



# भारतीय प्रौद्योगिकी संस्थान, भिलाई

## Indian Institute of Technology Bhilai



2024

STUDENTS'

INFORMATION

BROCHURE

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# DIRECTORS DESK

I want to start by congratulating you on your admission to the Indian Institute of Technology Bhilai and warmly welcoming you to our institute. IIT Bhilai, established in 2016 and its permanent campus dedicated to Nation by Honorable Prime Minister in Feb 2023. Our institute shifted fully to its expansive permanent campus in August 2023, and our students now have access to a wealth of resources and possibilities.

You will soon find that the infrastructure and facilities that we have easily rivals the best anywhere else in the country. Our academic programs are designed to meet the vision of NEP 2020, and our faculty have attracted a great number of projects of social and national importance. In a short span of time, we have expanded considerably and now offer BTech in six disciplines, MTech in 11 disciplines, MSc in three disciplines, and PhD in 13 disciplines.

The next few years will be amongst the most enriching and enabling of your life. You will naturally have many questions and concerns regarding the road ahead. To ensure that you do not feel alone or under pressure at any step of the journey, we have established a Student Mentorship Program (SMP) to facilitate your seamless transition from JEE rankers to IITians. Since many of you are new to the institute and will be leaving your home for the first time, it is understandable that you might find getting used to your new environment challenging. SMP mentors at IIT Bhilai will assist you at every stage, both before and after you have been enrolled, to make you feel welcome in our academic community.

IITs have always been at the forefront of technological and scientific innovation in not just India but the world. Our far-reaching and impactful presence in the global arena should remind all of us of the crucial role we play in the advancement of the frontiers of human knowledge, wisdom, and experience. I urge you to pledge ourselves to a renewed vision for the nation and humanity. There will be challenges on the way: you will have to put in a lot of effort to shape not only this institution's identity but also your own career. However, working with and learning from each other as a team, I am sure we will be able to rise to the need of the hour. I wish you well as you embark on this journey and look forward to watching your growth and progress with satisfaction.

Prof Rajiv Prakash  
Director, IIT Bhilai

# **Dr. Suchetan Pal**

## **Faculty In-charge, Dean of Students' Affairs**

At the onset, I wish you hearty congratulations and a warm welcome to the IIT Bhilai Family. Most of our institute activities are led by students who we believe are the heart and soul of our family. Our beautiful and developing campus will provide you with the comfort of home while you embark on your academic journey. You will remember the journey and the friends you make during the journey, not the destination. We are elated that you have chosen IIT Bhilai as your destination for the next few years of your academic journey. At IIT Bhilai, you will get ample opportunities to excel in academics and extracurricular activities. In the next few years, you will be mentored by our world-class faculty members. On campus, you will also develop extracurricular activities based on your interests and passions. I am sure you will have a fruitful stay and memorable experiences at IIT Bhilai. You can contact the Students' Affairs office with any questions or problems regarding your stay at IIT Bhilai.



# **Dr. Dhruv Pratap Singh**

## **Faculty In-charge, Dean of Academic Affairs**



With a great joy and sense of pride I on behalf of the Office of academic affairs welcome you to the IIT Bhilai family. Creating the right ambience on campus for a vibrant knowledge and intellectual system is one of our top priorities. I am confident that you will get the best facilities and ambience in our new campus. Role of an academic institution is to generate and disseminate knowledge among the society for further growth and wellbeing. IIT Bhilai is committed to provide a conducive environment and resources to acquire technical skills and foster innovation. I am sure that you will devote your time into academics and gain a lot of knowledge, skills, and experiences during your stay with us and grow as an individual. The office of Academic Affairs ensures the overall growth of students by offering a conducive and constructive learning environment. We will make sure that we support and encourage you as you embark on your academic journey with us.

# **Dr. Vishwesh Jatala**

## **Faculty In-charge, Student Mentorship Program**

I congratulate and welcome you all for being admitted to the IIT Bhilai. The student mentorship program at IIT Bhilai organizes orientation programs for the new batch of students to get familiar with academics, institute facilities, student life, and various events. The institute provides a vibrant environment and ample opportunities to excel in technical skills and actively participate in co-curricular activities. As you arrive new to the institute, the team of the student mentorship program is dedicated to providing you with all the assistance and support you need. I wish you a memorable stay at IIT Bhilai and a successful career.



## **Dr. Rukmankesh**

### **Associate Head, Department of Bioscience and Biomedical Engineering**



Congratulations on your admission to IIT Bhilai. We welcome you and wish you the very best for your stay at IIT Bhilai. We believe that your journey here will help you achieve your professional goals. IIT Bhilai aims to provide the best opportunities for its students. The newly established Department of Biosciences and Biomedical Engineering (BSBME) focuses on applying science and engineering principles to develop fundamental knowledge and its applications in the realms of biology. The interface between biology and engineering as incorporated in BSBME is one of the exciting fields of the 21st century. We aim to inculcate cutting-edge research in the field along with world-class teaching. We shall train the students to tackle real-world biomedical and biotechnological problems.

## **Dr. Sanjib Banerjee Associate Head, Department of Chemistry**

The Department of Chemistry is committed to engaging in high-quality research and pursuing excellence in teaching. It offers Institute core courses and departmental electives for undergraduate BTech and postgraduate MTech students of Engineering in the Institute. It also offers a two-year MSc program and a PhD program in Chemistry. The department has distinguished faculty members trained at renowned institutes in India and abroad. The Department offers a vibrant atmosphere to nurture the spirit of scientific inquiry and to pursue cutting-edge research in a highly encouraging environment.



## **Dr. Souradyuti Paul Associate Head, Department of Computer Science and Engineering**

On behalf of the department of Computer Science and Engineering, I congratulate you on joining IIT Bhilai, the youngest and one of the most aspirational institutes in the country. I welcome you all to this vibrant and energetic campus. You will very soon find yourselves surrounded by scores of technological and innovation activities that our faculty members and students undertake. The CSE department runs two very important disciplines (or branches) of study: CSE and DSAI. Our faculty members are top-notch and are second to none. They are involved in research projects and pedagogical activities of enormous impact.



They cannot wait to offer you the richest of an academic experience during your stay on this campus in the upcoming years. With the large bouquet of core and elective courses, and research projects being offered, we train our students to become leaders in their respective fields, be it in industry or academia or public service. Our students have always made us proud (and there is no reason to believe it to be different in the future too): they get job offers from the best of the companies in the industry; they go to the world's top universities for further study. Our laboratory facilities – teaching and research both -- have been massively overhauled recently to allow the students to work in an environment that is at par with any other institute. Growing our laboratory facilities and computational infrastructure further is also in the works. Last but not least, as the old adage says “All work and no play makes Jack a dull boy”, your calendar will hopefully be always full with events pertaining to many exciting extra and co-curricular activities happening on our lush green new campus. Finally, I wish you a happy journey in IIT Bhilai.

# **Dr. Avishek Adhikary**

## **Associate Head, Department of Electrical Engineering**

On behalf of the department of Electrical Engineering, I congratulate all the students on qualifying various competitive exams of the country and making it to IIT Bhilai. A warm welcome to you all. We hope to receive you all on the award-winning vibrant permanent campus of IIT Bhilai. IIT Bhilai harbors the unrelenting ambition to be in the vanguard of technological leadership and innovation, both nationally and globally. Your technical journey in the department will be comprising of a vibrant set of theoretical courses, hands-on experiments in laboratories having the latest equipment and interesting research projects. Apart from the technical aspects, I hope that all of you will participate actively in co-curricular activities and make your stay in IIT Bhilai an enjoyable and enriching experience.



# **Dr. Sreejith T V**

## **Associate Head, Department of ECE**

I am pleased to warmly welcome you as you embark on this exciting journey towards becoming engineers. I also thank you for showing confidence in IIT Bhilai by joining us. The faculty members and staff at IIT Bhilai will work for the best interest of your personal and

professional aspirations. The Department of Electronics and Communications represents one of the most promising technical fields in today's world, and it has a great responsibility in Nation building when the country is looking at self-reliance in the fields of communications and electronics. The Institute (IIT Bhilai) is new and the department of ECE is also just coming up. You will find very young and eager faculty members trying to make significant progress in technology, thereby creating a place for IIT Bhilai and the department of ECE in the National technical education and research landscape. You are welcome and encouraged to make the best use of this opportunity for yourself, as well as make the IIT Bhilai and the ECE department a great place. You can approach faculty members, including me, for any assistance. Once again, welcome to the exciting and rewarding world of engineering. I wish you all the best in your academic pursuits and beyond.



## **Dr. Anubhav Pradhan, Associate Head, Department of Liberal Arts**

Contrary to received wisdom, the Indian Institutes of Technology are specially suited to the pursuit of excellence in the liberal arts. The commitment to scientific temper and societal relevance which constitutes the bedrock of the IIT ecosystem is conducive to furthering our understanding of societal processes and systems. The prestige and respect which IITs command at not just the national but also the international scale enable scholarship to transcend the barriers of academia to reach the realms of policy and governance, thereby synergising the relationship between scholarship and society. The Department of Liberal Arts at IIT Bhilai was established keeping these in mind, with three core disciplines of Economics, Literature, and Psychology. Our faculty and scholars are working on varied areas within these disciplines, ranging from developmental economics to memory studies to positive psychology. We offer elective courses to undergraduate students in these disciplines, while our doctoral programme acts as the core degree anchoring our department. We take pride in having built a scholarly culture of active debate and interaction, manifesting in regular external lectures, workshops, and conferences. This has



allowed us to be in sync with the world at large, even as we reflect on and strengthen our praxis as scholars and educators. We look forward to working with you, teaching as well as learning from you, through the course of your association with us over the next few years.

## **Dr. Raghavender Medishetty Associate Head, Department of Materials Science and Metallurgical Engineering**

On behalf of the Department of Materials Science and Metallurgical Engineering at IIT Bhilai, I extend a warm and heartfelt welcome to all of you who have recently been admitted. Your journey with us promises exciting opportunities, cutting-edge research, and a vibrant academic environment. As a relatively new department, we are

poised to lead in technological breakthroughs and their practical applications. Our focus extends beyond theory to real-world impact. We have established state-of-the-art research facilities both within our campus and through collaborative efforts. These resources empower you to explore, innovate, and contribute to scientific advancements. Our strategic location near the historic SAIL-Bhilai Steel Plant—the oldest steel plant in India—offers unparalleled opportunities for industrial exposure. You will witness firsthand the intricacies of steel production, laying a strong foundation for your future endeavors. Surrounding our campus are several industries eager to engage with our students. Through internships and collaborations, you will gain practical insights, network with professionals, and bridge the gap between academia and industry. Our curriculum emphasizes the latest industrial technologies and processes. You will delve into research, acquire peer-reviewed knowledge, and align your skills with current industry demands. Our faculty members bring a wealth of experience from world-renowned institutes. Their research contributions and commitment to teaching ensure that you receive the highest quality education. At IIT Bhilai, we uphold

international standards in education and training. Your journey here will prepare you for a successful and fulfilling professional career. In closing, I wish each of you a pleasant and enriching stay at IIT Bhilai. May your time here be filled with learning, growth, and memorable experiences. Welcome aboard, and here's to a brilliant future ahead!



