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.
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Message from Head of Department

Dear students,

Congratulations on your selection for the M. Tech programme at IIT Bombay. I extend a very warm welcome to you all at Centre of Studies in Resources Engineering (CSRE).

Our Centre is interdisciplinary with professors, researchers and students coming from various backgrounds. We have charted out courses directed at infusing in students, the importance of natural resources and the ingenuity of Geoinformatics.

At our Centre, you will have access to state of the art facilities, to undertake innovative research. We hope that you excel in the academics and research you conduct here. Along with academics, we hope to see you participate in a number of institute level activities such as fests, sports and cultural for achieving all-round development.

Prof. Gulab Singh will be the faculty advisor associated with your batch who will be your first point of contact in the department for all matters. At CSRE, interaction is the key to participate in and reap your benefits. Our faculty members, staff and senior students are looking forward to interact with you.

Best wishes!

Dr. J. Adinarayana
Professor and Head, CSRE
Message from Faculty Advisor

Heartiest welcome to Centre of Studies in Resources Engineering, IIT Bombay.

As CSRE offers an interdisciplinary programme, you all would be quite curious to know about the research work being carried out here. The Centre as well as Institute orientation meetings would be arranged with the help of ISCP team, to provide you information about campus resources and academic programme details.

Please feel free to contact me in case of any queries with respect to curriculum, courses, project or anything else that you may feel necessary to share.

Have a pleasant learning experience and healthy stay at IIT-B. All the Best!

Dr. Gulab Singh
Assistant Professor
CSRE Faculty Advisor,
M.Tech Batch 2018-20
Message from ISCP

Hello, Friends!

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

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

Life in IIT Bombay can appear a little daunting at times, balancing between the academic workload and the plethora of extra-curricular activities. And that is where ISCP can help you blend in and make the most of it. ISCP strives to provide a senior student companion as a mentor to all newly admitted students. New entrants can contact their assigned companion to discuss their academic and non-academic issues or concerns. Student Companions enable the smooth and gentle transition from the graduation days to post-graduation days. New entrants also feel assured that there is somebody on campus to help them and listen to their concerns. Many a times they find a caring friend in companions.

What to expect from a Student Companion:

- Initial information about the campus, courses, academics and extracurricular activities.
- Support in case of any problem or difficulty.
- Organization of various academic and non-academic activities for students.
- Continuous interaction and feedback from students on their needs and requirements.

In short, this is a program by the students of IIT Bombay, for the new students to ensure their overall development through utilization of all the available resources at IIT Bombay.

Let the learning begin. Feel free to contact us anytime!

Email: iscp@iitb.ac.in
Overall Coordinators
Institute Student Companion Programme (2018-19)

Anwesha Lahiri | Sumedh Dey | Basudev Behera
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Message from DC (ISCP)

It’s a joy to welcome you all here. CSRE is an amalgamation of various disciplines, which gives you an opportunity to learn and interact with people from different academic backgrounds. The Centre has students and faculty members from various disciplines and their cumulative knowledge and efforts drive the Centre.

The exposure you get here at this Centre is vast, right from agriculture fields, forests, climate studies, mountains, oceans and Polar Regions to planetary studies of Moon and Mars. Irrespective of the backgrounds you come from, sometimes you will be doing a bit of programming as well. Do come with an open mind and experience every aspect of this interdisciplinary branch. In addition, you will have huge scope to decide your career path whether it is research, industry, entrepreneurship or any other that you wish.

Along with academics, Institute provides a platform to display your talents and enhance your all-round development. You are now in one of the most resourceful university campuses of the country. However, remember to keep yourself driven towards your aim, in CSRE, in IIT and in your life thereafter. This will help you to utilize the facilities at campus and the opportunities you have here, to their best.

I would like to congratulate you all for making it this far. In the 2 years ahead, keep up the same momentum and try to be better socially, intellectually and morally.

I wish you all the very best for upcoming years of your life. Do get back to us for any help.

