



INDIAN INSTITUTE OF TECHNOLOGY, BHILAI

भारतीय प्रौद्योगिकी संस्थान, भिलाई



PLACEMENT BROCHURE

2025-26

Centre for Career Planning and Services, IIT Bhilai

कैरियर नियोजन एवं सेवा केंद्र, आईआईटी भिलाई



<https://www.iitbhilai.ac.in/index.php?pid=placement>



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IIT Bhilai

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ABOUT THE INSTITUTE

Indian Institute of Technology (IIT) Bhilai, established in 2016 by the Ministry of Education in Chhattisgarh, is one of twenty-three prestigious IITs. Initially offering a Bachelor of Technology (BTech) program, it now provides a range of undergraduate and postgraduate courses. The institute has developed essential infrastructure, including labs for 3-D printing, fabrication, electrical engineering, computing, and a library. IIT Bhilai fosters partnerships with industry, academia, and government bodies, emphasizing research-driven education, entrepreneurship, technical leadership, and responsible citizenship.

The institute is relocated to its permanent, state-of-the-art GRIHA 5 Star-rated campus in Kutelabhata, Durg, Bhilai. This new campus supports IIT Bhilai's commitment to excellence in education, research, and innovation. The institute aims to create a conducive environment for technological and cultural studies, promoting independence, national progress, innovation, and originality while upholding core values of righteousness, brilliance, inventiveness, academic finesse, and accountability.

01 VISION/MISSION

- To provide a conducive environment for technological and cultural studies
- Respect and encourage independence
- To Provide technological cognizance to speed the wheels of national progress
- To stimulate innovation and originality
- To Strive for brilliance and eminence in diverse spheres

01 DEPARTMENTS

- Computer Science and Engineering
- Electrical Engineering
- Electronics and Communication Engineering
- Mechanical Engineering
- Materials Science and Metallurgical Engineering
- Mechatronics
- Bioscience and Biomedical Engineering
- Mathematics
- Physics
- Chemistry
- Liberal Arts





ABOUT CCPS

Welcome to the Center for Career Planning and Services (CCPS) at the Indian Institute of Technology, Bhilai.

As the premier placement office of our institute, we are dedicated to guiding and supporting our students in their career journeys. The CCPS Team is led by Dr. Soumajit Pramanik (Faculty in charge), with faculty coordinators from each discipline. Additionally, an able-minded student placement team comprising 51 members works assiduously on tasks pertinent to their domain.

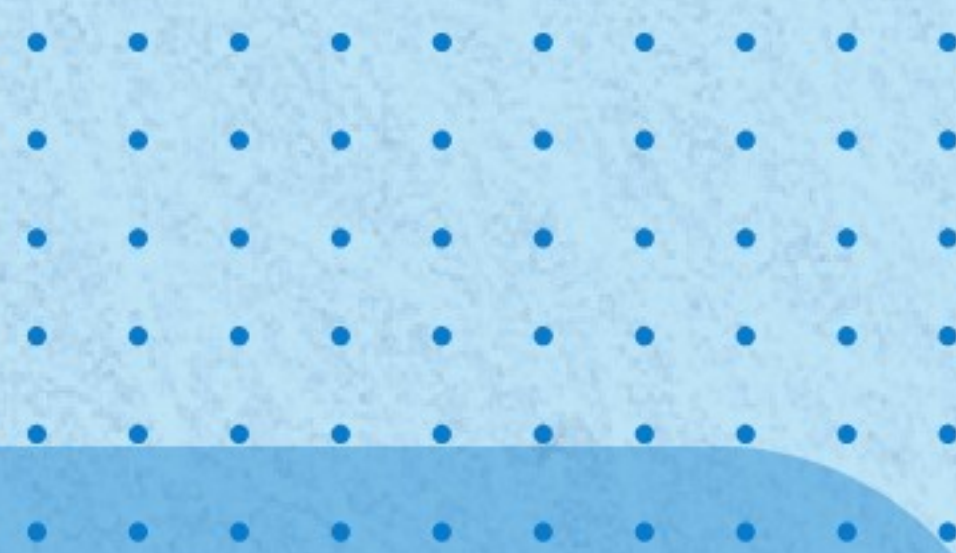
We are delighted to announce that so far, six successful placement sessions have been conducted, with over 650 offers extended to students. Leading recruiters include Google, Amazon, HPCL, Warner Bros Discovery, MECON, DE Shaw, Intuit, Applied Materials, Sprinklr, Commvault, Paytm, Schneider Electric, Mesho, Atonarp, Dunzo, AirAsia Technology Centre, and Larsen & Toubro, among others. The next campus placement session 2025-2026 is going to commence in September 2025 and is expected to achieve even greater heights. These sessions also illustrate that our efforts have gone towards developing a comprehensive environment accommodating each student's potential and esteemed aspirations.

At CCPS, we focus not only on academic learning but also on practical aspects. Pre Placement preparedness sessions include comprehensive tests and training development through technical or soft skills studies. Mock interviews and discussions are held weekly to prepare our students for better placements. We provide comprehensive support and technical resources for higher education opportunities in India and abroad.

Recognizing the significance of competitive exams, we organize informative sessions and workshops to guide our students in preparing for exams like GATE, PSUs, and others. Our strong network of esteemed companies regularly visits our campus, resulting in impressive placement records and a high student placement percentage. We are dedicated to establishing enduring, mutually beneficial relationships with organizations to contribute to our community and the nation as a whole.



DIRECTOR'S DESK



A warm welcome to IIT Bhilai, it gives me immense pleasure to write to you. IIT Bhilai has grown tremendously since its inception in 2016 and is slowly but surely evolving in stature. Our institute has established the required infrastructure, including a permanent campus spread over 400 acres in Bhilai, Durg district, Chhattisgarh. Our highly qualified faculty members are renowned in their respective fields and are recognized globally for fundamental and result-oriented research. We believe in fostering multidimensional social development through student clubs and co-curricular activities, which play a crucial role in nurturing professional talents. Thus, our students have been adequately prepared to unleash their potential.

