CTARA

HANDBOOK 2022-23



ISCP FRESHER'S HANDBOOK

INSTITUTE STUDENT COMPANIONSHIP PROGRAMME





CENTRE FOR TECHNOLOGY ALTERNATIVES FOR RURAL AREAS,OLD CSE BUILDING, IIT-BOMBAY, MUMBAI, MAHARASHTRA



This handbook is prepared by the ISCP team.

Disclaimer

Although 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 alike. 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.

MESSAGE

HEAD OF CTARA

Dear students of 2022-24 batch,

Welcome to CTARA family!!

First of all, heartiest congratulations on getting successfully admitted to the M.Tech. (Technology and Development) program at the Centre for Technology Alternatives for Rural Areas (CTARA) at IIT Bombay. You might be aware that you have been picked through a rigorous selection process from a large pool of candidates who were eager to join our program. I appreciate your decision to join this somewhat unconventional post-graduate program, and also expect that you will bring with you the enthusiasm and aspirations that you expressed during the interviews.

The last couple of years had been quite different. We have been through the phase of coping up with the COVID-19 pandemic and the "online instructions". Now we are moving back from the "new normal" to the "old normal" i.e., from the online to in-person classes. Though this is a much familiar terrain, both of us (instructors as well as students) may need some time and personal adjustment for this transition. So let us be ready for this change.

Let me reiterate and emphasize few things about the program, as you prepare yourselves to join CTARA and probably transform the course of your career and life:

- The program was started with an objective to sensitize science/engineering graduates towards the wider needs of the society. What is the role of "Technology" in addressing the "Development" issues? Today we need professionals across various sectors who can work at the interface of "Technology" and "Development"
 hence the focus of the program is on the connector "and" between these two key words. This is an interdisciplinary program, which will require you to be open to new ideas, fields and subjects and "unlearn" some of the past ways of doing/ thinking while absorbing new perspectives and methodologies.
- 2. "Field work" and "Stakeholder Engagement" are the key features of the research work undertaken at CTARA, which is mostly "Demand-Driven" and addressing issues of the unorganized and disadvantaged sections of our society. CTARA faculty work in various domains such as technology assessment, grass-root interventions, governance, policy, and consultancy. We regularly engage with several NGOs, government

agencies and ministries. Please go through CTARA's website (www.ctara.iitb.ac.in) to familiarize yourselves with the various initiatives and research projects enlisted by individual faculty.

Many of you have expressed "social service" as the motivation to join the program. Though I appreciate your altruism, please keep in mind that this is a professional degree program. Please don't leave your science/engineering knowledge and skills behind! You should build on that base using the inputs received through the program at CTARA.

As mentioned earlier, the semester will be conducted in "offline" mode. The students from your senior batch (2021-23) have been through the experience of attending the online semesters as well as some offline sessions. Please interact with them, as they can suggest some coping strategies and survival tips! Please remember that timely and open communication is very critical. So, apart from connecting with your classmates and seniors, please feel free to contact me, and/or your Faculty Advisor (or any other faculty members) regarding any issues that you are facing.

Looking forward to meet you in-person and work with you over the coming months.

Best regards,

- Anand B. Rao



Prof. Anand B. Rao
 <u>a.b.rao@iitb.ac.in</u>

MESSAGE

FACULTY ADVISOR

Dear Students,

Namaskar,

As a Faculty Advisor, it is a pleasure at my part to write this welcome note for finally joining CTARA. You all are amongst the few, out of nearly 1083 applicants, on whom the faculty members have laid their confidence. Congratulations.

The pursuit of CTARA, now onwards including you all, is to come up with technology solutions for the people at bottom of the pyramid who are challenged on daily basis due to both location and circumstances, especially in rural areas. At the outset, you will find the problem to be too big to be handled. However, at CTARA, through various courses, projects and field visits/stays you will get to understand and analyze these problems, in first hand, and get to learn how to address them.

Your journey through IIT Bombay will make this equally exciting since at one hand you are going to be at the thick of technology and modern world and on the other hand your feet need to be on the ground, not to lose the sight of problems for finding workable solutions. You are here to acquire the most of what IIT Bombay can offer, be it in education, sports, culture, etc. But of these, one thing that you will surely cherish for rest of your life will be friends.