“Believe in yourself and be prepared to work hard” – Stella Mccartney

Akarapu Umamahesh
DC (ISCP)
[ISCP TEAM]

Akarapu Umamahesh  
Department Coordinator  
Email: 173310015@iitb.ac.in  
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Hobbies and Interest: Travelling, Bike rides, Badminton

Dhanashri Kolekar  
Student Companion  
Email: dskolekar24@gmail.com  
Contact No: 9420696425  
Hobbies and Interest: Kayaking, Reading books

Neha Nande  
Student Companion  
Email: nehanande01@iitb.ac.in  
Contact No: 9660674115  
Hobbies and Interest: Volleyball, travelling, cooking

Purna Ram  
Student Companion  
Email: purnrajkarela@gmail.com  
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Hobbies and Interest: Singing, Cricket, Movies, Reading books

Rohit Minj  
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Sourav Lakhotia  
Student Companion  
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Hobbies and Interest: Cricket, Movies, Hanging out with people
Message from Institute Master’s Representative (PGAC)

Dear Freshmen,

On behalf of all the Master’s students at IIT Bombay, it is my honour to welcome you all here. Congratulations on having made it to one of the premier technical institutes of the country.

You are now a part of the IITB PG community and there are an exhaustive number of services and facilities available to ensure a fruitful educative experience. As postgraduate students, you have already been exposed to university level education. While you will delve deeper into understanding your area of interest better, I urge you to explore more. There are several student led bodies on campus focusing on development of skills, sports and extracurricular activities such as dance, drama, music, etc. Your experience will be what you make of it, and your opportunities will be limited only by the limits you place on yourself. Utilize the opportunities to the best of your ability. Along with academics, do explore and make the most of the excellent facilities the institute has to offer.

As the Institute Masters Representative, my team and I, aim to address your grievances and help you to the best of our abilities. Supporting you in your academic endeavours is our foremost priority and we will strive to improve the IITB experience in all the ways we can. On this note, I, once again, welcome you to IIT Bombay and wish you every success in your future endeavours.

Jasmeen Kaur
Institute Masters Representative
PG Academic Council
IIT Bombay
Email: imr@iitb.ac.in

Pritish Pawar
AURAA, CSRE
PG Academic Council
Email: pritishv.pawar@gmail.com
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 and rural development
- Environment, natural hazards and disaster management
- Coastal and marine sciences
Faculty Members

Prof. J. Adinarayana
Professor and Head
Research Interest: Agro-informatics
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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
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Contact: +91-022-25767684
Link to website: http://www.csre.iitb.ac.in/bkmohan/

Prof. R. Nagarajan
Professor
Research Interest: GIS application to physical resources & environment, assessment of water demand and supply, Natural disaster - landslide and drought vulnerable area identification & alert information system for decision-making
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Prof. A. B. Inamdar
Professor
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Contact: +91-022-25767682
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:** +91-022-25767683  
**Link to website:** [http://www.csre.iitb.ac.in/ysrao/](http://www.csre.iitb.ac.in/ysrao/)

Prof. S.S. Gedam  
Professor  
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**Link to website:** [http://www.csre.iitb.ac.in/~shirish/index.htm](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  
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**Contact:** +91-022-25767673  
**Link to website:** [http://www.csre.iitb.ac.in/~alok/index.htm](http://www.csre.iitb.ac.in/~alok/index.htm)

Prof. Surya S Durbha  
Associate Professor  
**Research Interest:** Geo-semantics, knowledge-based systems, image information mining, cloud computing based Geo-computational systems, remote sensing, geospatial standards, interoperability, and sensor webs  
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**Link to website:** [http://www.csre.iitb.ac.in/~sdurbha/](http://www.csre.iitb.ac.in/~sdurbha/)
Prof. Avik Bhattacharya
Associate Professor
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Email: avikb@csre.iitb.ac.in
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Prof. Gulab Singh
Assistant 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.
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Mr. Shyam Madangopal
Jr. Administrative Assistant
Place: CSRE OFFICE

Ms. Arti A Bhosale
Assistant (Casual)
Place: CSRE OFFICE

Mr. Dhaku Tukaram Kadam
Mechanic Assistant
Place: XRF Lab

Mr. Shridhar Mirgal
Lab Assistant (ISRO)
Place: CSRE OFFICE

Mr. K P Revi
Library Attendent
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Mr. Popat D Jadhav
Messenger
Place: Geomatics Lab