## **Dr. Avijit Pal** **Associate Head, Department of Mathematics**

On behalf of the Department of Mathematics, I would like to warmly greet all of you. Gaining a comprehension of Mathematics is a crucial requirement for achieving eminence in the domains of Engineering and Science. The department offers assistance to all students at the Institute, both at the undergraduate and postgraduate levels, who are studying Engineering. The programme provides a selection of mandatory and elective courses tailored exclusively for Bachelor of Technology students. The department aims to attain mathematical brilliance by means of instruction. We are successfully attaining our objectives with the aid of exceptionally skilled faculty members in our department. Furthermore, our department provides a postgraduate programme in Mathematics and Computing, along with a doctoral programme that attracts research in all domains of the discipline.

Your association with IIT Bhilai is a direct result of your

diligent endeavours up to this point. I urge you to persevere in your diligent efforts as you establish your career in the future. Our faculty members aim to collaborate with you in order to provide guidance and assistance. Our goal is to help you understand that choices taken in the present can have a long-lasting effect on your future. May you be blessed with good prosperity in all your future endeavours. May you attain remarkable success in every facet of your life and bring substantial acclaim to this Institute.



## **Dr. Soumya Gangopadhyay** **Associate Head, Department of Mechanical Engineering**



It is my pleasure to heartily congratulate and welcome all the students who recently secured admission into the Department of Mechanical Engineering, IIT Bhilai. At the green and beautiful permanent campus of IIT Bhilai, Department of Mechanical Engineering is housed in Bharadwaj Building also known as ED-2 Building. Since its inception in 2016, our Department has witnessed a steady growth in terms of number of students graduated, highly qualified faculty members, well-trained laboratory staff, various outreach activities, involvement in cutting edge research including high quality publications in international journals and externally funded projects. Our modern course curriculum is duly complemented with the state-of-the-art laboratories and

research facilities. We strive to build an academic environment by promoting innovation and hands-on training-based teaching and learning platforms. We wish you all a pleasant stay at IIT Bhilai and a great professional career ahead.

## **Dr. Sudhanwa Patra Associate Head, Department of Physics**

Congratulations to all the brightest minds on being accepted into IIT Bhilai and welcome to all on behalf of the Department of Physics. As you begin your academic journey with us, we want you to know that you are among our most valued assets, and we are committed to supporting you every step of the way. Having been established in 2016 along with the inception of the institute, the Department of Physics at IIT Bhilai has already made a name for itself at the national and international level. Our faculty members have secured several sponsored research projects, national-level awards, and research collaborations across the globe, which is a testament to the high caliber of teaching and research that takes place in our department. In the coming years, you will have the opportunity to learn from some of the best minds in physics and to work alongside them on cutting-edge research projects too.

We believe that physics is an exciting and dynamic field, full of opportunities for discovery and innovation. Our goal is to inspire and challenge you, to help you develop your skills and knowledge, and to prepare you for a successful career in physics. Thus, the undergraduate and postgraduate degree programs here are designed to provide our students with a solid foundation in physics and to prepare them for successful careers in academia, industry, or research.



## **Dr. Gagan Raj Gupta Associate Head, Department of Mechatronics**



Dear students and friends,  
Welcome to the IIT Bhilai family. This is the place you would be calling your new home for a few years. So we are here to help you settle and meet your needs.

For those of you who have chosen to study Mechatronics as your specialization, I invite you to prepare yourself for an exciting and fulfilling career. You will learn a broad range of skills and technologies and be equipped to design and optimize new products, machines, robots, gadgets, instruments, and devices. You will learn to interact with physical elements with sensors and actuators and control them via software. We are designing our laboratories with state-of-the-art equipment and various DIY kits to enable you to unleash your creativity. When learning becomes fun and you create things that serve humanity; there is no better feeling!

# Himanshu Rana

## President, Council of Student Affairs, COSA

Congratulations on making your way to IIT Bhilai! It's a tremendous achievement to be called an IITian, a testament to your hard work, dedication, and perseverance. Enjoy the journey, take on challenges with confidence, and always strive for excellence. Your time at IIT Bhilai is not just about gaining knowledge, but also about growing as an individual and creating unforgettable memories.

The JEE journey is full of hardship, memories, hard work, and relentless effort. You all have graced this journey with your full potential and enthusiastic energy, making it a privilege for us to welcome the best and brightest. Now, as you begin your time at IIT Bhilai, immerse yourselves in the vibrant campus life. Participate in clubs and activities with your creative minds. This is a place where you can balance your studies with a crazy and cheerful environment, providing you with ample opportunities to grow beyond academics.

Enjoy every moment!!



IIT BHILAI



AT A  
GLANCE

**BHILAI**  
**BHILAI**  
**BHILAI**  
**BHILAI**  
**BHILAI**

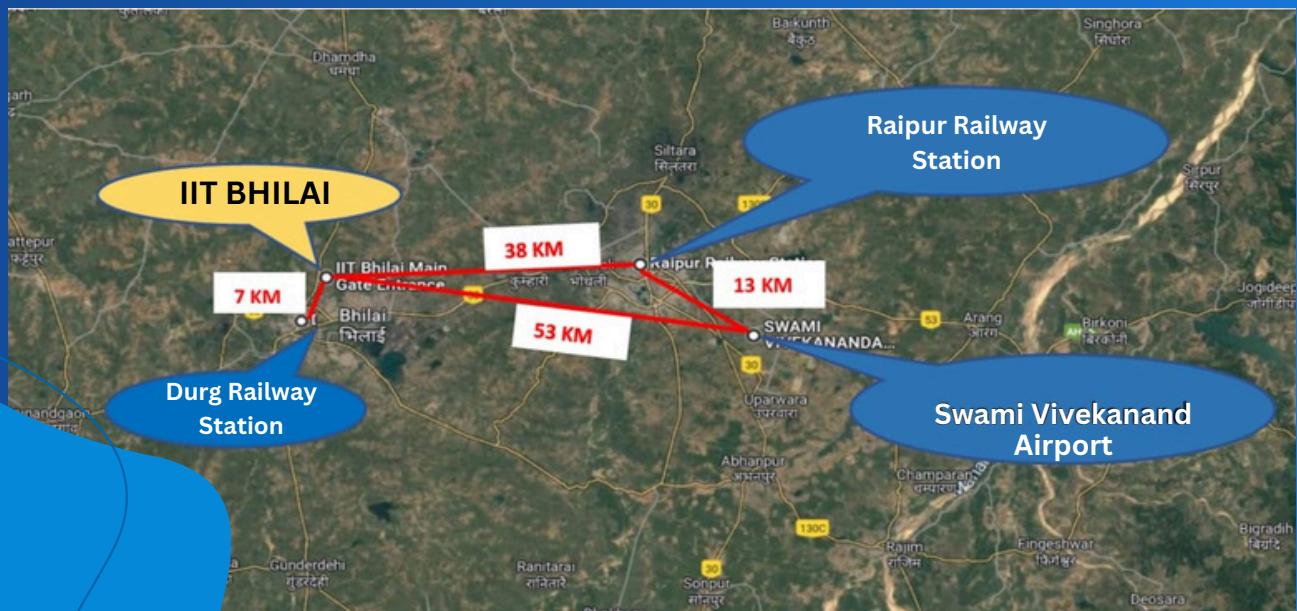


# THE PERMANENT CAMPUS

The Indian Institutes of Technology (IITs) are centrally funded, autonomous institutions that foster academic excellence. Among the 23 IITs, IIT Bhilai was established in Chhattisgarh by the Ministry of Human Resource Development in 2016. IIT Bhilai provides a range of programs, including Bachelor of Technology (BTech), Master of Technology (MTech), Master of Science (MSc), and Doctoral (PhD) degrees across various disciplines.

## Location

The permanent campus of IIT Bhilai is situated in Kutelabhata village, Bhilai, within the Durg district. It enjoys excellent connectivity, being just 5 km from the Great Eastern Highway, 7 km from Durg Junction railway station (a key station on the Howrah–Nagpur–Mumbai line), and 53 km from Swami Vivekananda Airport in Mana, Raipur.





## @IIT BHILAI

The permanent campus of IIT Bhilai is a fully self-sufficient residential area that has been developed in phases. It consists of three main zones: the Academic zone, the Hostel zone, and the Residential zone. The campus design incorporates various green-building features and is optimized for the local climate through sun-path analysis.

It is a pedestrian-friendly, walkable, and bikeable campus, with motorized connections restricted to the periphery. Natural ponds on the site are preserved and enhanced to improve the microclimate and facilitate rainwater storage.



Over the next 20 years, the campus is expected to grow to accommodate 12,000 students. The current phase of the permanent campus, situated in Kutelabhatta village, Bhilai, in the Durg district, serves 1,200 students, along with faculty and staff members.

## ACADEMICS AT IIT BHILAI

### DEPARTMENTS

At present the institute has ten departments, namely, Bioscience and Biomedical Engineering, Computer Science and Engineering, Electrical Engineering, Electronics and Communication Engineering, Materials Science and Metallurgical Engineering, Mechanical Engineering, Chemistry, Mathematics, Physics, and Liberal Arts. Various programs offered by the department are listed below.

Program	Offered in	Offered by department(s)
Bachelor of Technology (BTech)	Computer Science and Engineering	Computer Science and Engineering
	Data Science and Artificial Intelligence	Computer Science and Engineering
	Electrical Engineering	Electrical Engineering
	Electronics & Communication Engineering	Electronics & Communication Engineering
	Materials Science and Metallurgical Engineering	Materials Science and Metallurgical Engineering
	Mechanical Engineering	Mechanical Engineering
	Mechatronics Engineering	Mechatronics Engineering
Master of Science (MSc)	Chemistry	Chemistry
	Mathematics and computing	Mathematics
	Physics	Physics

Master of Technology (MTech)	Bioengineering	Bioscience and Biomedical Engineering
	Computer Science and Engineering	Computer Science and Engineering
	Data Science and Artificial Intelligence	Computer Science and Engineering
	Electronics & Communication Engineering	Electronics & Communication Engineering
	Control and Instrumentation	Electrical Engineering
	Power Systems and Power Electronics	
	Electric Vehicle Technology	
	Materials Science and Metallurgical Engineering	Materials Science and Metallurgical Engineering
	Design and Manufacturing	Mechanical Engineering
	Thermal and Fluids Engineering	
	Mechatronics Engineering	Mechatronics Engineering

Doctor of Philosophy (PhD)	Bioscience and Biomedical Engineering	Bioscience and Biomedical Engineering
	Chemistry	Chemistry
	Computer Science and Engineering	Computer Science and Engineering
	Data Science and Artificial Intelligence	
	Electrical Engineering	Electrical Engineering
	Electronics & Communication Engineering	Electronics & Communication Engineering
	Electric Vehicle Technology	Electrical Engineering
	Liberal Arts	Liberal Arts
	Materials Science and Metallurgical Engineering	Materials Science and Metallurgical Engineering
	Mathematics	Mathematics
	Mechanical Engineering	Mechanical Engineering
	Mechatronics Engineering	Mechatronics Engineering
	Physics	Physics

## FACULTY

IIT Bhilai, on its roster, has 74 faculty members, working in various cutting-edge research areas spread over engineering, mathematical and scientific disciplines, and liberal arts. The faculty strength is expected to increase in the coming month, as the institute is in the active phase of hiring. The Institute is planning for hiring of upto 20 faculty members by September, 2024 and the strength may likely to increase accordingly. The faculty members have exposure to world class education and research as doctoral students, and postdoctoral researchers in various top ranking institutes and laboratories in India and abroad. The Departmental Undergraduate Committee (DUGC ) and Departmental Postgraduate Committee (DPGC ) of each department provide academic support and advice to every student on all academic matters.