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. The CCPS Office runs smoothly under the supervision of Dr. Soumajit Pramanik (Faculty In-Charge) and Dr. Dhiman Saha (Associate Faculty In-Charge), who are supported by faculty coordinators 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. This placement brochure will help the students who will participate in the seventh placement session, i.e., the students who will be graduating in the year 2026.

All the best!

Prof. Rajiv Prakash
Director, IIT Bhilai

MESSAGE FROM FACULTY-IN- CHARGE



Greetings from the Indian Institute of Technology Bhilai!

We are excited to introduce our upcoming batch of talented and industry-ready graduates who are all set to embark on their professional journeys. The final placement season at IIT Bhilai is scheduled to begin in September 2025, and we warmly invite your esteemed organization to be part of this drive. This will mark the seventh edition of our campus placements.

Despite the ongoing challenges in the job market, we are proud to share that the previous placement season concluded on a high note. More than 145 offers were made, with the average package nearing ₹13 LPA. Notably BTech disciplines like Computer Science and Engineering (CSE) and Data Science and Artificial Intelligence (DSAI) achieved more than 75% placements and MTech disciplines like CSE, Design and Manufacturing, and Mechatronics Engineering got more than 80% placement statistics. We were also honoured to host an international recruiter for the third consecutive year, who selected four of our students — further strengthening IIT Bhilai's growing presence in the global talent ecosystem.

Our permanent campus at Bhilai now boasts cutting-edge infrastructure, including modern classrooms, high-tech laboratories, and dedicated spaces for interviews and discussions. These facilities ensure a smooth and productive recruitment experience for all visiting organizations.

The institute's curriculum is thoughtfully designed to blend academic depth with practical exposure. Through research-led projects, hands-on labs, and innovation-driven workshops, our students are trained to meet the dynamic demands of the industry. We've also rolled out new initiatives such as industry-linked projects, entrepreneurial development programs, and advanced tech workshops to further enhance student readiness.

We sincerely invite your organization to join us in our Campus Placement and Summer Internship drives this year. We look forward to strengthening our existing partnerships and building meaningful new associations that benefit both our students and recruiting organizations. Thank you for your continued trust and collaboration.

Dr. Soumajit Pramanik

MESSAGE FROM TRAINING & PLACEMENT OFFICER



It is with immense pride and enthusiasm that I introduce the vibrant and talented student community of the Indian Institute of Technology Bhilai. Since its inception, IIT Bhilai has remained committed to academic excellence, fostering a strong foundation in research and innovation, and nurturing a culture of creativity and critical thinking.

Our students undergo a well-rounded and rigorous curriculum, enriched with hands-on project work, internships, and active involvement in co-curricular and extra-curricular activities. This holistic approach prepares them with the technical proficiency, problem-solving acumen, and collaborative mindset required to excel in today's dynamic and evolving professional landscape.

At IIT Bhilai, we deeply value our association with recruitment partners and are equally enthusiastic about exploring broader avenues of collaboration. We welcome opportunities for engagement through technical talks, hackathons, mentorship programs, and other industry-academia initiatives for the upcoming placement season for 2025-2026.

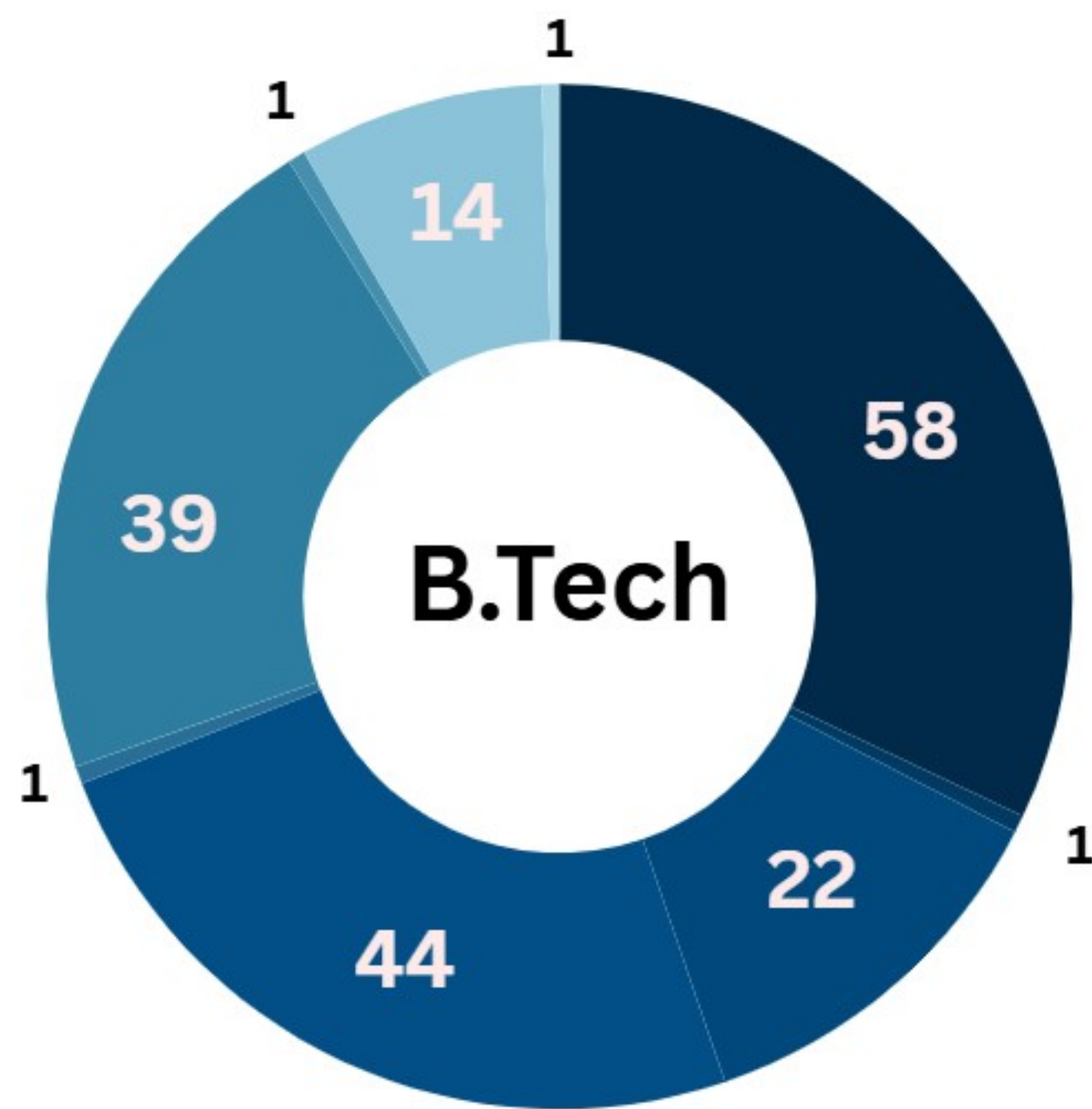
We look forward to building a strong, enduring, and mutually rewarding partnership with your organization.