Mr. Madhu Y Sonkamble
Driver
Place: CSRE OFFICE

Mr. Datta Narayan Dhas
Driver
Place: CSRE OFFICE
Face of CSRE in the Institute

Technical

We have a large number of publications in various reputed journals and conferences, such as the IEEE Transactions on Geoscience and Remote Sensing. Students have presented research papers in various National and International conferences like SPIE, Whispers (IEEE), Geomatrix’14, ACAM’15 (sponsored by NASA), FOSS4G ASIA and ESRI India. The Centre demonstrated ongoing research work in Techfest’17. Students are also active in various coding competitions and groups. The department also boasts of having three students proposal selection in the Google Summer of Code 2018 (Aarif Shaikh, Aasheesh Tiwari and Garima Natani).

For the incoming batch of students, we will have introductory sessions in C++, Python, MATLAB and Git due to their applications in varied domains in CSRE. Various events and workshops are in place throughout the year at Institute level including Python, R, LaTeX workshops. GNR being an interdisciplinary program brings together the best minds in various fields of study for a common objective. Rest assured, learning experience is available for those who seek it out!

Notable technical achievements during the year 2017-18 are as follows:

- Ph.D Scholar Ms. Shradha Mohanty is awardee of the ‘Fulbright Nehru Doctoral Research Fellowship 2017-18’. She also received Outstanding Student Paper Award (SPA category) AGU Fall Meeting 2017.
- First prize in I_Hack, hosted at the Entrepreneurship Summit ‘18, IIT Bombay (Mr. Abhishek Potnis, Aman Verma, Pankaj Tarone, Rajat Shinde and Aarif Shaikh).
- First prize in AndroNG Hackathon organized by Web and Coding Club, IIT Bombay (Purna Karela, Rishabh Jain and Sourav Lakhotia).

- Megh Shukla, Technical Secretary

Cultural

Every year CSRE is blessed with students having plethora of talents. 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 every genre like dancing, singing, dramatics, photography, fine arts, speaking
arts etc. To keep the cultural atmosphere going, a number of events are in place at institute and departmental level. To list some of the events, Traditional days on festivals, Teachers’ day celebrations with equal enthusiasm from students as well as faculty, Diwali celebrations and a lovely farewell party for graduating batch. With each year passing by, the participations and achievements at the PG cultural events is on the rise. The overall ranking of CSRE in PG Cult this year is 9\textsuperscript{th} out of 25. In fine arts, dance and photography, CSRE showed outstanding performance.

Achievements in the year 2017-18 are as follows:

- Third prize in Department Flag Making competition in PG-cult Phase 1 (Ankit Kothari, Megh Shukla, Neha Nande and Vishakha Pandey).
- Second prize in group dance in PG-cult Phase 2 (Ashvitha Shetty and Neha Nande).

- Pratik Ninawe, Cultural Secretary

**Sports**

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. CSRE ended up with good participation in the PG Sports for the year 2017-18. 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.

Notable sports achievements for the year 2017-18 are as follows:

- Bhagyashree Gaikwad (Inter IIT Volleyball player) has been awarded with the title of ‘PG Passing Out Color 2018’.
- Dayal Chand Aichara was named as Player of GC (for scoring highest points in Basketball PG General Championship 2017-18).
- Girls Volleyball Team secured silver medal in PG GC.
- Boys Basketball Team bagged bronze medal in PG GC.
- Garima Natani and Vishakha Pandey secured silver medal in Girls’ Football Open.

- Omprakash Saini, Sports Secretary
Resources Engineering Association (REA)

REA (Resource engineering association) is a CSRE specific body, which started 7 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.

- Janardan Roy, REA Secretary
Welcome Notes

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!

- Rishabh Jain, General Secretary

Hello everyone,

Congratulations for making it to IITB and extend my cheerful welcome to CSRE Family. I hope you are preparing to get settled into the beautiful atmosphere of IITB.

As a web nominee of our department, I am open to your suggestions. If you have any issues regarding CSRE website, then help me in guiding you and feel free to contact me. Enough technical talks, enjoy the roller coaster life here. :D .. All the best!!

-Rosalin Maharana, Web Secretary

Hi guys,

GNR is an inter disciplinary course with students from various backgrounds. The students admitted to GNR have varied background domain viz. CSE, Electrical, Agriculture, Civil, Mining etc. Thus, this creates a large alumni network.