## Course Structure

IIT Bhilai fosters and encourages students to excel in their programs of study and recognises the same in several ways. IIT Bhilai follows a semester system and allows the students to do many basic courses in different departments and specialised courses in greater depth. Every course at IIT Bhilai generally runs for the entire semester (~ 14 weeks in case of a regular semester). A student registers for the courses that he/she wants to study and at the end of the semester a grade is awarded. On obtaining a pass grade, the student earns all the credits associated with the course while a fail grade does not get any credit. Each course has a certain number of credit(s) or non-graded unit(s) assigned to it depending upon the L-T-P structure of the course.

## GRADES

Students earn grades for each course they register for specific credits. The grades are given based on the relative performance of the students. Each grade carries associated numeric points. The academic performance of a student is typically indicated by the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). The SGPA is a weighted sum of the numeric points earned by the student for each course registered in a particular semester with weights being the credit of the course whereas the CGPA is the weighted sum of all courses in the program.

## Postgraduate and Advanced Courses

The postgraduate students are expected to do advanced courses with research orientation. The undergraduate students are also allowed/encouraged to do such courses. The philosophy of the course work at IIT Bhilai is to have less hand holding and to shape the engineers with greater sense of professional independence. Therefore, a major part of the course work is devoted towards research orientation. Each MTech student is expected to carry out at least one year (or maybe longer) duration thesis work. At the PhD level, students are expected to carry out research at a much more advanced level. The postgraduate courses offer the opportunity to indulge in applied parts of their education including the development of problem formulation and problem-solving techniques.

## Academic Calender

The academic calendar of the institute can be accessed via

[https://www.iitbhilai.ac.in/index.php?pid=aca\\_calendar.](https://www.iitbhilai.ac.in/index.php?pid=aca_calendar.)

## LIFE AT IIT BHILAI

Life at IIT Bhilai is a dynamic experience, characterized by a perfect balance of academic rigor, research excellence, and a vibrant campus culture. The green and pollution-free campus is well-equipped with sports facilities, laboratories, a library, hostels, and academic buildings. Along with a demanding academic curriculum designed to push the boundaries of student's knowledge and skills, the institute is also a hub for many cultural clubs and societies that encourage students to explore their passions like dancing, singing, photography, designing, Art, etc and Sci-Tech clubs like Epsilon, Ingenuity, Space Exploration Society, etc that guide students in interdisciplinary fields. Each club hosts events at regular intervals to make students' lives more enjoyable. The institute also hosts intra-IIT sports competitions (Prayatna) and intra-IIT Cultural competitions (Anveshan).

The Hostel life at IIT Bhilai encapsulates safety and comfort, fostering a sense of community among students. The Hostel buildings are housed with badminton courts. Each hostel offers a recreational room, indoor games like table tennis, carrom, etc., and dedicated student activity areas for music, art, robotics, and electronics, all within a safe and secure environment.



## GLIMPSE OF STUDENT ACTIVITIES

### NSO

The National Sports Organisation (NSO) offers a program requiring all students enrolled in NSO to participate in sports, and yoga and dedicate some of their time to physical activities. Students must choose a sport they are interested in. This initiative fosters passion and sportsmanship, allowing students to explore dimensions beyond academics. Additionally, it offers an excellent platform for students to demonstrate their extra-curricular talents in various sports, like football, badminton, cricket, athletics, basketball, table tennis, yoga, aquatics, and many more, including recreational games.



### PRAYATNA



The event that every sports enthusiast eagerly anticipates is the annual sports tournament at IIT Bhilai-Prayatna. Students from all years participate, giving their all to secure victories for their respective teams. This two-month-long event is a delight for both players and spectators, featuring various indoor games like chess and table tennis, as well as outdoor games such as football, volleyball, basketball, and athletics. Prayatna embodies the unwavering "NEVER GIVE UP" attitude of our students, regardless of the outcome of the competitions.

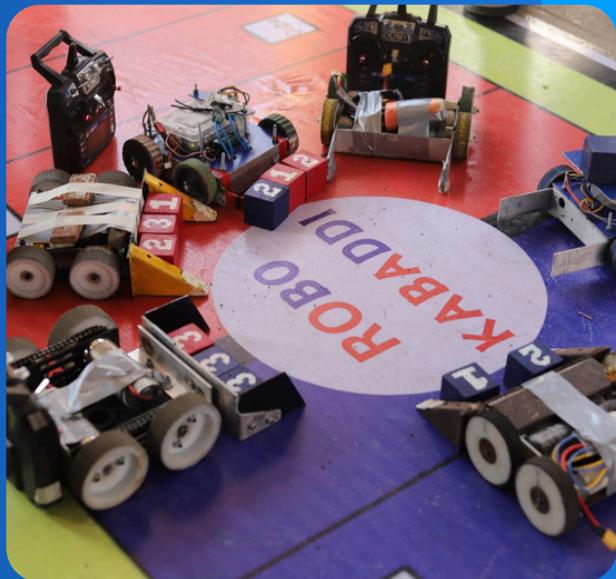
## NSS

“The best way to find yourself is to lose yourself in the service of others.” This motto encapsulates the essence of the National Service Scheme (NSS) program, which aims to mold individuals into responsible and respectable citizens with a strong sense of duty towards society. Students enrolled in this program must indulge in social service through various organized activities. NSS collaborates with several local NGOs and engages in activities such as visiting educational institutions, organizing blood donation drives, hosting charity events, and conducting tree plantation campaigns.



## MERAZ

It's time for the most awaited IIT BHILAI's annual techno-cultural festival- where diverse talents converge, and horizons expand. It was first celebrated in the year 2018. Students have the chance to showcase their skills, form new connections, and chart their course toward a dynamic future. From the intricacies of technology taking it to the elegance of fashion and the artistry of culinary pursuits, Meraz is where a new you is discovered.



Meraz 4.0 happened this year showcased various cultural events such as fashion show, mimicry, murder mystery, MUN, neon painting, nukkad natak, open mic, band battles, street dance battles, dance solitaire as well as various tech events such as robo kabaddi, turbo tide, hackathons, cp contests, quizzes, ui/ux designing including many more informal events to have extreme fun these days. Nights are accompanied by EDM nights inviting various artists - Antara Mitra, Qafila band, and Vivek Samtani.

## ANVESHAN



The highly anticipated annual cultural tournament of IIT Bhilai is a celebration of creativity, talent, and vibrant expressions. This eagerly awaited event brings together students from all disciplines to showcase their artistic abilities, foster a sense of community, and create lasting memories. Over several days, our campus transforms into a hub of cultural activities, engaging teams to compete in music, dance, drama, literature, art, and much more.

## INTER-IIT MEETS

Representing one's college at a PAN-India level is a matter of great pride. This opportunity is afforded to us by the Inter IIT Meet in the categories of Sci-tech, Cultural, and Sports. Various IITs send their teams to these meets each year to compete against others. Last year, these events were hosted by IIT Madras, IIT Kharagpur, and IIT Gandhinagar (along with IIT Bombay) for the respective Sci-tech, Cultural, and Sports segments.



## INTRA-COLLEGE EVENTS

In addition to Prayatna and Anveshan, our councils organize a variety of regular activities and celebrations of festivals. The Sports Council hosts frequent tournaments in volleyball, basketball, badminton, and more, actively encouraging freshmen to participate.



Tournaments like the BPL-Girls Volleyball Tournament, and Table-Tennis Tournament, Chess Tournament were organised last year. The Cultural Council organizes a wide range of events including dance competitions, poetry slams, essay writing, and quizzes on various topics. The Sci-tech Council conducts numerous events such as regular hackathons, drone flying events, and more.

## MESSAGE FROM ALUMNI



Enjoy, explore and innovate. Since it's a new IIT, there is a lot of scope for experimentation, so try a variety of new things, make some amazing friends, and create beautiful memories for yourself to cherish for lifetime...  
ALL THE BEST 😊

Aditi Mahajan  
ME'24

Don't stress if you haven't figured everything out yet you have a long journey ahead, and it's okay to feel confused at times. What's important is not to have a detailed map of where you want to go, but rather a sense of direction.

Aneesh Tickoo  
DSAI'24



Embrace every moment, from late-night study sessions to fun nights out with friends, because these 4 years will fly by. As someone who once stood where you are now, I can assure you that the years ahead will be some of the most memorable and transformative of your life. The friendships you make here will last a lifetime.

Pooja Joshi  
CSE'20

Your nights will become your days; you won't remember that breakfast was a thing, and you'll learn everything except the syllabus. So enjoy it, grab every opportunity to gain skills, and you won't even know you are being pushed to your limits.

Siddharth Gupta  
DSAI'24



Dear Freshers,  
Welcome to IIT Bhilai! Embrace every opportunity, forge lasting friendships, and never stop learning. Your journey here will be transformative—make the most of it and enjoy it thoroughly, because these 4 years won't come back.

Shweta Chauhan  
DSAI'24



From experience, I only say that you should keep your life simple but entertaining. In the 4-year journey, try to explore and enjoy everything and every moment in the first 2 years and then plan your future accordingly and execute your plan to achieve your goal. However, never mix your personal and academic life.

Nishant Mahawar  
EE'24

Dear freshers,

Make the most of these four years. Take chances, grab opportunities, forge friendships, make memories, and learn a lot along the way! All the best!!

Shaleen Malik  
DSAI' 24



Welcome to the class of 2028. Congratulations!

You have made it, and all your efforts have been worth it. The next four years will shape the trajectory of your career and your life. Try to learn as many new things as you possibly can, and cherish each moment, every new learning, every success, and the inevitable failures.

Vijit Shrivastava  
ME'20

Dear juniors, you're about to embark on the best four years of your life. There will be challenging times, but the friends you make along the way will support you through it all. You'll laugh together, grow together, and create unforgettable memories with people who will always hold a special place in your heart.

Purnendu Ashutosh  
EE'20



Hey new IITians, congrats on making it from hopefules to winners! Now that you're starting this new phase, make sure you soak up every moment like it's a cool story you'll tell your grandkids. Make loads of memories, each one better than the last. You've nailed one challenge, so don't rush into the next one. Take it easy and enjoy life

Shubham Agarwal  
CSE'20

**@IIT BHILAI**

## INSTITUTE FACILITIES

### Content:

1. Computing labs
2. Electrical Engineering (EE) Lab
3. Mechanical Engineering (ME) Labs
4. Chemistry Lab
5. Physics Lab
6. CIF
7. ITIS
8. Central Library
9. Health Center
10. SMP
11. CCPS
12. IBITF
13. IIC
14. Materials Science and Metallurgical Engineering (MSME)
15. Mechatronics
16. Electronics and Communication Engineering

### 1. COMPUTING LABS

The department of CSE has state-of-the-art facilities in the following verticals covering the spectrum of Computational Sciences and Engineering.

Computer Systems  
High-Performance Computing and GPU  
Embedded Systems  
VLSI  
Networking and Cyber Security

## 2. Electrical Engineering (EE) Lab

The EE lab is well equipped with various state-of-the-art equipment to allow both the UG and PG students to do their academic projects independently in an efficient manner. Specially dedicated setups are available about the following verticals: (i) Devices and Circuits, (ii) Sensor and Instrumentation, (iii) Embedded Systems, (iv) Communications and Digital Signal Processing, (v) Electrical Machines Lab, (vi) Control Systems Lab, (vii) Power Electronics and Power System Lab. Some of the state-of-the-art facilities in these labs comprise,

1. Digital oscilloscopes frequencies up to 500 MHz,
2. LCR meter
3. USRP B200,
4. Basys3,
5. Zyboz7,
6. Kintex,
7. Zynq based FPGA boards,
8. Opal RT simulator.