With your head and heart at right place, I am confident that it will set out a Domino's effect towards realizing the mission of CTARA. Welcome to the first click.!



Prof. Charuchandra Korde

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MESSAGE

ISCP Team

Dear students,

Heartfelt congratulations for embarking on one of life's most memorable journeys—the journey of learning. The prestigious institute of IIT Bombay welcomes you aboard.

Your dedication, hard work and perseverance brought you here, and we are confident that your experience will lead you towards great opportunities. Owing to the ongoing covid-19 pandemic, the onboarding will be online. However, rest assured that we are there to assist you in any way possible, from smooth orientation to cope with academic pressure.

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, 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. The scope of these is not limited just to academics. Various online events will be organised by the cultural, technical, and sports clubs in IITB, like code in quarantine, fitness challenges, dance challenges and many more. 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 IITB campus; it also prevents your participation in hostel activities, sports, cultural activities.

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

We welcome you to IIT Bombay— A journey where you Learn, Grow and Enjoy. The campus of IIT Bombay awaits your presence; we will soon see you there.



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Dipankar Kuli Overall Co-ordinator 215060006@iitb.ac.in 8638272899

Overall coordinators Institute Student companion programme (2022-23) IIT Bombay iscp@iitb.ac.in



Abhishek Raman Overall Co-ordinator 213040033@iitb.ac.in 8789676472



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Ananda Charan Khatua Cabinet Member 215060023@iitb.ac.in 6370574104

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MESSAGE

PGAC TEAM

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!



Mohit Meena Institute Secretary of Academic Affairs Master's Contact No.- 8006080474 Email: <u>imr@iitb.ac.in</u>

MESSAGE

DEPARTMENT GENERAL SECRETARY

Dear All,

It is an honor and privilege for me to welcome you on behalf of all Masters's and Ph.D. students of the Centre for Technology Alternatives for Rural Areas (CTARA), IIT Bombay. Huge Shout-out and congratulations to each of you for making it into one of the country's most competitive and premier institutes. CTARA has its unique and experienced faculty. You are now a part of the CTARA family, where you will get ample opportunities to explore multiple disciplines mainly focused on rural development.

You are about to begin one of the most exciting times in your life. I know you must be having feelings full of emotions like warmth, happiness, laughter, excitement, and fear. However, let me assure you on behalf of (the student council) that this will be a memorable period for you all. Try to connect more with your colleagues and seniors, be participative, be extraordinary, and then see how time flies.

As a Secretary of CTARA's Student Council, our team and I will work hard to address all your concerns and help you to the best of our abilities. Our main priority is to support you in your academic endeavors, and we will try our best to make your CTARA experience fruitful.

To conclude, I urge you to interact with all your seniors and build strong bonds with them. I would also like to ask you to be enthusiastic and participative in every event. Try to be extraordinary in every case to stand out and shine your way out. We all have very high expectations from all of you!



Ambadas B. Maske Department General Secretary, CTARA Contact No.- 8180873259 213350018@iitb.ac.in

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ABOUT 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 programs. The alumni have distinguished themselves through their achievements in and contributions to the 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 programs as well as to mobilize financial support.

Over the years, the institute has created a niche for its innovative short-term courses through continuing education and distance education programs. 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 CTARA



ABOUT US

Over the past decades, India has witnessed significant and rapid changes in several spheres and at an increasingly fast speed. The economic reforms and the policies of liberalisation, globalisation, and privatisation have resulted in momentous changes in perspectives, policies and practices about technology, development, and the interrelationship between the two. CTARA (The Centre for Technology Alternatives for Rural Areas) is also gearing itself to face the challenges posed by these changes through research projects as well as new academic and training programs. CTARA hosts M. Tech. Program in technology and Development (started in July 2007) and a PhD program. Apart from these programs, CTARA also offers technology and Development supervised learning (TDSL) courses to the B.Tech students across the institute.

CTARA has achieved international recognition as a centre that focuses on critical issues that impact rural communities. Rural issues and problems are complex and interdisciplinary in nature. Rural communities have faced unique challenges during COVID-19 like fewer resource availability. CTARA has over the years developed relations with various governmental departments at the centre and in different states; industrial houses, and non- governmental/ community-based organisations.

OUR VISION

To use our knowledge, expertise and skills for the benefit of the marginalized as well as disadvantaged sections of society in the neglected regions of the country.

