) .. B5 .. 138
Type1- 22 (310 - 321) .. A3 .. 139

QIP Quarters (Residential)

QIP- 1 (1 - 16) .. B5 .. 140
QIP- 2 (17 - 35) .. B5 .. 141

Demolished Buildings:
Type C- 1, Type C- 3, Type C- 4, Type H2- 23, Type1- 5, Type1- 12

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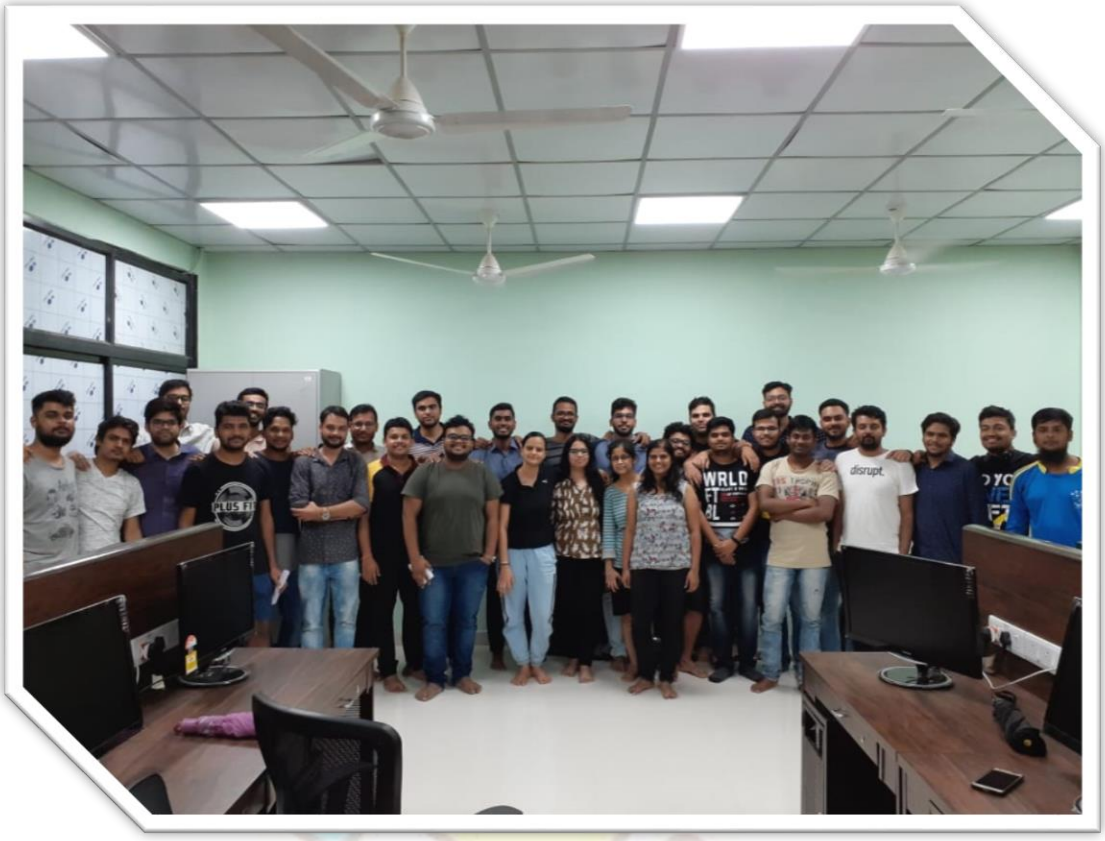


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