## 3. Mechanical Engineering (ME) Labs

Department of Mechanical Engineering, one of the founding departments of IIT Bhilai, was established in 2016. Presently, the department consists of more than 150 undergraduate students, around 40 post graduate students, laboratory staff and 12 faculty members. The department facilities are broadly divided into three facilities such as (i) Solid mechanics and Machine designs, (ii) Manufacturing, and (ii) Thermal and Fluid engineering. In a very short span of time the department has successfully established some state-of-the-art facilities highly beneficial for academic and research activities of the UG and PG students. The department currently consists of the following lab facilities:

- Internal Combustion Engine and Heat Transfer laboratory
- Design and Solid Mechanics laboratory
- Fluid Mechanics laboratory
- Dynamics and Vibration Laboratory
- Metrology and Material Characterization laboratory
- Refrigeration and Air Conditioning laboratory
- Robotics and Mechatronics laboratory
- Mechanical Workshop (Central Prototype Facility)

The state-of-the-art facilities in these labs include:

1. 2kW Fiber Laser
2. High-speed Micro-Machining Centre
3. CNC Turning Centre
4. 4-axis CNC Vertical Machining Centre
5. CNC Wire EDM Machine
6. Friction Stir Welding Machine
7. Stir-Casting Facility
8. Drop Shape Analyzer
9. IR Thermal Camera
10. Thermal Conductivity Analyzer
11. Inverted and Digital Stereo-zoom Microscope
12. Servo Hydraulic UTM
13. High-Speed Cameras
14. 3D Printing Machines
15. Internal Combustion Engine Test Setup
16. Non-contact type 3D Optical Surface Profilometer
17. Micro-indentation Hardness Tester
18. Scratch Tester
19. Olympus Inverted Microscope

In addition to these facilities, the Department also has some of the advanced research related software and computing facilities such as ANSYS-Fluent, DEFORM, LSDYNA, ABAQUS, GT- SUITE etc.



## 4. Chemistry Lab

Chemistry laboratory is well equipped with equipment and facilities for doing research in advanced areas. The Chemistry Laboratory of IIT Bhilai is one of the most modernized laboratories of Central India. The chemistry lab is equipped with vortex mixers, digital balance, magnetic stirrer with hot plate, rotary evaporator, heating mantles, hot air oven, water purification system, melting point apparatus, Vacuum pumps, water bath, photo colorimeter, digital pH Meter, ultrasonic cleaner, ice making machine, fume extractors (to restore the purity of air in lab) and many other specific state-of-art equipment, like:

- NMR-60MHz,
- FTIR-ATR spectrometer,
- UV-Vis Spectrophotometer,
- TGA & DSC
- Gel permeation chromatography (GPC)
- HPLC
- Gas Chromatography & GC-MS,
- CHNO/S-Elemental Analyzer,
- BET Analyzer
- Chemisorption,
- CD Spectrophotometer,
- Source meter,
- TRPL
- PL Spectrophotometer
- Dynamic Light Scattering (DLS)
- Multimode Microplate Reader,
- Surface area analyzer,
- Solvent Purification System( SPS)
- Fluorescence & Stereo Zoom Microscope
- Rotary Evaporator
- Low Temperature Cooler and Circulator,
- Rheometer
- Workstation
- Rheometer



Probe Station with sample stage, Microwave Reactor, Centrifuge and computational Chemistry resources such as Turbomole, Gaussian, AutoDock, Modeller and Gromacs software along with several in-house programs for QSAR and saturation mutagenesis analysis and a high-end Workstation for facilitating the quantum chemical, molecular modeling and bioinformatics studies. The Chemistry laboratory has a vibrant atmosphere to prepare its students to be creative, independent and in the spirit of scientific knowledge for cutting-edge research.

## 5. Physics Lab

The Physics lab caters to the needs of students at different levels including undergraduate and postgraduate studies. The lab courses are designed to raise the curiosity of students in experiments which are fundamental to understand the laws of nature as well as the basic working principles of Physics. The labs are planned to be dynamic and keep updating with new experiments and tools to remain relevant to modern times. Apart from the teaching laboratories, the department of Physics has very well-equipped research labs in solar cells, ultrafast spectroscopy and soft matter that are continuously growing with some of the world-class facilities. A student is highly encouraged to engage in research activities of the lab apart from the regular lab courses. The department also has 3 high-end telescopes for those who are interested in astronomical activities and events and are made available to students after proper training.



## 6. CENTRAL INSTRUMENTATION FACILITY

Central Instrumentation Facility (CIF) was established to help the research community conduct advanced research in various scientific domains. The CIF will help researchers, faculty members, and students collect valuable scientific data using sophisticated instruments to help them uncover insights.

Currently, CIF consists of the following sophisticated equipment.

- Field Emission Scanning Electron Microscope (FESEM),
- FESEM sputter coater,
- Powder X-ray Diffractometry (PXRD),
- Atomic Force Microscope (AFM),
- Multi-target sputtering machine along with shot blaster,
- Ultra-High-Performance Liquid Chromatography with High-Resolution Mass Spectrometer (UHPLC-HRMS),

- High-Speed Confocal Laser Scanning Microscope with Incubator Facility and
- Maskless Photolithography with UV Direct Laser Writer.
- Nuclear Magnetic Resonance Spectrometer (NMR),
- High-Resolution Transmission Electron Microscope (HR-TEM),
- Broad Beam Ion Milling Facility
- Wind turbine

These sophisticated instruments are used for different applications such as surface morphology, elemental analysis, particle size distribution, phase composition of a sample, unit cell lattice parameters and Bravais lattice symmetry, residual strain (macro strain), crystal structure, epitaxy/texture/orientation, variable temperature analysis, capillary measurements, crystallite size and microstrain, identification of surface topography, identification of nature of interaction between specific atom and its neighboring, electric properties, and atomic level manipulations and tribological performances.

Moreover, CIF will procure the following sophisticated equipment soon

- CAAQMS
- Single Crystal XRD
- Stylus Profilometer
- EM-UTM
- EPR
- Battery fabrication facility
- SEM along with nano indenter and manipulator
- OCT
- Furnaces
- XPS

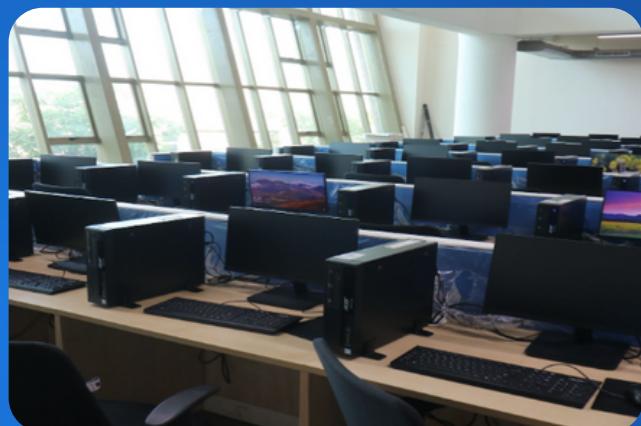
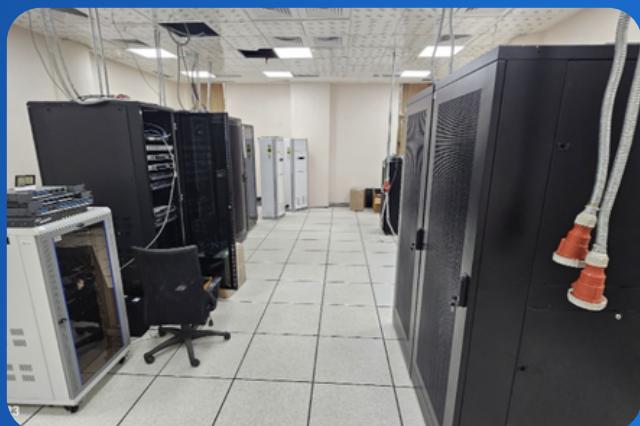
Recently, the Central Instrumentation Facility (CIF) showcased various demonstrations with the objective of making students and the public aware of the various machines and facilities that are available for characterization. For more detail, you may visit: [https://www.iitbhilai.ac.in/index.php?pid=dept\\_cif](https://www.iitbhilai.ac.in/index.php?pid=dept_cif)



## 7. INFORMATION TECHNOLOGY AND INFRASTRUCTURE SERVICES (ITIS)

The Information Technology and Infrastructure Services (ITIS) of IIT Bhilai has state-of-the-art computer laboratories to support academic affairs and administration at the institute. Currently, it provides two well-equipped computer labs. These computer labs are used regularly to carry out academic programs, self-studies, and online tests. IT infrastructure is also equipped with 12 high-configuration servers with SAN storage of around 300 TB. Students and staff are provided with storage facilities with features akin to any cloud-based storage service.

The Institute provides state-of-the-art computer systems with advanced technologies and software (Microsoft Office 365, Ansys, Abaqus, Cadence, Comsol, MATLAB, Mathematica, etc.) to keep itself in sync with the fast-changing needs of industry and academia.



ITIS provides seamless and secure network connectivity to the entire campus, including academic, hostels and employee residence area, with wired and wireless networks over high-speed fibre optics that connect all buildings to the data centre. The institute connects to the National Knowledge Network (NKN), a multi-gigabit, pan-India broadband network that provides a unified high-speed network to all knowledge-related institutions in the country. Being a part of the National Knowledge Network, IIT Bhilai receives broadband internet seamlessly. The entire campus of IIT Bhilai is Wi-Fi enabled, and students can use the network seamlessly across various facilities.

Students are provided various services and facilities in the institute's premises like server storage, eoffice, mail services, internet and web browsing, Academic Institute Management System (AIMS Portal) for facilitating academic operations, Online Resource Planning and Administration System (ORPAS), Appointment Booking System for the health centre, smart ID Card based attendance, access control system and mess payment system, Student's degree/transcript downloading service through Digilocker, student admission portal, eBallot System for online voting etc. For more details, you may visit: <https://www.iitbhilai.ac.in/index.php?pid=itis>

The campus management system manages the entire campus, which helps manage and monitor the Air Conditioning, Lighting, Chillers, DG Sets, Fire Panels, etc. It provides an automated way to utilise the resources more efficiently.

## 8. CENTRAL LIBRARY

Central Library transitioned to the new campus, and it's truly a stunning space designed to enhance academic and research pursuits. The Central Library at IIT Bhilai serves as an invaluable resource hub, offering an extensive collection that spans printed materials like books, magazines, and journals alongside electronic resources such as CD-ROMs, DVD-ROMs, and online databases. Regularly updated, its holdings are curated to cater to the academic needs of both faculty members and students. The library stock is increasing at a rate of approximately over 1,000 books per year. Presently, the library boasts a diverse collection of over 6500+ books encompassing textbooks, reference books, general reading books, and literature in Hindi. It provides access to popular magazines, print journals, theses & dissertations, e-journals, and online databases in Engineering & Technology, Basic Sciences, Humanities, Social Sciences, and Management. It also subscribes to over 15+ journal packages (full text) like ACM Digital Library, American Chemical Society (ACS), American Institute of Physics (AIP), American Physical Society (APS), ASME, Emerald, JSTOR, IEEE, Oxford University Press, PNAS, Science Direct, Springer-Nature, Taylor and Francis, Wiley, and several other reputed publishers. In addition, IIT Bhilai has subscriptions to e-databases such as SciFinder, Web of Science, and MathSciNet. Central Library has a subscription to e-resources, including more than 8000+ e-journals connected on the institute-wide network and off-campus access to e-resources through shibboleth access at <http://idp.iitbihilai.ac.in/>. Central Library maintains the research information management network (IRINS) faculty profiles at <https://iitbihilai.irins.org/>, which supports faculty members in showcasing their research contributions to their larger peer group. IIT Bhilai is a Life Member of the "Current Science Association" of the Indian Academy of Sciences, Bangalore, receiving the "Current Science" Journal and a member of the e-sodhsindhu consortium of INFLIBNET Center. The library has organized author workshops with multiple publishers such as Wiley, Springer, and IEEE, as well as online training sessions like Grammarly and Turnitin Feedback Studio.