OUR MISSION

Our long-term mission is to make a contribution at the perspective, policy and practice levels to all dimensions of the interrelationship between technology and Development, including the techno- economic, economic, socio-cultural, legal, governance and institutional aspects. Our medium-term mission is to establish CTARA as a leading academic and research centre. CTARA believes in carrying out multi-disciplinary, multi-dimensional and grounded policy studies and research on key technology and development related sectors and issues. Further, CTARA carries out the Development and dissemination of technologies relevant to the felt needs of rural society, especially of neglected sections and regions.



FACULTY AT CTARA



Prof. Anand B. Rao (Head of CTARA)

Energy and Environment, Climate Change, Carbon Capture and Sequestration, Renewable and Energy Efficiency, Sanitation and Waste Management, Rural electrification, Energy Policy and Planning, Technology Assessment

a.b.rao@iitb.ac.in



Prof. Amit Arora

Boenergy, Boprocessing, Downstream Processing, Food Processing, Membrane separations, Process Design and Development, Microwave Technology, Paper and Pulp Engineering

aarora@iitb.ac.in



Prof. Bakul Rao

Environmental impact framework for rural areas, State of environment studies, Field assessments & Remediation, Matrix characterization, Climate change

bakulrao@iitb.ac.in



Prof. Pankaj Sekhsaria

Science and Technology Studies, S&T visioning and policymaking, Technology, Society and Development, Oitizen Science, Wildlife Conservation, Island Studies, Andaman and Ncobar Islands, Media Studies

pankaj.sekhsaria@iitb.ac.in

FACULTY AT CTARA



Prof. Satish B Agnihotri

Child malnutrition, Renewable Energy and Energy Policy, Gender, Rural development and technology scale up, Use of Mapping Techniques in social Sector planning, Public Policy

sbagnihotri@iitb.ac.in, sbagnihotri@gmail.com



Prof. Chaaruchandra Korde

Sustainable Infrastructure for Rural, Agricultural and Urban Landscape ranging from housing, bridges, tunnels, cattle shelters, grain silos, warehouses, etc., Prefab and Precast Constructions; Bamboo Structures and its composites; Concrete Technology

chaarukorde27@gmail.com



Prof. Pennan Chinnasamy

Surface water and groundwater management, water accounting and budgeting, remote sensing, Large Data Analysis, GIS and climate change impact on water resources.

p.chinnasamy@iitb.ac.in



Prof. Rupal Dalal

Pediatric Care and Medicine, 1st 1000 days health and nutrition of child, Lactation Education, Community involvement in Pediatric nutrition and urgent care issues.

dalal_rupal@yahoo.com

FACULTY AT CTARA



Prof. Vishal R Sardeshpande

Thermal engineering and heat transfer, Product development, Energy efficiency and benchmarking, Solar energy, Social enterprise, Technology for rural MSME (Mcro small medium enterprises), Bogas / biomass systems

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Prof. Priya Jadhav

Rural Electrification, Energy efficiency, Energy usage in irrigation: Technology and Farmer behavior, Solar Photovoltaics, Organizational models in electricity distribution.

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Prof. Subodh Wagle

Analysis of On-Ground Performance of Public Policies, Policy and Institutional Dimensions of Solar Technology Dissemination, Analysis of Regulatory Governance in India, Urban Water Issues

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Prof. Parmeshwar Udmale

Agriculture, Droughts and Water Scarcity – Transdisciplinary Research; Water-Energy-Food-Qimate Nexus; Natural Disaster Risk and Resilience in Rural Livelihood Context; Food Security and Supply Chains – Present and Future; and SDGs – in Rural Areas Context.

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LABORATORIES &

RESERCH FACILITIES

NAME OF LAB	FACULTY-IN- CHARGE	LOCATION
Food Processing lab	Prof. N G Shah	FI Shed Silicate
Environmental lab	Prof. Bakul Rao	A-MAT Building, 1 st floor
Sustainability lab	Prof. Bakul Rao	A-MAT Building, 1 st floor
Bioprocess lab	Prof. Amit Arora	A-MAT Building, 1 st floor
Electrical lab	Prof. Priya Jadhav	A-MAT Building, 1 st floor
Workshop	Prof. Amit Arora	Basement Mech. Engg.
Nutrition Group	Prof. Satish Agnihotri	S-16, CTARA, Old CSE
TDSC		S-17, CTARA, Old CSE
RuTAG	Prof. Satish Agnihotri	S-18, CTARA, Old CSE
M.Tech. Sitting Splace		S-19, CTARA, Old CSE
Sustainable Water, Agriculture, and Rural Development Lab (SWARD)	Prof. Permeshwar D. Udmale	-