Mr. Vinayak Banakar



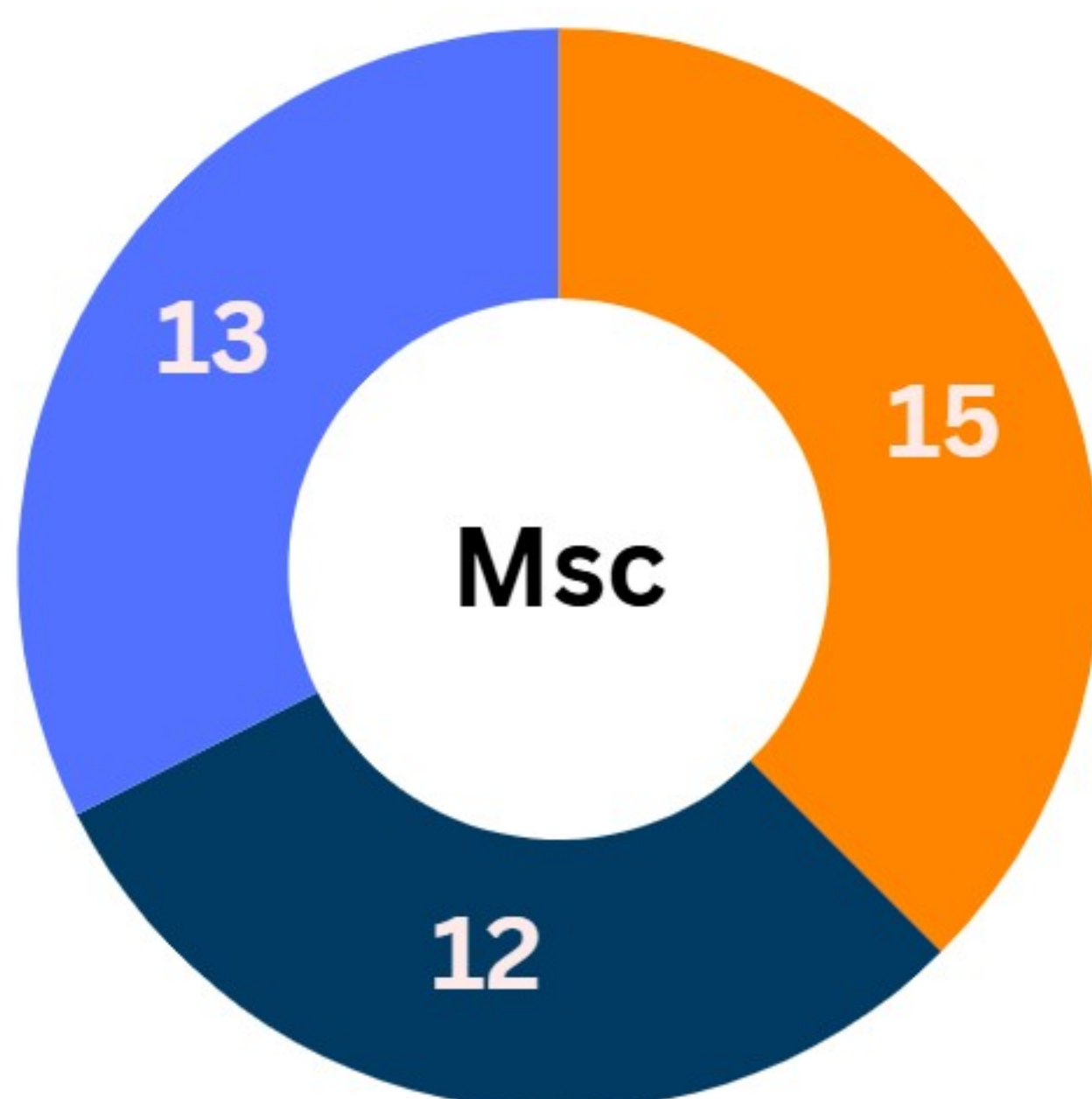
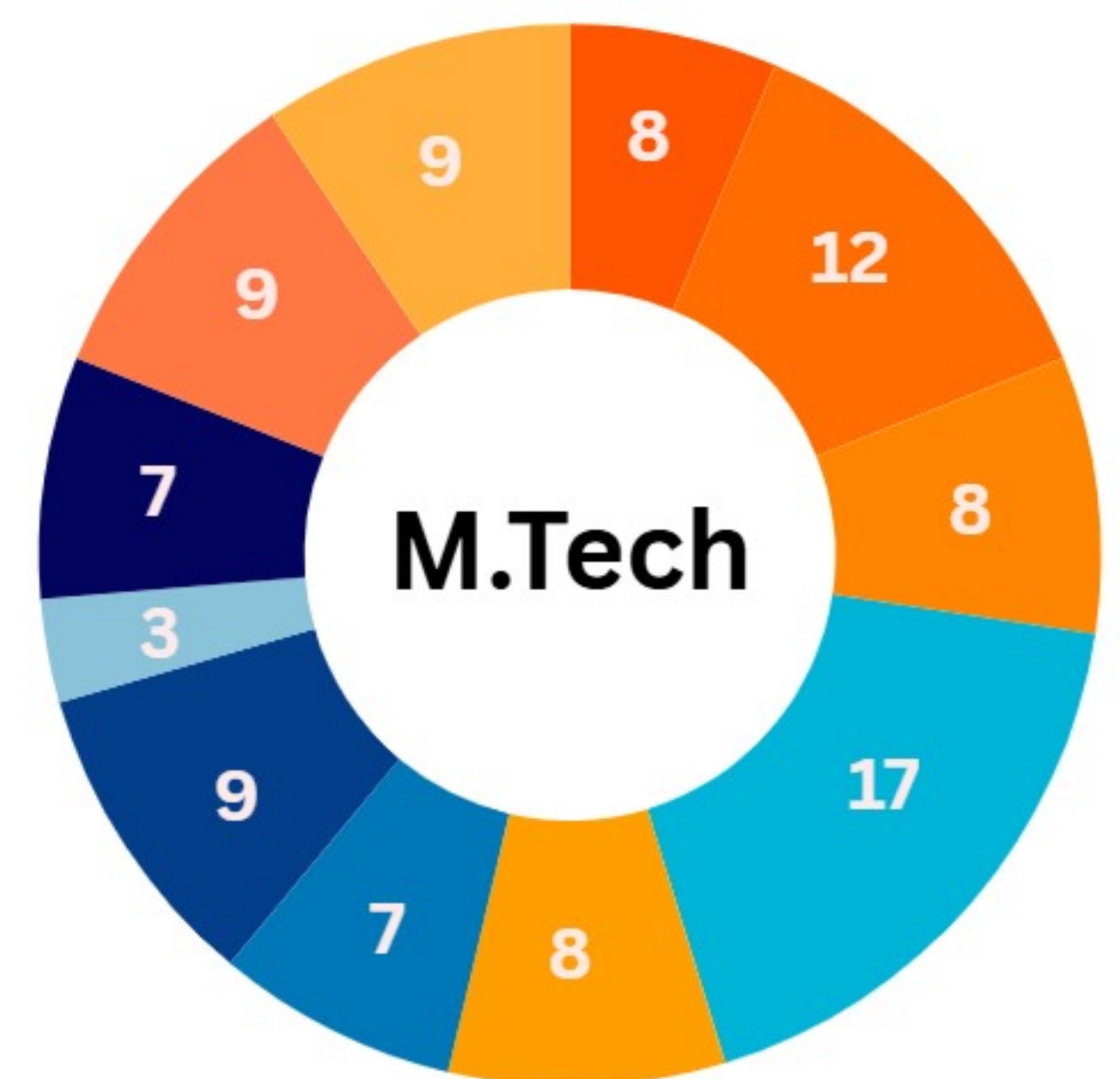
STUDENT DEMOGRAPHICS