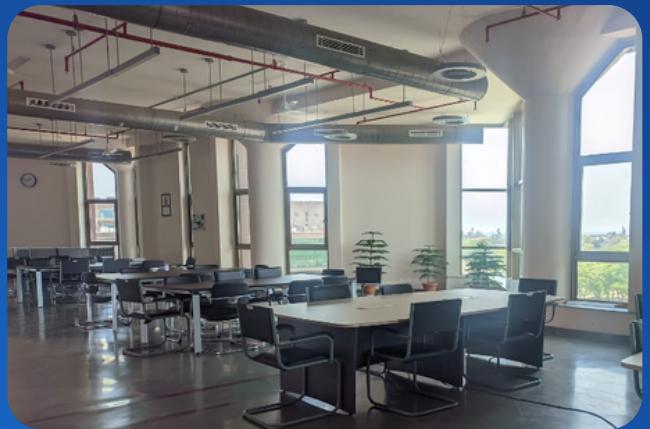
IIT Bhilai has subscribed to state-of-the-art anti-plagiarism software, Turnitin-Feed Back Studio, and 'Grammarly' to maintain academic integrity in the institute towards the improvement of the writing skills of students and scholars through a feedback mechanism. It also has access to plagiarism detection software (Drillbit) from Shodhshuddhi, INFLIBNET Center. Library functions are run on Koha software, one of the most functionally advanced open-source integrated library systems (ILS). Furthermore, an OPAC-based system also helps users track library resources. Users can search books, check issued books, and renew and reserve books.

Further, it automatically sends transaction alerts to users and also sends overdue notices as well as reminders. The WebOPAC is available at <http://elibrary.iitbihilai.ac.in/> for online catalog searching. Central Library also provides printing facilities, reprographic services, and newspaper clipping services to library users.

## Library Services and Facilities:

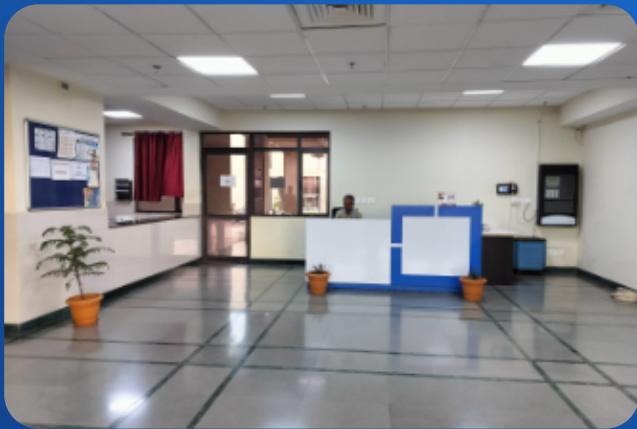
- Library Membership and Borrowing Facilities
- Circulation Service (issue, return, renewal, reservation, email alerts)
- Web OPAC (Web version of Online Public Access Catalogue)
- Reference Service
- Current Awareness Service (newly arrived books)
- Newspaper Clipping Service
- Document Delivery Service
- Remote Access Service
- Plagiarism Check Facility
- Reading Facility
- Rajbhasha Collection (Hindi Books)
- Non-book/Audio-Visual Materials
- Author workshops and webinars for the Research scholar and Faculty members.
- Online training sessions for students
- Printing and Reprographic Service
- Display of Research Publication
- The book showcases on theme based collection

Sl. No.	Name of the Library IT Infrastructure	Software Platform
1	Library Automation	Koha ILS Software
2	Library Website	Inhouse developed CMS
3	Remote Access	Shibboleth
4	Plagiarism Detection Tool	Turnitin Feed Back Studio/Drillbit
5	Research Information Management	IRINS
6	English Writing Proficiency	Grammarly



## 9. Health Center

A healthy employee reflects the health of the organisation. Health centre at IIT Bhilai has been established to provide health care facilities to the Institute members and their dependent entitled family members, students, research fellows. It aims to provide comprehensive primary health care (both mental and physical) available round the clock. Apart from basic health care it also provides health promotional activities, workshops like health education, periodical health check-up and dietary advice. The principle aim of a Health check-up is to detect and pre-empt the onset of a disease, at an early stage or ideally prevent illness occurring in the first place. Health check assesses the current state of a person's health, increases awareness about diseases and provides reassurance. Apart from this, IIT Bhilai has tie-ups with various renowned hospitals nearby to provide medical assistance. A fully equipped ambulance is available all the time at the institute in case of emergency.



## 10. STUDENT MENTORSHIP PROGRAM

The student mentorship program helps new students to adjust to academics, peer pressure, competition and enhance competition and know others. In the beginning of the academic year, students are indulged in an orientation program which encourages them to wallow in team building activities and develop a healthy interaction.



## 11. CENTRE FOR CAREER PLANNING AND SERVICES (CCPS)

The Centre for Career Planning and Services (CCPS) aims to provide placement and internship opportunities and relevant training for students along with guidance for their career progression. CCPS Office runs smoothly under the supervision of Dr Dhiman Saha (Faculty In-Charge) along with Dr Soumajit Pramanik (Associate Faculty In-Charge), who are supported by Faculty Advisors from each discipline, handling important issues related to their respective disciplines. CCPS is involved in the decision-making process regarding placement-related matters and policies. A dedicated student placement team also aids the CCPS Office by coordinating placement drives, conducting placement preparedness activities, publicity, career guidance sessions, etc.

### Placements

This year, CCPS hosted its fifth campus placement session for the students graduating in 2024. This campus placement session witnessed a global recession and sluggish market trends, which has impacted the placement statistics globally. Still, many students are placed with an average package of 13.02 LPA, even after considering these market conditions. This year's graduating batch received placement offers from several notable organisations like Accenture Japan, Deloitte, Winjit Technologies, Siemens, NVIDIA, TESCO, Publicis Sapient, Mahindra and Mahindra, TATA Autocomp, HCL, TCS, L&T etc. Over 75 firms from IT, analytics, management, training and research, finance and consulting, and core technical sectors participated. A total of 95 placement offers have been made so far, with 1 Pre-Placement-Offer (PPO), and the current placement session is still ongoing.

## Key highlights

- The highest and average CTC was ₹ 48.92 and ₹ 13.02 Lakhs per annum, respectively.
- MTech-CSE secured 60% of placements, DSAI and Mechatronics students got a 100% placement record.
- This year, BTech-DSAI students were the pioneering batch that secured 75% placements so far.
- This placement session hosted our International recruiter, Accenture Japan, for the second time which made offers to 3 of our students.

## Internships

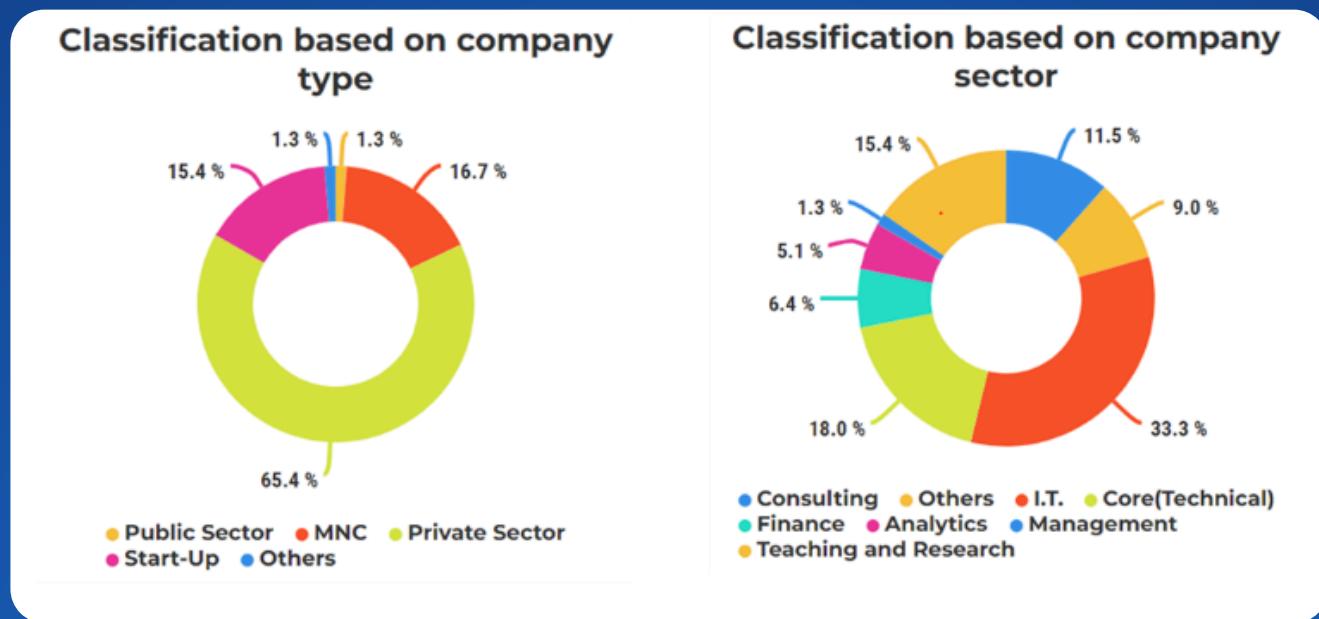
IIT Bhilai has partnered with major corporate offices and institutes for Internships and training programs. During the academic year 2023-2024, the CCPS Office collaborated with numerous industrial facilities, corporate houses, institutions, and other organisations to provide students with internship opportunities and practical and industrial exposure.

### Campus Placements 2023-24 Statistics

Table No. 1: Percentage of placed students, program and discipline-wise

S.No.	Program	Discipline	Placement Percentage
1	BTech	Computer Science and Engineering	68.63
2	BTech	Data Science and Artificial Intelligence	75.00
3	BTech	Electrical Engineering	31.91
4	BTech	Mechanical Engineering	50.00
5	MTech	Computer Science and Engineering	60
6	MTech	Data Science and Artificial Intelligence	100
7	MTech	Mechatronics Engineering	100
8	MSc	Physics	66.67
9	MSc	Chemistry	100
10	MSc	Mathematics and Computing	25

## Company Statistics



## 12. IIT BHILAI INNOVATION AND TECHNOLOGY FOUNDATION (IBITF)

The IIT Bhilai Innovation and Technology Foundation (IBITF), a Section 8 Company, has been established by IIT Bhilai. Department of Science and Technology, under its National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS) has funded IIT Bhilai to host its Technology Innovation Hub. IBITF serves as the central hub for driving Entrepreneurship, Research and Development, Human Resource Development (HRD), Skill development, and Collaboration initiatives, particularly focusing on Financial Technologies, Health technologies, and Agricultural Technologies.

The vision of IBITF is as follows:

- Cutting-edge research and development in financial technologies.
- Scouting for young professionals and students with entrepreneurial skills, and nurturing them.
- Capability and capacity building using HRD and skill development at various levels.
- Contribution towards India occupying the leadership position in the FinTech, MediTech, and AgriTech revolution.
- Building a sustainable ecosystem with national and international collaboration.