RURAL TECHNOLOGY ACTION GROUP [RuTag]

Rural Technology Action Group or RuTAG is a brainchild of the Principal Scientific Advisor (PSA) to the Government of India. RuTAG was devised to be a mechanism to achieve rural advancement through S&T interventions. The interventions are essentially demand-driven and have a focus on problems associated with marginal communities in rural areas. The projects undertaken are:



UNNAT MAHARASHTRA ABHIYAN [UMA]

Unnat Maharashtra Abhiyan (UMA) is a project of the Ministry of Higher and Technical Education, Government of Maharashtra. Its mandate is to build an independent and public knowledge infrastructure for the state of Maharashtra which will bring socio-economic and cultural development for its people, especially those in the bottom 80% of the socio-economic strata. Some work done by UMA includes:





https://www.ctara.iitb.ac.in/en/uma

NUTRITION GROUP

CTARA at IIT Bombay has a team of faculty members and students interested in issues of child malnutrition. Students in CTARA are already working on issues related to child malnutrition in specific areas, as well as for context specific planning at the District Level, both as part of their curricular activity and through UNICEF-CTARA Fellowships.



https://poshancovid19.in/Resources.html

https://poshancovid19.in/Monitoring.html

TECHNOLOGY & DEVELOPMENT Solution Cell [TDSC]

Technology and Development Solutions Cell is a resource centre for providing technology-based solutions for the development sector. TDSC started in 2013 as a platform for graduating engineers who wanted to explore their role in the development sector. Today, TDSC employs fresh B.Tech and M.Tech as project staff and also accepts interns from various backgrounds. Some of projects undertaken include:



FELLOWSHIPS

UNCEF-CTARA Fellowships under the Child Nutrition (ChiNu) Centre of Excellence

UNICEF has supported CTARA with five Fellowships covering the second year of M.Tech and one year post-M.Tech with a stipend of Rs 15,000 pm and Rs60,000 pm respectively. The Fellowship scheme has now evolved into a Centre of Excellence (CoE). Fellows work on issues related to child malnutrition in the country in fields like data analytics, geo- analytics, products and programme intervention and capacity building. The fellows have done well academically, including participation in conferences abroad based on their papers/posters and in job terms by getting nutrition-related jobs with UNICEF, The Coalition for Food and Nutrition Security (CFNS), Piramal Swasthya among others.

BAIF

CTARA (IIT-Bombay) and BAIF (baif.org.in) recently collaborated for three-year Fellowship programme called "BAIF-CTARA" fellowships. The fellowship scheme is covering second Year of MTech and one year post M.tech as a Project staff with a stipend of Rs 15,000 pm and Rs 50,000pm respectively. Mission of this Fellowship programme is to create cadre of development professionals for rural development to foster technological and programmatic solutions in the domains such as Agri-nutrition, Renewable Energy, Soil/Water Management.

Technimont

CTARA (IIT-Bombay) and Technimont recently collaborated for two-year Fellowship programme called "Technimont-CTARA" fellowships. The fellowship scheme is covering first and second Year of MTech with a stipend of Rs 12,500 pm and Rs 15,000pm respectively. Mission of this Fellowship programme is to create cadre of development professionals for rural development to foster technological and programmatic solutions in domains.

FELLOWSHIP STUDENTS (2021-23)

Student name	Organization
Sashwat Ghai	BAF
Om Agrahari	BAF
Yashwant Nandi	BAF
Akanksha	Technimont
Shaiwali Shukla	Technimont
Lakshmi R Hegde	GSELab
Abhitabh Sharma	GSELab



MTECH PROJECTS (2021-22)