2025



- CSE (58)
- CSE-DSAI (1)
- DSAI (22)
- EE (44)
- EE-CSE (1)
- ME (39)
- ME-CSE (1)
- MT (14)
- MT-CSE (1)

- Bio Engineering (8)
- Computer Science and Engineering (12)
- Control and Instrumentation (8)
- Data Science and Artificial Intelligence (17)
- Design and Manufacturing (8)
- Electric Vehicle Technology (7)
- Electronics and Communication Engineering (9)
- Material Science and Metallurgical Engineering (3)
- Mechatronics Engineering (7)
- Power Systems and Power Electronics (9)
- Thermal and Fluids Engineering (9)



- Chemistry (15)
- Mathematics and computing (12)
- Physics (13)



ACADEMICS

IIT Bhilai fosters student excellence through various recognition methods and offers a range of academic programs including BTech, MTech, MSc, and PhD across multiple disciplines. The programs cover fields such as Bioscience and Biomedical Engineering, Chemistry, Computer Science, Data Science, Electrical Engineering, Electronics, Liberal Arts, Materials Science, Mathematics, Mechanical Engineering, Mechatronics, and Physics.

IIT Bhilai's academic structure follows the fractal academics model, which atomizes courses into breadth and depth, allowing for modern education methods like tele-education and interdisciplinary studies. This model offers flexibility, a wide choice of electives, undergraduate research opportunities, industry interaction, and creative arts courses.

01 BTech

- Computer Science And Engineering
- Data Science And Artificial Intelligence
- Electrical Engineering
- Electronics And Communication Engineering
- Materials Science And Metallurgical Engineering
- Mechanical Engineering
- Mechatronics Engineering

03 PhD

- Computer Science And Engineering
- Data Science And Artificial Intelligence
- Electrical Engineering
- Electronics And Communication Engineering
- Materials Science And Metallurgical Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Bioscience and Biomedical Engineering
- Mathematics
- Physics
- Chemistry
- Liberal Arts

02 MTech

- Computer Science And Engineering
- Data Science And Artificial Intelligence
- Electric Vehicle Technology
- Electronics And Communication Engineering
- Power Systems and Power Electronics
- Control and Instrumentation
- Materials Science And Metallurgical Engineering
- Design and Manufacturing
- Thermal and Fluids Engineering
- Mechatronics Engineering
- Bioengineering
- Biomedical Devices
- Microelectronics and VLSI

04 MSc

- Chemistry
- Physics
- Mathematics and Computing



WHY CHOOSE IIT BHILAI ?



Top Ranking amongst Engineering Institutions (NIRF 2024)

IIT Bhilai secured the 73rd position in NIRF 2024 among the top 200 engineering colleges in India, 11th among all IITs in the Placement and Higher Studies Matrix, and 2nd among 3rd Generation IITs in the Median Salary Matrix, reflecting our commitment to excellent placements and student career success.



World Class Curriculum and Faculty

IIT Bhilai has best-in-class faculty not only for their academic expertise but also for their global experience and insight. The institute provides a comprehensive yet flexible learning environment, with stress over project-based and hands-on teaching and liberal arts and creative arts to impart a more holistic education.



Rigorous Selection

The undergraduates at IIT Bhilai are scrutinized through IIT-JEE. The selection of various programmes at IIT Bhilai is extremely stringent to ensure that only the best of the students throughout the country secure admission which is considered one of the toughest examinations across the globe. Only the top 2% of the students make it to the IITs.