IBITF has successfully sanctioned 93 impactful projects under multiple schemes, including Entrepreneur in Residence (EIR), Promotion and Acceleration of Young and Aspiring Technology Entrepreneurs (PRAYAS), Technology Development (TD), Technology Business Incubator (TBI), and Tribal Area Sub Plan (TSP).

Additionally, IBITF has also provided high-end Computing/GPU facility support and Cloud Servers at IIT Bhilai, serving as the central facility for High-Performance Computing (HPC) systems to support all the projects funded under IBITF. This centralized resource is accessible to all sanctioned projects under IBITF.

In addition to the projects, IBITF aims to provide a platform for students to leverage their knowledge through our fellowship scheme (Undergraduate, Postgraduate, PhD, Post-doctoral, and faculty). This scheme not only offers a platform for utilizing their expertise but also provides a monetary benefit to the students. In FY 2023-24, over 100 fellowships across various academic levels have been offered.

Furthermore, IBITF also conducts various workshops for students, staff, and faculty members, periodically aiming to nurture entrepreneurship and cultivate a startup culture.

## **13. Institute Innovation Council (IIC)**

Institute Innovation Council of IIT Bhilai was envisioned by the Ministry of Human Resources in 2018. The council is responsible for fostering the culture of innovation and start-up/entrepreneurial ecosystem in the institute. Over the last three to four years the council has overseen incubation and funding of multiple startups led by the students of the Institute. IIC is focused on mentoring students and organizing activities in ideation, problem-solving, proof of concept development, design thinking, IPR, project handling and management for students. The goal of IIC is to guide students on a path of innovative thinking and entrepreneurship. The council provides students the platform and opportunity to showcase their ideas and technical expertise to the world.

- Institution Innovation Council (IIC) of IIT Bhilai was recognized by MHRD's Innovation Cell (MIC) during the inaugural function of IIC at AICTE HQ held on November 21, 2018, to foster the culture of Innovation amongst all Higher Education Institutions (HEIs).
- IIT Bhilai is currently one of the 48 centers to have hosted Smart India Hackathon (SIH) 2019 Software Edition. SIH is a unique Open Innovation Model for identifying new and disruptive technology innovations to solve the challenges faced in our country.
- IIT Bhilai with support from the Ministry of Electronics and Information Technology (MeitY) held a One-day National Workshop on "Awareness on Intellectual Property Rights" on 24th August 2019.

## Activities Under IIC:

- Smart India Hackathon (SIH)
- Intellectual Property Rights
- The Entrepreneurial Mindset

## 14. Materials Science and Metallurgical Engineering (MSME)

The Department of Materials Science and Metallurgical Engineering (MSME) at IIT Bhilai stands at the forefront of technological advancements and commercialization in the field. Located in the mineral-rich state of Chhattisgarh, adjacent to the historic SAIL-Bhilai Steel Plant (SAIL-BSP), this department plays a pivotal role in shaping the future of materials science and metallurgical engineering.

### Research Excellence

Their interdisciplinary research at Department of Materials Science and Metallurgical Engineering (MSME) spans various areas:

- Materials Science: Research covers advanced materials, including polymers, ceramics, and smart materials.
- Metallurgical Engineering: Collaborations with SAIL-BSP expose students to the latest industrial technologies and processes.
- Computational Materials Engineering and Molecular Modeling: Leveraging state-of-the-art tools for simulations and predictions.

### State-of-the-Art Lab Facilities

The MSME department houses cutting-edge facilities that empower students and researchers alike:

#### 1. Planetary Ball Mill:

- Used for mechanical alloying, mixing, and grinding of materials.
- Enables fine-tuning of material properties.

#### 2. Grinding/Polishing Machine:

- Essential for sample preparation in metallography and microscopy.
- Achieves precise surface finishes.

#### 3. Baincut LSS (Low-Speed Saw):

- Ideal for sectioning hard materials, including metals and ceramics.
- Ensures accurate sample cuts.

#### 4. Centrifuge Machine:

- Used in materials characterization and separation techniques.
- Maintains low temperatures during centrifugation.

## 5. Vacuum Oven:

- Creates a controlled environment for heat treatment and drying.
- Removes moisture and gasses from samples.

## 6. Hot Air Oven:

- Used for sterilization, drying, and aging tests.
- Maintains a uniform temperature.

## 7. Muffle Furnace:

- Essential for high-temperature applications, such as sintering and annealing.

## 8. Micro Weighing Balance:

- Precise weighing of small quantities (micrograms to milligrams).
- Essential for accurate sample preparation and measurements.

## 9. Hydraulic Press:

- Used for compacting powdered materials into pellets or discs.
- Enables high-pressure experiments and material synthesis.

## 10. Ultrasonicator:

- Utilized for sample dispersion, degassing, and cell disruption.
- Enhances material processing and characterization.

## 11. Magnetic Stirrer & Hotplate:

- Combined equipment for stirring solutions and maintaining a controlled temperature.
- Ideal for chemical reactions, dissolution

## Upcoming Additions

The department is actively expanding its facilities:

- **Fume Hood:** Ensures safe handling of hazardous materials.
- **Probe Sonicator:** Used for sample dispersion and cell disruption.
- **Optical Microscope:** Enhances materials characterization.
- **Spin Coating Unit:** Enables uniform deposition of thin films on substrates.
- **Hot Mounting Machine:** Ensures accurate mounting and encapsulation of metallographic samples
- **Electro-chemical Workstation:** Facilitates electrochemical studies, corrosion testing, and battery research.

## Materials Informatics and Computational Tools

- The MSME department leverages the **Biovia Material Studio** for computational materials engineering and molecular modeling.
- High-speed internet connectivity grants access to a wealth of online and standalone modeling tools and databases for materials informatics studies.



## 15. Mechatronics Engineering

### Note:

Our Labs are shared with the Mechanical and Electrical department

## 16. Electronics and Communication Engineering

As an engineering branch, ECE deals with teaching, research and development, and human resources development in the fields of electronic systems, solid-state devices, digital/analog/mixed-signal/RF integrated circuits, microprocessors and GPUs, communications and broadcast systems, digital/analog/wireless/satellite communication, electronic data transmission, computer networking and protocols, digital signal processing, image and speech processing, embedded systems, RF and microwave, antenna, wave progression, Internet-of-Things (IoT), virtual and augmented reality, smart sensors, and artificial intelligence.

The department's goal is to develop the basic concepts and sound knowledge, covering the breadth and depth of the field, problem-solving approach, and hands-on experience of the students to equip them with the skills and mindset required in their professional career to deal with problems involving analysis, creativity to find novel and valuable solutions, systems implementation, product design, operation, production, and maintenance of various applications in the Electronics and Communications Engineering field.

The Department of Electronics and Communication Engineering primarily deals in the domain of:

**Electronic systems:** In the domain of Electronics, a designer utilizes the behavior and effects of electrons to produce electronic devices (such as electron tubes and transistors), systems, or equipment. Electronics is a broad field encompassing many subfields, including smart system designs, analog and digital electronic systems, semiconductor devices, System-on-chip (SoCs), Microelectronics and VLSI, High-power and low-power electronics, embedded systems, robotics, machine vision, and sensor & instrumentation.

**Communications and Signal Processing:** To focus on teaching, training, and high-quality research, both fundamental as well as applied, in the areas of Data communication, digital and analog communication, satellite, cellular, and fiber-optic communication, signal/media processing, digital image processing, audio and speech processing, computer networks, information theory, computing, biomedical, Artificial intelligence, Internet-of-Things (IoT), 5G communication and beyond, etc.

**RF, Microwave, and sub-THz Design:** Radio Frequency (RF) and Microwave RF refer to the frequencies over which microwave communications can take place. This RF communication is widely used in telecom as a wireless communication transmission medium. RF waves are electromagnetic radiation with identified radio frequencies ranging from 3 kHz to 300 GHz. Nowadays, researchers are even exploring a sub-THz range and beyond as well. Microwave and RF technology provides an easy sending and receipt of microwave data, making it a popular choice for telecommunication and broadcasting. Microwave and RF equipment (either analog or digital) provide the most economical transmission solutions.

The following are the proposed labs for ECE.

Name of the Lab	Instruments/Equipments
Microcontroller and Embedded Systems Lab	NXP FRDM-KL25Z Boards
Signal Processing Lab	DSP Boards, Computer Systems, SDRs, FPGAs
Electronics Lab	Bread Boards, DSO, Power supplies, Multimeters, Function Generators, ICs, Discrete Components, Spectrum Analyzers, Vector Signal Generators, PCB machines, Arbitrary function Generators

Communication Lab	USRP kits, DSP Kits
Digital Electronics Lab	FPGA Boards, Computer Systems
VLSI Lab	Softwares + EDA tools + FPGA Boards+ Characterization setups including high performance MSOs, power supplies, Function generators, Spectrum Analyzers, Vector Signal Generators, PCB machines, Arbitrary function Generators
RF and Microwave Lab	Softwares, High Frequency RF Kits, DSP Boards, Power supplies, Multimeters, Function Generators, ICs, Discrete Components, Spectrum Analyzers, Vector Signal Generators, PCB machines, Arbitrary function Generators, DSO, Anechoic Chamber
Device Fabrication and characterization lab	Source measuring unit, Probe Station, Thermal Evaporation Unit, Spin Coater, Ultra sonicator, Photo-lithography, Profilometer

## 5G USE CASE LAB

The department of ECE is One among the 100 5G Use case labs at Higher Educational Institutions set up by DoT (Department of Telecommunications)

- 5G Radio/CU-DU, 5G Core IMS, NMS
- Mobile Edge Compute and Application Server
- Testing and Tracing Tools
- IoT Sensors analytics software
- L2 Managed Switch
- 5G Evaluation Board 5G Indoor CPE
- 5G XR, 5G Handsets 5G Sims
- 5G Mini Drone

## RESEARCH AT IIT BHILAI

### Research and Development

Faculty members at IIT Bhilai work on contemporary, high impact research areas that frequently span multiple departments. Researchers from Sciences and Engineering departments complement each other's expertise in advancing technology in several areas. The institute gives emphasis to achieving a right balance of theoretical and experimental research. The research outcomes of the faculty members are published in the best journals and conferences of the related field, and the impact of their work has ensured a high average h-index.



Emphasis is given to the research problems of immediate industrial and practical application. The institute is in process of building world-class labs with industry collaboration to provide the faculty and students an access to the relevant research problems and opportunity for adoption of their solutions. Faculty members are currently conducting research under significant grants obtained from reputed external funding agencies.



The overall outlay of institute grants available under IIT Bhilai Innovation and Technology Foundation has touched a mark of Rs 58.2 Crores, which in time to come will grow in more speed with the constant engagement of researchers/ innovators.

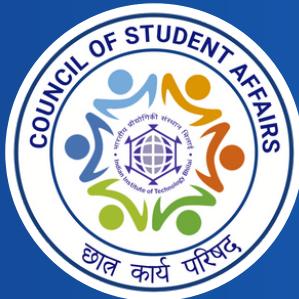
The faculty members of the institute have undertaken 30 different ongoing projects under IBITF, in which the total funds which are awarded to the startups is 15 crores.

Incubated more than 14 startups/ companies in various areas including Agri Tech, HealthTech, etc as of now through IIT Bhilai Innovation and Technology Hub.

The institute has established robust partnerships with numerous esteemed institutions and leading industries, fostering a collaborative environment for groundbreaking projects. These alliances provide our students and faculty with unparalleled opportunities for innovation, research, and practical experience, bridging the gap between academia and the professional world.