STUDENT NAME	PROJECT		
Kritika Rai Dwivedi	A State Level Dashboard for HMIS Data Analysis		
Ajay Panwar	Validation and Understanding the need for a novel DAP hybrid tractor using battery technology ensuring bull utilization and sustainable farming		
Shreyas Bohre	Analysis of challenges to watershed management interventions in India and their evaluation using hydrologic model		
Milindkumar Ukey	To evaluate the impact of counselling of mother during the antenatal and postnatal period on reducing malnutrition among babies under 6 months of age		
Rachna Tripathi	Development of indices and systems for monitoring performance of irrigation electricity distribution system		
Md Aquib	Identify the potential of bamboo in building structures		
Sameer Kumar Misra	Understanding CTARA social enterprises and how the ecosystem in India helps in supporting them		
Vikas Rathaur	Exploring the existing potential business models in renewable energy sector		
Anand Kumar Ravichandran	Study of Performance of Primary Teachers Working in Rural Government Schools Through the Lens of Street Level Bureaucracy Theory		
Mohd Abdul Wase	What is Citizen Science and its evolution Globally? How Citizen Science evolved in India? What are the ongoing projects in Citizen Science in India and its review? What are the positive and negative aspects of Citizen Science? What are the hurdles and challenges and how can it be looking forward?		
Litan Debbarma	Assessment of dependability on surface water for domestic needs and its quality impacts in India		
Tresa Maria	Clean cooking interventions in a tribal village of India Case study of Bancha, Madhya Pradesh		
Abhishek More	Declining child mortality and persistent malnutrition analyzing the riddle		

PLACEMENT (2021-22)

Student name	Company	Role
Deepak kumar Sharma	Piramal Foundation	Program manager- IT operations
Nshant Jiotode	Piramal Foundation	Sr. Manager- IT TechOps
Litan Debbarma	The Goat Trust group of social ventures	Program manager
Karun Papreja	Indian Political Action Committee (I-PAC)	Data scientist
Yashwant Ngdikar	IQMA	Software Engineer
Mlindkumar Ukey	Legato Health Technologies	Associate software engineer- Al
Rachna Tripathi	Zee Entertainment Enterprises Limited	Data scientist
Kıran Kumar B	McKinsey Knowledge Center	Analyst- Client Capability Network
Kaustubh Patil	Kotak Mahindra bank	Advance data scientist
Priya Assudani	Rebel Foods	Business Analyst
Arshee Rizvi	OLA	Assistant Manager- Business Analyst
Rahul Singh	ICIC securities limited	Data Analytics
Mohd Abdul Wase	Pvic PL	Consultant/associate
Shreyas Bohre	Pvic PL	Consultant/asssociate
Vikas Rathaur	Pvic PL	Consultant/associate
Rushikesh Patil	ICICI Lombard GIC Ltd.	Sr. Manager- Analytics & process
Md Aquib	Kotak Mahindra Bank	Business Analyst
Satya Prakash	Piramal Foundation	Business Analyst
Yashu Chaudhary	Hero Motocorp	Senior Engineer IoT
Saran Nshok	First Cry	Product Manager
Richa Khadelwal	KPMG	

GRADING POLICY

For every course taken by the students, he/she is assigned a letter grade on his/her combined performance in all the assessments. These grades are described by the following letters and corresponding grade points.

Grade	Remarks	
AP	10	
AA	10	
AB	9	
BB	8	
BC	7	
CC	6	
CD	5	
DD	4 (Min Passing grade)	
FF	0 Fail (Eligible for one reexam)	
FR	0 Fail (Repeat the course)	
DX	Fail (Lack of attendance)	
W	Dropped	
PP	Passed	
NP	Not Passed	
AU	0 Passed	

FF and FR grade

The letter grades FF and FR shall be treated as failure grades. Re-examination may be permitted for a course if he/she obtains FF grade. After such re-examination if the student passes in that course, he/she will be awarded the maximum grade of DD in that course. If a student does not take or fails in the re-examination, he/she will be awarded the grade FR.

Audit Grade

A student wanting just an exposure to a course, without the rigors of obtaining a letter grade, can register a course in 'Audit' mode. A course can be audited provided the course is offered in the semester as a credit course for others, and there is no slot clash. Prior permission of the Instructor is required. To complete a course in 'Audit' mode, the student has to fulfil the requirements as set by the course instructor, such as submission of assignments and minimum performances in in-semester evaluations. A course, successfully completed in 'Audit' mode, can not be considered towards the requirement of Minor or Honors. A student, on successful completion of the requirements of a course in 'Audit' mode, will be eligible for a 'AU' grade. The 'AU' grade carries zero grade point and is not included in SPI/CPI calculations. The 'AU' grade will be shown in the Transcript. In case a student fails to complete the requirements of a course, registered in 'Audit' mode, the instructor will not assign any grade and the student will be de-registered from the course. The same will be deleted from the student's registration, as it will be assumed that the course has been dropped by that student. PG students can audit a maximum TWO courses per semester.