Research and Collaboration

IIT Bhilai collaborates with research and industry through projects like the IMPRINT Grant, Nano Mission, and DST Inspire. Students work on faculty-led projects, including smart card solutions and vending machines. Numerous MoUs with industries and academia foster a collaborative environment, bridging the gap between industry and academia.



Holistic Development

We encourage students to develop their full potential beyond the classroom. Soft skills are integrated into the curriculum through presentations and open-ended learning. Students actively manage technical clubs in electronics, coding, robotics, and space exploration, as well as clubs for dance, music, theatre, oratory, writing, art, and photography.



Researchers' Colloquium 2023-24-W



DEPARTMENTS



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

The Department of Computer Science and Engineering (CSE) and Data Science and Artificial Intelligence (DSAI) at IIT Bhilai houses two major engineering disciplines, which are crucial in shaping cultural and civilizational progress. Whether it's the installation of precision cameras on GPS satellites, detecting gravitational waves, or forecasting weather hazards, the impact of computer and data science on our daily lives is profound and lasting.

Initially, the department offered programs exclusively in computer science and engineering. Recognizing the growing importance of data science for industrial and economic productivity, the department launched UG and PG programs in Data Science and Artificial Intelligence (DSAI) in 2020. Despite being relatively new, these programs have rapidly evolved, offering a diverse range of advanced courses thanks to our dedicated faculty. Supported by professional administrative bodies, the department has seen significant growth and impressive output in quality and quantity.

Our faculty profiles reflect the broad spectrum of research and teaching activities in the CSE department. Driven by a commitment to serve humanity, our research projects and teaching endeavors aim to address some of the world's most pressing challenges. The department's culture emphasizes humor and kindness, creating a vibrant and engaging environment for students and faculty.

HIGHLIGHTS:

- Akbar Basha and Anand M. Baswade "Numerology-Aware MCOT Selection for Improving Fairness in 5G NR-U Networks" in IEEE Communications Letters, 2023.
- Dr. Anand Baswade has presented a paper and chaired a session in IEEE 99th Vehicular Technology Conference (VTC2024-Spring) at Singapore, June 24-27. The title of the paper is "Where is my Route? Enabling Source Routing in LEO Satellite Networks", Authors: Satvik Vemuganti, Anand Baswade
- Sahiba was invited to the prestigious Women in Security and Cryptography Workshop (WISC) which is conducted for female PhD students and outstanding female students in the field of IT security and offers expert presentations and exchanges of senior and junior female researchers in this field.
- Dipojwal Ray, Yogendra Sao, Santosh Biswas, and Sk Subidh Ali. 2023. On Securing Cryptographic ICs against Scan-based Attacks: A Hamming Weight Distribution Perspective. J. Emerg. Technol. Comput. Syst. 19, 2, Article 10 (April 2023).
- The 10th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM-2024), held under aegis of the Association for Computer Science and Discrete Mathematics (ACSDM) at IIT Bhilai, brings together researchers in algorithms and applied discrete mathematics to discuss and disseminate research findings in these fields.





DEPARTMENT OF ELECTRICAL ENGINEERING

The Electrical Engineering Department at the Indian Institute of Technology Bhilai (IIT Bhilai) is a dynamic and innovative department committed to excellence in teaching, research, and professional development. Established in 2016, IIT Bhilai offers three undergraduate specializations: BTech in Mechanical Engineering, BTech in Electrical Engineering, and BTech in Computer Science and Engineering.

The Electrical Engineering Department is a crucial part of engineering teaching and research at IIT Bhilai. It plays a vital role in providing education, conducting research, and producing skilled professionals in the field of electrical engineering.

With a robust team of seven faculty members, all holding PhDs from prestigious institutions around the world, the department boasts a rich blend of expertise and experience. These esteemed faculty members are dedicated to advancing knowledge in the field and nurturing the next generation of electrical engineers.

The department currently has around 200 BTech students, 8 MTech students, and 11 PhD students, creating a vibrant and diverse academic community.

HIGHLIGHTS:

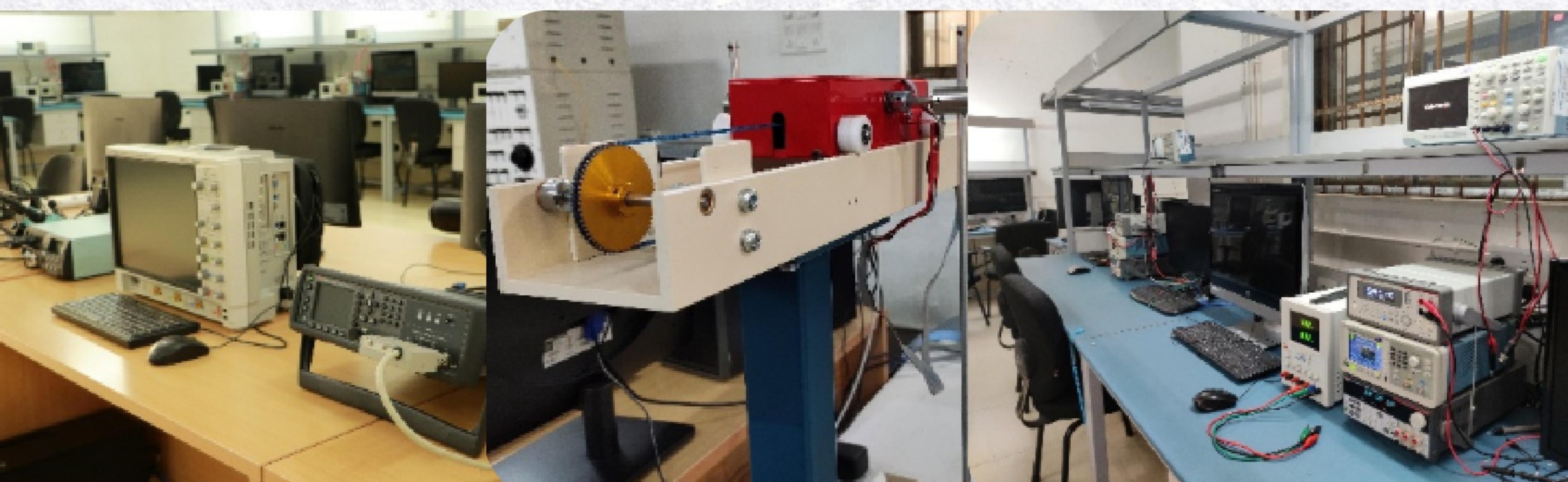
- Designed and fabricated perovskite-Si tandem solar cells and flexible perovskite solar cells under the DST-INSPIRE Faculty Award scheme, funded by the Department of Science and Technology (DST), Government of India. The project spanned five years (July 2016 – June 2021) with a total research grant of ₹35.00 lakhs (₹7 lakhs per annum).
- Led the research project titled “Design and Development of Multi-functional PV-Battery Based Smart Charging Stations for EVs, Household Load, and Grid” as the Principal Investigator. The project was funded under the Start-up Research Grant Scheme by SERB, Government of India, with a total grant of ₹31 lakhs.
- Served as Principal Investigator for the research project titled “Development of Fast Bidirectional Battery Chargers for Electric Vehicles Considering Power Quality Aspects,” funded by the M.P. Council of Science and Technology (MPCST) with a total grant of ₹7.4 lakhs.