## COUNCIL FOR STUDENT AFFAIRS



CoSA, the Council Of Student Affairs, comprises student representatives who promote the holistic development of students at IIT Bhilai through different activities and effectively communicate students' issues to the institute authority. The Council is led by the President and composed of General Secretaries, viz. Academic, Science and Technology, Cultural and Media, Games and Sports, and nominated members, viz. the Events-Head and Treasurer.



The Council is democratically elected by the students of IIT Bhilai, except for the nominated members who the elected President nominates. Normally, the members hold office from the day they are elected to the end of March. CoSA strives to create a culture of diversity, and tradition, to provide a plethora of opportunities for exploration and explication in all sorts of hobbies and pursuits, and maintains a liaison between the institute's administration and the students to march towards academic excellence by identifying and addressing student issues. Diverse committees are functional that ensure the fulfillment of the needs and the well-being of the Student Community at large. The General Secretaries along with their secretariats strive to continue the same.



## STUDENT CLUBS

### Cultural Council

The Cultural Council is a vibrant and dynamic body dedicated to enriching campus life by promoting a wide range of cultural activities. Despite the demanding academic schedule, the council ensures that students have opportunities to explore and express their creative talents. Guided by the General Secretary of Cultural Affairs, the council encompasses various clubs and societies, each catering to different artistic and cultural interests. We aim to foster an inclusive environment, encouraging students to explore their artistic passions, develop their talents, and contribute to our rich cultural tapestry. We believe that cultural activities are not just extracurricular but essential for holistic development, fostering a sense of community, and enhancing the overall college experience. The annual Cultural Meet and numerous events held throughout the year demonstrate the council's dedication to cultivating a vibrant and inclusive cultural atmosphere at IIT. These are the plethora of clubs and societies :

#### Societies

- Film Production Society: Yuvraj Mandrah and Galaba Vamsi
- General Oratory and Literary Society (GOALS): Snehal Suhane and Aditya Yadav
- Nirvana: Mental Health and LGBTQ Support: Joseph Konduri and Anamika Rajesh

#### Clubs

- Drishya: The Drama Club: Ketan Rakesh
- The Pixel Snappers: The Photography Club: Ganta Srujan
- Beat Hackers: The Dance Club: Ayush Patel
- Swara: The Music Club: Aditya Bajpai
- DesignX: Digital Arts Club: Sai Surya Talla
- Renaissance: The Arts Club: Lakshay Gupta
- Quizzotica: The Quizzing Club: Uday Bhardwaj
- Ne'er Passe: The Fashion Club





- **Ek Bharat Shreshtha Bharat (EBSB): Ritika Singh Katoch**



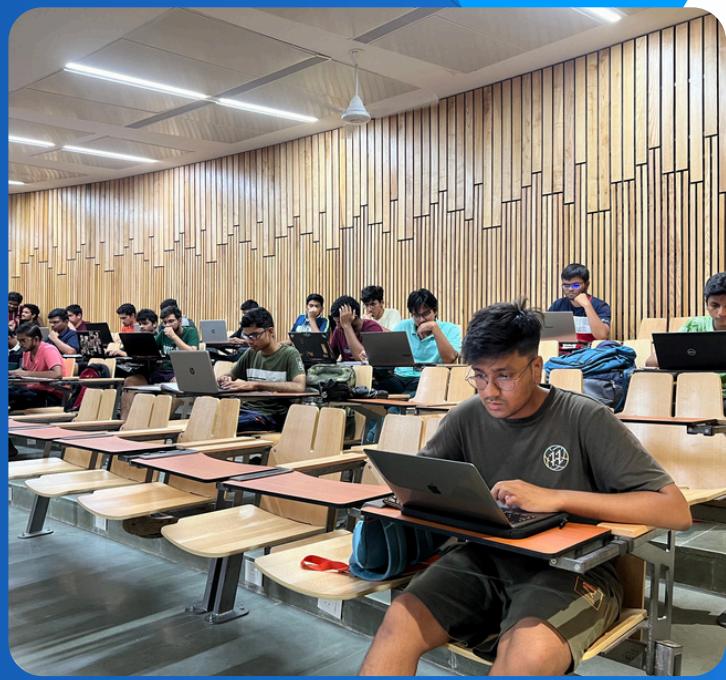
Ek Bharat Shreshtha Bharat (EBSB) is a government initiative that aims to enhance interaction & promote mutual understanding between people of different states/UTs through the concept of state/UT pairing. The states carry out activities to promote a sustained and structured cultural connection in the areas of language learning, culture, traditions & music, tourism & cuisine, sports and sharing of best practices, etc. The state of Chhattisgarh is paired with Gujarat. EBSB conducts various events such as quizzes, essay writing competitions, and photography competitions to promote knowledge about culture among students. Moreover, we organize fun activities at festivals like Janmashtami, Onam, and Navratri. We also aim to promote the beautiful tribal culture of the state of Chhattisgarh.

## Sci-Tech Council

Sci-Tech is a preeminent and vibrant entity, resolutely devoted to enriching the collegiate experience by advancing an extensive array of technological endeavors, and is a crucial aspect of student life. Led by the General Secretary of Science and Technology Affairs, the SciTech council oversees various clubs and societies dedicated to different fields of science and technology, including competitive programming, open source, robotics, data science and artificial intelligence, blockchain, astronomy, astrophysics, and more. These clubs equip students to deepen their academic understanding by translating it into practical, real-world applications. Members of SciTech clubs, motivated by their interests, often extend their knowledge well beyond the academic curriculum, developing industry-relevant skills through self-directed learning. The SciTech council comprises various clubs and societies that encompass the entire technological field, each with its coordinators and heads:



- **Ingenuity: The Competitive Programming Club:** Koosh Gupta and Manopriya Mondal
- **OpenLake: Open Source Community:** Nishchay Rajput and Sumit Pathak
- **Epsilon: The Robotics Club:** Pradeep J. and Chetan
- **Data Science and Artificial Intelligence Club:** Bhavik Shangari and Hemanth Chowdary
- **BlockChain at IIT Bhilai:** Nikhil Shrey and Arya Lanjewar
- **Space Exploration Society:** Sai Kamal and Sidhesh Kumar Patra
- **Electromos: The Electronics Club:** Omendra Kumar Upadhyay
- **Motorsports Club:** Aarya Shadangule





- **Tinkering Lab:** Sourabh Thakur and Bhavik Shangari

Embark on a journey of innovation and creativity at our Tinkering Lab, a dynamic space where ideas flourish and imaginations come to life. Also referred to as a Makerspace or Tinker Space, it serves as a haven for hands-on learning and collaborative exploration. Entirely student-managed, this space is a testament to our ethos: "For the students, By the students, Of the students." Here, individuals are empowered to experiment independently or collaborate across disciplines, leveraging state-of-the-art tools and resources to transform concepts into tangible solutions. Beyond fostering personal growth, our Tinkering Lab instills a sense of social responsibility, encouraging students to channel their ingenuity towards initiatives that benefit society. Welcome to a world where innovation knows no bounds.

# Sports Council

The Sports Council of IIT Bhilai has always played a fair role and will continue to do so to develop vibrant players and teams and bring glory to the institute. Every year, the institute hosts a fervent concoction of various sports events designed and organized to increase the participation and interest of young IITians in sports. With its numerous physical activities, the Sports Council is constantly concerned with the health and fitness of its students. Prayatna, IIT Bhilai's sports tournament, is the most important of all its endeavors, which includes numerous other sporting matches such as badminton, chess, basketball, football, volleyball, cricket, and many others.



## Information for First Year Students

At IIT Bhilai, the students are given complete independence and the freedom to reshape their technical skills and personal traits. You shall enjoy freedom in innovative thinking beyond the boundaries and produce solutions to several technical problems in our country and the world. To support yourself in taking this transitional step as a natural progression, you should keep a few things in mind, such as how to organize your day, the importance of classes, note taking and interactions with the faculty and seniors, judicious use of social media, and the internet, proper time management, and such similar things. IIT Bhilai is a ragging-free campus, and you shall be required to give an undertaking countersigned by your parents. IIT Bhilai follows a zero-tolerance towards ragging. IIT Bhilai also associates senior students as mentors to make your stay comfortable. You should not hesitate to contact faculty members or staff to address your needs and help or direct you as required.

### Orientation Schedule

IIT Bhilai organizes an orientation program, and all first-year students must attend it without fail. The importance of the orientation program can't be undermined since it is designed to make your transition as smooth as possible. The students are encouraged to follow the institute website at <https://www.iitbihilai.ac.in> for more updates.

### Preparation before you start

Students are requested to bring the following items with them. Essential items can also be purchased at the stalls set up by various shops on the day of orientation

- A four-key lock is required for the security of the hostel room, which can be shared with other roommates.
- Keep about twenty (**20**) **passport-size photographs (3.5 cm X 4.5 cm)** ready with you, as these shall be required for various purposes, such as for Registration at IIT Bhilai, for a sim card, for opening a bank account, for a loan application, etc.
- Bring receipts of all cash payments you made at the time of JEE counseling.

Identification documents like an **Aadhaar card, ID proof, and address proof** are required for registration, a **SIM card**, and **bank account** (optional) opening. Please see the checklist for the documents IIT Bhilai will need from you. The list of certificates and forms required for registration are mentioned on the next page.

- If you are on any medical treatment, bring the relevant **prescription** and **medicine**.
- Parental undertaking is required, which will be used in unusual situations.
- Mattresses (buy or bring), linen, pillows, and blankets are required for living in the hostel room.
- Sports shoes, regular shoes, physical activity dresses, personal clothing, 1-2 formal dresses, hangers, towels, toiletries, bags, etc., are required for regular and sports activities.
- Other than these essential requirements, some of the optional items which may be useful to you are given below. These may also be purchased at Bhilai, but they require some time.
- A lab coat and safety glasses (especially for the chemistry lab) are required during the lab session
- An umbrella/raincoat is required during the rainy season (from July to September).
- Mosquito net/mosquito repellent are required and essential for health protection
- Winter clothes are required as per the suitability of Bhilai's weather.
- Cotton clothes are best suited for the summer at Bhilai.
- Other items, like an alarm clock, mobile phone, bicycle, laptop, chargers, pen drives, earphones, calculator, power extension cords, torch, study lamp, bicycle, and medicines, can be brought. Hobby-related items like cameras, books, sports items, paintings, drawings, etc., can be brought per your interest.