DX Grade

" 'DX' grade is awarded to students who have inadequate attendance as per following : IIT Bombay expects one hundred percent (100 %) attendance from its students. If the attendance of the student, as counted with effect from the first contact hour, falls below eighty percent of the total attendance expected, the instructor may award the student, a 'Drop due to inadequate attendance', 'DX' grade in that course. For the purpose of CPI calculation, the 'Drop due to inadequate attendance' Grade would, be treated as equivalent to a 'Course Drop' carried out on initiation by the student. In calculating attendance, no specific concession may be given for lack of attendance on Medical grounds. Further, if a student has 80% attendance or more, he/ she cannot be awarded the 'DX' grade."

Incomplete Grade (II)

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

Dropping of course(s)

The last date for dropping a course by the student will be two weeks after the mid-semester examination for the semester-long courses and one week after the mid-semester examination for the half-semester courses. The last date for course drop will be included in the Academic Calendar. After the last date of course adjustment, a student can drop course(s) till the last date of dropping, as announced in the academic calendar. Such courses will appear in the transcripts and final grade card with a 'W grade (withdrawn grade). These courses will have no impact on SPI/CPI.

Grade Improvement

A student in a PG Programme, where minimum CPI for coursework is 6.0, will be eligible for repeating a course for grade improvement if he/ she has a CPI less than 6.0 and has been permitted by PGAPEC to continue in the Programme on Academic Probation.

For Grade improvement, a student has to re-register in the course in a subsequent semester if the course is offered. The grade obtained in the re-registered course will supersede the earlier grade and the same will be reflected in the Semester Grade Card and in the final transcript.

The student can avail this option only for TWO courses in the entire programme and only ONCE for a specific course.

Attendance

Attendance in classes is compulsory and will be monitored. A student not having 80 per cent attendance may be debarred from appearing in the semester-end examination and given XX grade, and such student has to re-register for the same course. In general, the institute expects 100% attendance. The 80% attendance is permitted only for health or another emergency situation. A medical certificate from IITB hospital or Government hospital is necessary for getting leave on health grounds. The mode of taking attendance for every class in a course is decided by the course instructor and can be either manual or biometric. (Note: These are the normal practices and not applicable for the current semester).

GENDER CELL

IT 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) inquiries into complaints of sexual harassment through its Internal Complaints Committee (GC-ICC). The GC and GC-ICC strive to work towards an equal environment where men and women are afforded equitable treatment and equality of opportunity conducive to their professional growth.

LINK: https://www.gendercell.iitb.ac.in/tnw.html

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 the academic level. Take heart, and 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, It is essential 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, we as Counsellors encourage you to approach us 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.

LINK (http://www.iitb.ac.in/swc/en)

SC/ST STUDENTS CELL

The SC/ST Students Cell addresses academic and non-academic issues and complaints received from students in reserved categories. The institute strives to maintain an environment where all communities can participate in academic and research activities without any sort of discrimination with respect to caste or creed. In order to maintain such an atmosphere, the SC/ST students cell is responsible for sensitizing the campus community about the importance of having diversity.

The cell is where any complaints by students about discrimination and/or harassment are to be brought up. We encourage student-victims to feel free to write to the cell. The cell strives to ensure that anonymity is maintained throughout the investigation.