FACILITIES & EQUIPMENT

- Digital Storage Oscilloscope up to 200 MHz
- Mixed Signal Oscilloscope up to 500 MHz
- Function Generator 25 MHz
- Programmable DC Power Supply Triple output
- Dual Channel Dynamic Signal Analyzer
- Low Noise Current and Voltage Preamplifier
- LCR Meter from 20 Hz to 2 MHz
- Source-Measure Unit
- PCB Printing Machine
- IR Camera
- Transformer & Rotating Electrical Machines Experimental Setup

- Embedded boards like Basys3, Zyboz7, Kintex, Zynq
- Vector Network Analyzer
- Double Beam Spectrophotometer UV 2600 with accessories
- Solar Module Analyzer
- UV Ozone Cleaner
- HOLMARC Spray Pyrolysis
- Opal RT Grid Simulator, DFIG Generator Unit, PV- Emulator - Inverter
- Artificial Intelligence Robotic Kit with Jetson Nano Development Board
- IoT Development Kit (Raspberry Pi, ODROID, Arduino, LoRa boards)





DEPARTMENT OF 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.

HIGHLIGHTS :

- **Access to Industry-Standard EDA Tools**

The department is equipped with industry-standard Electronic Design Automation (EDA) tools such as Synopsys, Cadence, and HSPICE, supporting advanced device modeling and circuit simulations for integrated circuit (IC) design and verification.

- **Active National and International Collaborations**

We maintain active research collaborations with prestigious institutions both nationally and internationally. Key partners include the University of Notre Dame (USA) and the Technical University of Munich (Germany). On the national front, the department collaborates with premier Indian Institutes of Technology (IITs), DRDO-Naval Research Board (DRDO-NRB), and DST IDEAS-Technology Innovation Hub (TIH), among others.

- **State-of-the-Art Fabrication and Circuit Design Lab**

A dedicated laboratory supports hands-on experience in semiconductor device fabrication and integrated circuit design, equipped with the infrastructure necessary to facilitate both academic research and industry-sponsored projects.

- **5G Communication and Advanced Wireless Lab**

The department houses a cutting-edge 5G Communication Lab, enabling research and development in next-generation wireless communication technologies. The lab supports work on signal processing, network simulation, and system-level testing, enhancing student and researcher capabilities in modern communication systems.

- **Industry-Academia R&D Collaborations**

We actively engage in R&D projects in partnership with industry, promoting knowledge transfer, real-world problem-solving, and technological innovation. These collaborations help align academic research with industry needs, ensuring relevance and impact.



RESEARCH DOMAINS

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.

Communication 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.



PROPOSED LABS

01

Microcontroller and Embedded Systems Lab

- NXP FRDM-KL25Z Boards

02

Electronics Lab

- Bread Boards
- DSO
- Power Supplies
- Multimeters
- Function generators
- Discrete Components
- ICs
- Spectrum Analyzers
- Vector Signal Generators
- PCB Machines
- Arbitrary Function Generators

03

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

04

Signal Processing Lab

- DSP Boards
- Computer Systems
- SDRs
- FPGAs

05

Communication Lab

- USRP Kits
- DSP Kits

06

Digital Electronics Lab

- FPGA Boards
- Computer Systems

07

Device Fabrication & characterization lab

- Source measuring unit
- Probe Station
- Thermal Evaporation Unit
- Spin Coater
- Ultra sonicator
- Photo-lithography
- Profilometer

08

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





DEPARTMENT OF MECHANICAL ENGINEERING

The Mechanical Engineering Department at IIT Bhilai is one of the institute's founding departments, established with a vision to deliver high-quality education and promote advanced research. From the outset, the department has offered a robust academic curriculum that blends theoretical foundations with practical experience.

Our state-of-the-art laboratories—such as the Automation Lab, Thermo-Fluidic Lab, and Fabrication Lab—are equipped with modern tools including robots, 3D printers, CNC machines, wire-cut EDM, laser cutters, internal combustion engines, and universal testing machines. These facilities provide hands-on learning opportunities, enabling students to apply classroom knowledge and bring innovative ideas to life.

The academic program thoroughly covers core mechanical engineering areas like statics, dynamics, thermodynamics, fluid mechanics, structural analysis, vibrations, and materials science. It also emphasizes modern topics such as computational fluid dynamics (CFD), finite element methods (FEM), additive manufacturing, laser material processing, automation, energy systems, and Industry 4.0 technologies.

Since launching its B.Tech program in 2016, the department has expanded to include M.Tech and Ph.D. programs, underscoring its commitment to research excellence and innovation.