### **Checklist for New Students (BTech / Msc / Mtech / PhD)**

Please bring all original certificates for verification. income certificate of parent(s) (Father & Mother) / Guardian is mandatory for claiming financial benefits under various schemes

<b>Details</b>	<b>Yes/No</b>
1. Fee Receipt was Paid at the time of JOSAA/ JAM admission counseling	
The following forms are to be filled/signed/counter-signed in the original	
1. Registration Form	
2. Anti-ragging undertaking Form	
3. Declaration for Non-use of Powered Vehicles inside IIT Bhilai Campus	
4. Student Consent form for English Language Test (for BTech Admission only)	
5. Hostel Accommodation Form	
6. Medical fitness certificate	
7. Anti-smoking undertaking Form	
8. EWS Certificate (if applicable)	
9. OBC (Non-Creamy Layer) Certificate (if applicable)	
10. Family Income Certificate (if applicable only for BTech)	

Details		Yes/No
Self-Attested photocopies of the following		
1.	Provisional seat allotment letter (for BTech Admission only)	
2.	Admit card of JEE Advanced (for BTech Admission only)	
3.	Class X mark sheet and certificate	
4.	Class XII or equivalent mark sheet and certificate	
5.	Bachelor's / BTech / MTech / Master's degree certificate and mark sheet (for MSc / MTech/ PhD Admission)	
6.	GATE score / JAM Rank Card/ UGC-NET/JRF (for MSc/MTech/PhD as applicable)	
7.	Category Certificate (OBC-NCL/ SC/ ST/PwD/EWS), if applicable	
8.	Original Income Certificate(s) of Parent(s) (Mother & Father) / Guardian (Certificate to be issued by the Revenue Authority not below the rank of Tehsildar, if applicable)	
9.	Aadhaar Card	
10.	Passport (for foreign nationals) or OCI certificate or PIO card, if applicable	

## Information for the parents

IIT Bhilai would like to engage with parents to promote the holistic development of their students. For many of you, your ward may be staying away from home for the first time and living in a hostel where the comfort levels may not be at par with the ones available. However, it is our endeavor to make it as comfortable as possible. As you might understand, individual student attention at all levels is impossible. However, we have created a strong mentorship program to come up with a solution. We do our best to shape your ward's future with the highest quality of professional education. In addition to this, we would like to connect them with the country's social fabric, an appreciation of the environmental problems, and to find solutions. We would like you to be part of the growth story of your ward. We would encourage you to contact us about their well-being and any concerns you may have. This will be a major phase for students and their transition from a sheltered life to a life of independent thinking and decision-making. Your help in making this transition as smooth as possible will support their endeavors. Feel free to contact us by email or phone if you need urgent attention.



## City Of Bhilai



Bhilai is located in Chhattisgarh, with a rich industrial heritage and a promising future. Its steel plant and skilled workforce have helped it emerge as a major industrial hub in India. The city's cultural heritage and recreational spots also make it an attractive tourist destination.

It is known for its steel plant, one of the largest in India, and has been the backbone of the city's economy since its inception. The city was planned and built in the 1950s to accommodate the steel plant workers and their families, and has since grown to become a major industrial hub.

The Bhilai Steel Plant, which was set up in collaboration with the Soviet Union, is a major contributor to the Indian economy. It produces a wide range of steel products, including rails, plates, and structures. The plant is also known for its innovative practices, such as the use of blast furnace gas for power generation, and the recycling of waste materials to reduce environmental impact.

Apart from the steel plant, Bhilai has several other industries, such as cement, chemicals, and textiles. It is one of the biggest educational hubs of Chhattisgarh, with various coaching institutes with faculties carrying work experiences from the best institutes of India. The city also has many educational institutions, including the Indian Institute of Technology (IIT) Bhilai, and a number of engineering and management colleges. This has led to the development of a skilled workforce, which has helped attract more industries to the city. Bhilai is also known for its greenery and has major contributions to agriculture, mining and manufacturing in its economy.

Bhilai is also known for its cultural heritage. The city has several temples and shrines, including the Maitri Bagh Temple and the Shiv Mandir. The city also has several parks and gardens, such as the Jawaharlal Nehru Park and the Smriti Van. These places serve as popular recreational spots for the locals and tourists alike.

In recent years, Bhilai has seen significant growth in the IT sector. The city has several IT parks and is home to many IT companies, such as Wipro and HCL. This has helped diversify the city's economy and attract more investment.

Bhilai's cosmopolitan environment is a result of its diverse population, the presence of educational institutions like NIT Raipur, AIIMS Raipur, IIM Raipur, and now IIT Bhilai, and an inclusive spirit of communal harmony. This has made the city a melting pot of cultures, with a rich mix of languages, traditions, and customs, making it a unique and vibrant place to live and work.

IIT Bhilai's campus is situated in Kutelabhata village of Durg district. The address is as follows: IIT Bhilai, Kutelabhata Village, Durg District, Bhilai-49001, Chhattisgarh

One can reach Bhilai via air, train, or road.



### **By Air:**

Swami Vivekanand Airport, Raipur, is the nearest airport to the city of Bhilai, roughly 48 km away, and it takes nearly 1.5 hours to reach. The airport is 53 km away from IIT Bhilai's campus.

After arriving at the airport, one can use other modes of transportation to reach the campus, such as:

- Intercity buses from Raipur to Bhilai are frequent, so one can take a bus from Raipur to Bhilai.
- One can also take an authorized or prepaid taxi from the airport directly to the campus.



### **By Train:**

Durg Railway Junction is 9 km from the campus and takes 15-20 minutes to reach. After arriving at the railway station, various transport facilities like auto-rickshaws can be availed to reach the campus.



### **By Road:**

The campus is 5 km away from the Great Eastern Highway. The campus is well-connected by roadways. Durg Bus Stand is 8.2 km away from the campus.



### Institute Related Websites:

- **IIT Bhilai** : <https://www.iitbihilai.ac.in/>
- **Academics**: <https://aimsportal.iitbihilai.ac.in/iitbhAims>
- **SMP**: <https://polaris.iitbihilai.ac.in>
- **Meraz**: <https://meraz.in/>
- **IIT Bhilai Cultural**s: <https://culturals.iitbihilai.ac.in/>
- **DSC**: <https://dsc.iitbihilai.ac.in/>
- **Epsilon Club**: <https://roboticsclub.iitbihilai.ac.in/>
- **IIC**: <https://iic.iitbihilai.ac.in/>
- **Polaris**: <http://polaris.iitbihilai.ac.in>

### Important Documents to Refer:

- Brochure
- Student Handbook
- Academic Calendar

#### Fee Structure and Payment Options

All of the above are available on the institute website and a link will be provided on the SMP website - Polaris. Students are advised to go through the same before coming to the institute.

Check out some informative and fun videos on our YouTube channel – 'IIT Bhilai' to get a view of life at IIT Bhilai.

### Social Media Accounts :

- IIT Bhilai: <https://www.facebook.com/iit.bh>
- COSA IIT Bhilai: <https://www.facebook.com/COSA-IIT-Bhilai>
- IIT Bhilai Sports: <https://www.facebook.com/SportsIITBhilai>
- IIT Bhilai Cultural: <https://www.facebook.com/IITBhilai.Cult/>
- Meraz, IIT Bhilai: <https://www.facebook.com/meraz.iitbh/>
- NSS-IIT Bhilai: <https://www.facebook.com/nssiitbihilai>
- EBSB-IIT Bhilai: <https://www.facebook.com/ebsbiitbihilai>
- iitbihilai : <https://instagram.com/iitbihilai>
- sports\_iidtbhilai : [https://instagram.com/sports\\_iitbihilai](https://instagram.com/sports_iitbihilai)
- culturals\_iitbihilai : [https://instagram.com/culturals\\_iitbh](https://instagram.com/culturals_iitbh)
- meraziitbh : <https://instagram.com/meraziitbh>
- nssiitbihilai : <https://instagram.com/nssiitbihilai>
- ebsbiitbihilai : <https://instagram.com/ebsbiitbihilai>
- Twitter Account : [https://twitter.com/IIT\\_Bhilai](https://twitter.com/IIT_Bhilai)
- LinkedIn-Account: <https://www.linkedin.com/organization-guest/school/iit-bhilai>

## CONVOCATION

IIT Bhilai hosted its second convocation and awarded degrees to students on June 18, 2022. This year's graduates included 102 BTech, 12 BTech (Honors), 11 MTech, 6 PhD, and 14 MSc students. The degrees were given out in digital format to achieve the goal of Digital India. The certificates were digitally signed by each signatory and stored on a pen drive. They were uploaded to DigiLocker, a government-approved digital repository connected to the students' Aadhar IDs as well.



## MESSAGE FROM SENIORS



First of all, I congratulate you all for qualifying one of the toughest exams of India ! It really takes a lot of effort to be an IITian...man, it was a hustle right ? But behold, another journey awaits - this is different though, it will teach you more about life then textbooks ever will !My message for you all will be to just let go of yourself completely. Love people around you..just be the person you wished yourself to be. People will judge you for who you are but never let them change you...and remember, You are going to face depression, loneliness, heart-breaks and many more. Cry for sometime..but don't take too much and get back on track..Just learn from every experience and move on.After these years,You will love the person you had become.

Sankalp Raj  
ME' 25

Congrats, you made it! Get ready for a wild ride. Here, you'll find late-night Maggi sessions, epic cricket matches, and, of course, the occasional all-nighter before exams. Dive into the chaos, make new friends, and discover your passions. Remember, it's not just about the books – it's about the memories you create and the fun you have along the way.

Gear up and the best is yet to come!

Swagat Baghel  
ME' 27



You've made it to an amazing place, and we're thrilled to have you here. Embrace the learning curve—stay curious and don't hesitate to ask questions. Balance is key, so manage your time well between studies, activities, and relaxation. Dive into campus life by joining clubs and attending events to meet new people and have fun. Building connections with your peers, seniors, and professors is invaluable, so network as much as you can. Prioritize your health, both physical and mental—eat well, exercise, and seek support if needed. Take advantage of the resources here to explore and innovate on exciting projects. Stay positive, embrace challenges, and celebrate your successes. Enjoy this journey and make every moment count

Raj Mondal  
2025 MSc Physics

Welcome Freshers! As your just senior, I'm here to guide you through every step of your college journey and beyond. Whether you need advice on academics, campus life, or anything else, feel free to reach out—I've got your back! And speaking of sports, let's dive right in! Whether you're an aspiring athlete or simply looking to stay active, I encourage you to explore the various sports facilities and clubs available here. Just Relax and have fun, Finally you are in an IIT now!!!

Tanishq Gupta  
BTech 2027 EE





Welcome to IIT BHILAI ! As a third-year senior, I'm thrilled to see new faces and eager minds joining us. Embrace every moment, explore your passions, and dive into new experiences. Remember, we're here to support you every step of the way. Don't hesitate to reach out for advice or help. This is your time to grow, learn, and make unforgettable memories. Welcome aboard!

Shivam  
DSAI' 26

As a senior from the Engineering branch, I can assure you that you are about to embark on an incredible adventure filled with opportunities for learning and growth. Throughout my time here, I've learned that learning and curiosity are key. Don't be afraid to ask questions, seek help from your professors, and collaborate with your batchmates. The knowledge and skills you acquire will be invaluable.

Prince  
EE' 27



First of all congratulations on clearing JEE Advance. You must have faced many sleepless nights and grueling exams but your hard work and determination have led you here. Kudos to all of you!!! . Welcome to IIT Bhilai !!! As you begin your college journey, it might be overwhelming to be in an unfamiliar place with unseen faces, but this is true beauty of college. These unseen faces will become your best buddies and these unfamiliar places will turn to memorable spots. Try all the things you have been wanting to do. And last but definitely not the least, have loads of fun 😊

Ritika Singh Katoch  
EE' 27

First of all, congratulations on making it to IIT Bhilai and becoming a part of our family. You will be provided with exciting opportunities in both academic and extracurricular fields. Hostel life here will teach you to live with responsibility and have fun with your peers. The seniors are very helpful and friendly. Participate in as many activities as you can. Hope to meet you all soon on the IIT Bhilai campus.

Aditya Jha  
CSE' 27



Hello freshers....congrats for your new journey and welcome to IIT Bhilai....This college life is going to change your life completely. It will be a complete rollercoaster ride for you. Certain days will be really enjoyable some will be stressful but remember college is not just about academics. It's also about discovering who you are, building lasting friendships, and creating unforgettable memories. Don't hesitate to get involved in clubs, organizations, and campus events. These experiences will enrich your time here and help you develop skills that go beyond the classroom.

Sudeshna Kumari  
Mechatronics' 27



**भारतीय प्रौद्योगिकी संस्थान, भिलाई**  
**Indian Institute of Technology Bhilai**