LINK (https://www.iitb.ac.in/en/scst-students-cell)





ACHIEVEMENTS OF CTARA

Student name	Event Name	Rank/Position
Sashwat Ghai	ITB-ACTE Mapathon	Winner
Meherban Ali	ITB-ACTE Mapathon	Wnner
Harshit Agrawal, Yashwanth Nandi	Techfest NOCODE ML	6th position
Harshit Agrawal	Dekho Apna Desh Quiz Episode 03 by Ministry of Tourism, Government of India under "Azadi ka Amrit Mahotsav	Winner
Tavishi Harpalani	PG Cult phase 1 Design Vogue it competition Conducted by PG Cult (IIT Bombay)	1st position
	Fine Arts Wanderlust competition Conducted by PG Cult (IIT Bombay)	Special mention
Shiwam Dewangan	Music Informals , Solo Instrumental Conducted by PG Oult (IIT Bombay)	2nd
	Institute Power lifting competition	2nd
	Road Runner , PG General Championship	3rd

MISCELLANEOUS LINKS

- Accessing IITBInternal Sites with VPN
 https://www.cc.iitb.ac.in/page/services-vpnssh
- Link for Academic Calendar
 http://www.iitb.ac.in/newacadhome/toacadcalender.jsp
- Link for Academic Timetable
 http://www.iitb.ac.in/newacadhome/timetable.jsp
- Configuring IITB-Wreless 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
- Rules and Regulations for MSc. http://www.iitb.ac.in/newacadhome/rulesPGjsp
- Link for External ASC site https://portal.iitb.ac.in/asc/Login
- Link for Central Library
 https://www.library.iitb.ac.in/
- 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 ITBHoliday List http://www.iitb.ac.in/en/about-iit-bombay/iit-bombay-holidays-list
- Link for Circulars
 <u>http://www.iitb.ac.in/newacadhome/circular.jsp</u>

IMPORTANT INFORMATION YOU SHOULD KNOW!

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.

<u>Moodle</u>: It is the website that provides for academic interactions between faculty and students in IIT Bombay. 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. (http://moodle.iitb.ac.in)

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

ASC: This is the main website for all your administrative needs. You can pay your fees, register for courses, check syllabi of various courses and also check your own academic performance and many other things. http://asc.iitb.ac.in

CAMP: The following things will be available on CAMP Website

- 0 Changing Password
- o Changing UserID (Only Once)
- o Modifying Personal Details
- o Set / Reset mail Auto Reply Text
- o Set / Reset mail Forwarding Address
- o Department Sys-Ads List
- o Hostel Sys-Ads Lists
- o Find your UserID from Roll number / Employee Number <u>https://camp.iitb.ac.in/</u>

USEFUL MOBILE 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 & recreation.

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. 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.

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

Safe App

Safe is used by many faculties to take online proctored exams. https://play.google.com/store/apps/details? id=com.iitb.cse.arkenstone.safe_v2&hl=en_IN&gl=US

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 an MYBYK near you. Unlock using your smartphone and pedal your way to a healthy life.

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

SHRUCAFÉ

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

Apps for Online lectures

Zoom: https://play.google.com/store/apps/details? id=us.zoom.videomeetings&hl=en_IN&gl=US Microsoft Teams: https://play.google.com/store/apps/details? id=com.microsoft.teams&hl=en_IN&gl=US Google Meet: https://play.google.com/store/apps/details? id=com.google.android.apps.meetings&hl=en_I N&gl=US

DEPARTMENT ISCP TEAM



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DC

SC

Digvijay Patil Student Companion

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PRAGATI MAGAZINE



It was released on 26th Jan, 2022 and it covered information about professors, research happening in the centre, students' achievements, field visits etc.

Extra Co-curricular Activities

Sports



Cultural



Not just study, IIT Bombay is popular for its cultural activities also. Asia's biggest cultural fest 'MOOD INDIGO' happen every year in our campus.

There are various clubs in IIT which makes the arena of culture more diverse.

Name of few clubs are

- Vaani (Indian language)
- Literature club
- Rang (Fine Art club)
- InSync (dance club)
- Forthwall (dramatics)
- StyleUp (fashion club)
- Symphony (Music club)
- Pixel (Photography)

MESSAGES FROM SENIORS!



Greetings to everyone who has joined the CTARA family. The journey will become increasingly intriguing. Throughout the road, there will be ups and downs, but they will eventually add up to positive growth



Congratulations for making yourself an IITan. Welcome to most dynamic family of CTARA



Hey guys, Welcome to CTARA family and IIT Bombay. Hope you are ready to explore infinite opportunities and journey of adventure



Welcome to CTARA! Be the change and bring the change



Welcome all to CTARA family. Be prepared to write this message for your juniors, next year



FIELD VISIT



Field Stay (TD 609)















Cultural



Various Clubs



Campus Tour



Facilities



Campus Map



WELCOMETO CTARA FAMLY