HIGHLIGHTS:

- Department of Mechanical Engineering is currently (the year 2023-25) dealing with research projects worth Rs. 6 Crore after successful completion of research projects worth Rs. 10 Crore in the past.
- Our research teams have showcased their outcomes in the form of research articles (~40 nos. in the year 2025-26) published in internationally acclaimed journals also through national/international patents.
- Department is also having a very good Industry-academia collaboration for students' internship program, R&D projects and consultancy. Some of the industries associated with the department are Bhilai Steel Plant, Jindal Power Limited Raigarh, Adani Power Limited Raipur etc.
- Faculty members are having research collaboration with various national and international universities. Some of the international universities engaged in collaborative research activities with IIT Bhilai are the University of Coimbra Portugal, Cardiff University UK, University of São Paulo Brazil, University of Nottingham UK, Southeast University China, Lublin University of Technology Poland, University of Alberta Canada, etc.
- Our students/alumnus are working/contributing in the growth of various reputed organizations such as Google, GT Technologies, Larsen & Turbo, IOCL, EIL, etc.



RESEARCH AND DEVELOPMENT

Advanced Manufacturing and Materials Engineering

Advanced PVD coatings for cutting tools, Non-traditional machining, Machining of aero-engine alloys, Material development for enhanced performance - Al, Mg, Ti alloys, Material processing - microstructural engineering, Additive Manufacturing, Numerical modelling of manufacturing processes, Friction stir welding/Processing, Sheet metal forming, Theory of plasticity, Constitutive modelling, Surface Engineering, Tribology, Mechanical Alloying, Powder Metallurgy,

Thermal and Fluid Sciences and Energy Engineering

Emulsification in microchannels, Passive pumps, IC engine, Alternative Fuels, Diesel Emissions and their Control, Thermal Comfort, Building Energy Efficiency, Thermal Energy Storage and Management, Thermofluid Transport of Porous Media, Heat Transfer of Ferrofluids, Bioinspired Textured surfaces – Hydrophobicity and Super hydrophobicity, Colloidal Particles, Self-assembly/Deposit patterns, Biomicrofluidics and Lab-on-Chip,

Structural and Solid Mechanics and Monitoring Systems

Fracture Mechanics, Computational and experimental Solid Mechanics, Structural health monitoring (SHM); NDT, laser ultrasonic wave propagation; Vibro-thermography, AI based SHM; Computer vision; Point clouds etc.





DEPARTMENT OF MATERIALS SCIENCE AND METALLURGICAL ENGINEERING

The Department of Materials Science and Metallurgical Engineering (MSME) at IIT Bhilai is strategically located in the mineral-rich state of Chhattisgarh, near the SAIL-Bhilai Steel Plant. This proximity enables the department to lead technological developments and commercialization, focusing on training students as entrepreneurs with job-ready skills.

The department offers various academic programs, including BTech, BTech (Honors), MTech, and Ph.D., along with opportunities for dual degree programs through conversion. The curriculum is designed to meet current technological standards and future demands, covering essential topics such as steel and alloy making, and advanced materials like electronic materials, smart materials, ceramics, energy materials, and polymers.

Research is a key focus of the MSME department, supported by faculty members who have graduated from and worked at world-class institutions. These faculty members engage in interdisciplinary research with international exposure, establishing state-of-the-art technologies in metallurgical engineering, materials science, polymers, robotics, and micro-/nanorobots.

Collaborations with SAIL-BSP expose students to the latest industrial technologies and processes, enhancing their skills for immediate job opportunities and entrepreneurship.

The MSME department at IIT Bhilai is committed to advancing technological innovations and providing top-tier education and research opportunities, preparing the next generation of engineers and scientists to lead the future of materials science and metallurgical engineering.