The aim of Alumni secretary is to maintain and update the alumni contacts. For the new comers a proper guidance is necessary in technical, academics and various other aspects.

Graduated students know very well, the situation and problems a student face as they have gone through the similar phase. Their guidance and suggestions are very effective and helpful. Workshops would be arranged catering to the technical and academic needs of the students.

-Jayesh Guntupalli, Alumni Secretary
Department Council

**Rishabh Jain**  
General Secretary  
Contact No: 9039999274  
Email: 173310019@iitb.ac.in

**Janardan Roy**  
REA Secretary  
Contact No: 7407394298  
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**Jayesh Ravindra Guntupalli**  
Alumni Secretary  
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Technical Secretary  
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**Omprakash Saini**  
Sports Secretary  
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**Pratik P Ninawe**  
Cultural Secretary  
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**Rosalin Maharana**  
Web Secretary  
Contact No: 9439431719  
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Placements

At IIT Bombay, every Department/Center has equal and many opportunities in placement seasons every year, which has made our institution outstanding in terms of on-campus placements statistics. CSRE has a reputed and glorious past. Most students are placed in firms they like and profiles they preferred. The placements have been in the boom since 2012. Year 2016 and 2017 marked the highest placement record for the Centre. Therefore, as the years go by, CSRE 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 students’ 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 this course and the institution for themselves.

Registered Vs Placed in Phase-1 for past 3 years

Student alumni of this branch are placed in the most reputed companies. Every company has provided good profiles and handsome salaries. Some of our past recruiters are: Oracle, Rakuten, McKinsey & Company, Sony India, Ericsson, DataXu, Yahoo Japan, Doc Suggest, Cognizant, Gulf Talent, Prudential UK, NEC Japan, HSBC Global, JP Morgan Bank, Persistent, Saffron, Willis, CyberTech systems, KLA-Tensor, Policy boss, TCS R&D, EXL Analytics, Axis Bank, Prudential etc.

For any further details, please contact the DPC.

Aasheesh Tiwari
Department Placement Coordinator (DPC)
Email:173310004@iitb.ac.in
CSRE in Institute Placement Team

Akarapu Umamahesh
Company Coordinator
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Gowtham R
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Parth Maheshwari
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Pratik P Ninawe
Company Coordinator
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Rishabh Jain
Company Coordinator
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Some Useful Information

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.

GPO – e-mail: An official email ID will be provided to everyone having initials as roll number followed by iitb.ac.in. All the communication from the institute and department is done through this mail ID (also known as GPO mail). For checking GPO mail box visit gpo.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.

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

Instimap: Instimap is an app available in play store for navigation within the campus. From the app, one can easily locate all the hostels, academic sections, residential areas and other infrastructures present in the Institute.

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 de-registration 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/](http://asc.iitb.ac.in/)

**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](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/](http://www.library.iitb.ac.in/)

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

ISCP: [https://gymkhana.iitb.ac.in/~scp/scp/](https://gymkhana.iitb.ac.in/~scp/scp/)
All student activities: [https://gymkhana.iitb.ac.in/](https://gymkhana.iitb.ac.in/)
Sports affairs: [https://gymkhana.iitb.ac.in/~sports/](https://gymkhana.iitb.ac.in/~sports/)
Hostel affairs: [https://gymkhana.iitb.ac.in/~hostels/](https://gymkhana.iitb.ac.in/~hostels/)
Cultural: [https://gymkhana.iitb.ac.in/~cultural/](https://gymkhana.iitb.ac.in/~cultural/)
Entrepreneurship cell: [https://www.ecell.in](https://www.ecell.in)
Software by IITB: [http://ftp.iitb.ac.in/](http://ftp.iitb.ac.in/)
Lost and found: [https://gymkhana.iitb.ac.in/~hostels/lostnfound.php](https://gymkhana.iitb.ac.in/~hostels/lostnfound.php)
Gallery

Celebrations at CSRE
Outings
Student Life
Designed and Maintained by

CSRE ISCP Team 2018-19

Special mentions for their valuable contribution in making this handbook

Ankit Kothari
Parth Maheshwari

“We all can work; but together we win “.

-Anonymous