HIGHLIGHTS

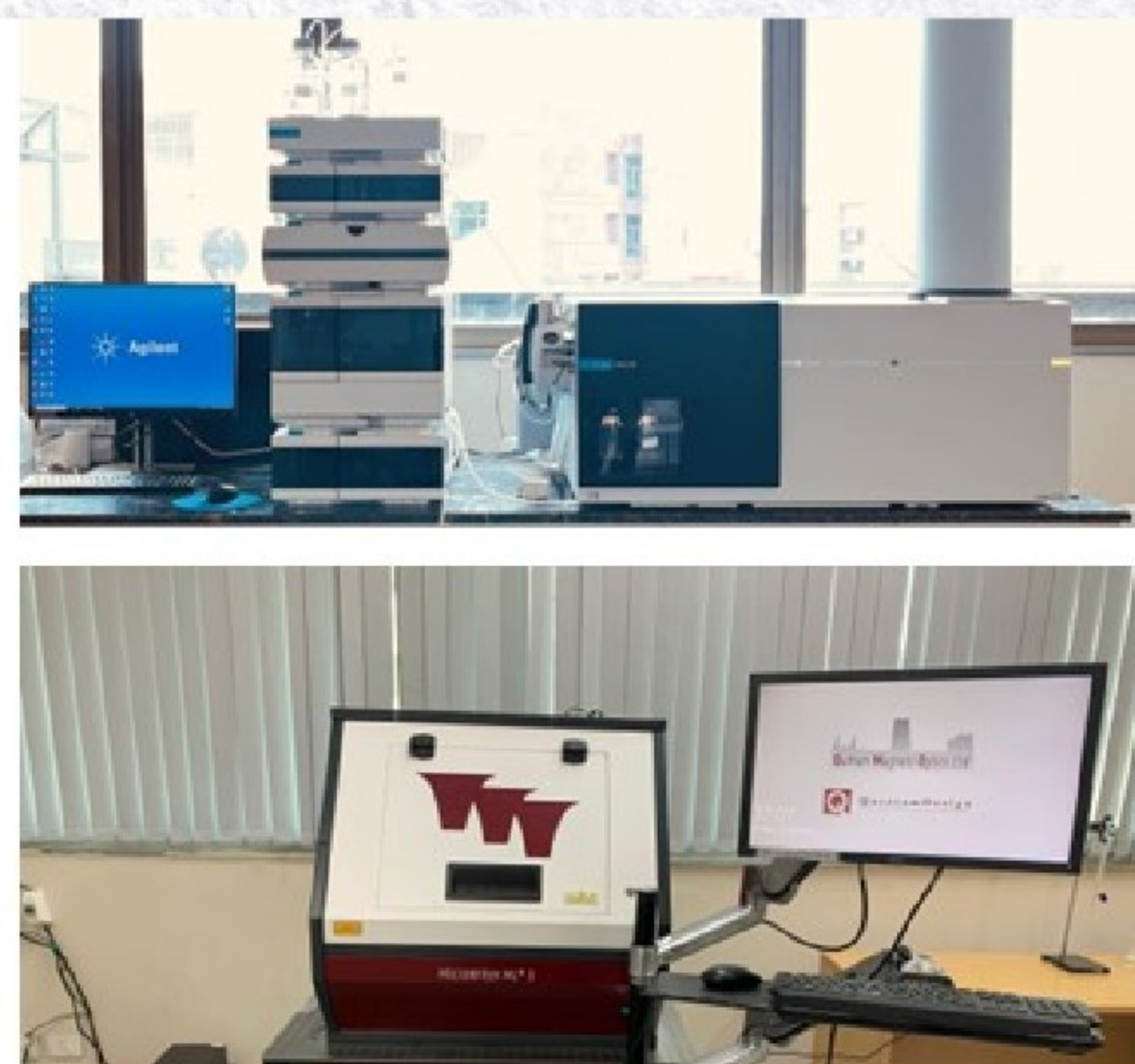
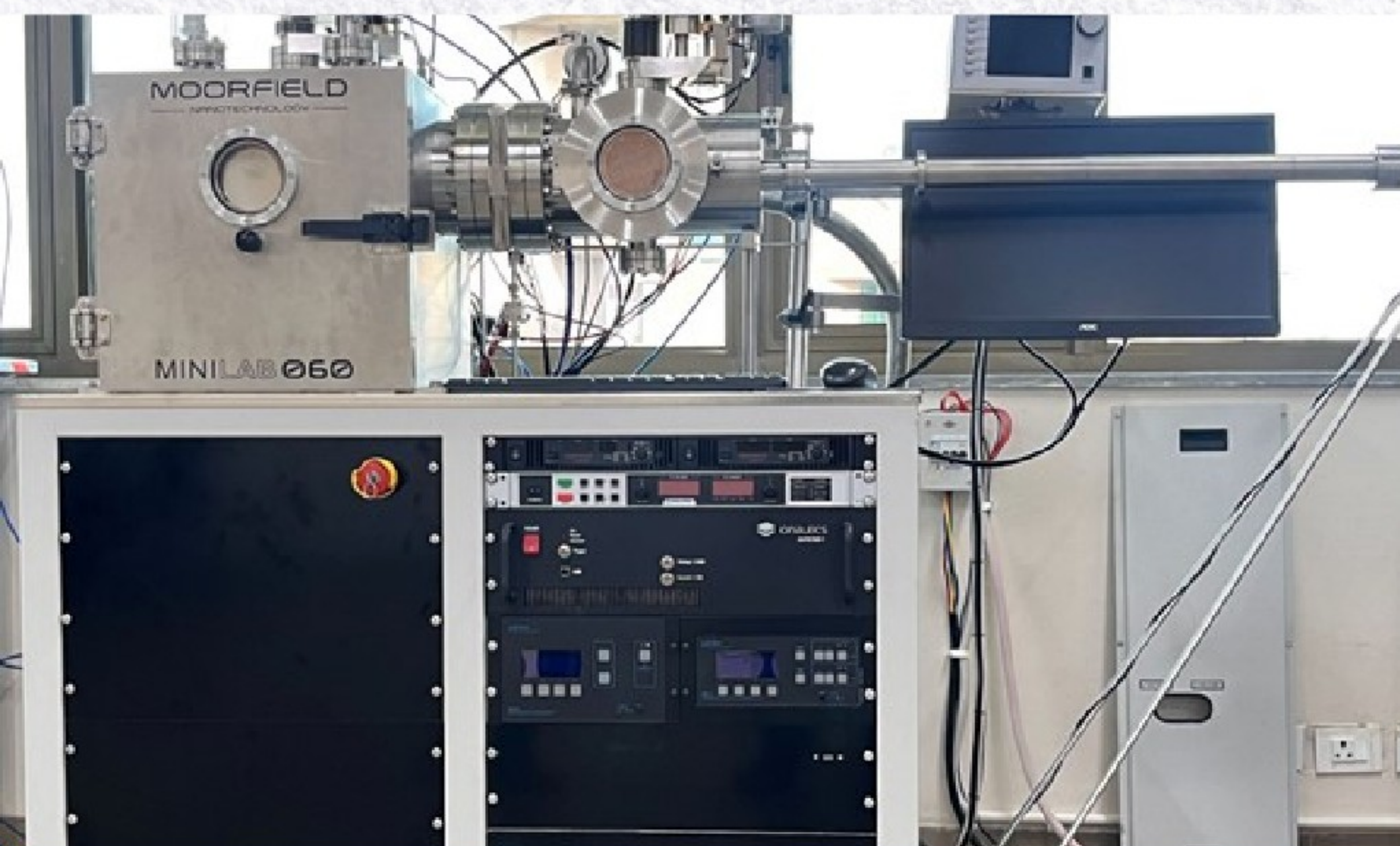
- To foster global competitiveness and access to frontier research, the department actively collaborates with renowned international institutions such as the University of Oxford, Max Planck Institute (Germany), University of Paris Saclay, CNRS, Seoul National University, POSTECH, NIMS Japan, Oak Ridge National Laboratory (USA), and several other leading universities and research centers across Europe, the USA, and Asia.
- Within India, the department maintains strong academic ties with premier institutes including IISc Bengaluru and multiple IITs (Delhi, Bombay, Madras, Roorkee, Indore, Patna, Gandhinagar, Ropar, BHU, Jammu, Bhubaneswar, Kharagpur, and Palakkad), as well as key national research labs like ARCI, DMRL, and IGCAR.
- These collaborations promote joint research initiatives, technology exchange, and enhanced academic and professional development opportunities for students and faculty alike.



FACILITIES

- Vacuum Arc Melting
- I-V measurement Set up
- Electrochemical Workstation
- Handheld XRF Spectrometer
- Muffle Furnace (1300°C)
- Tubular Furnace (1300°C)
- Box Furnace (1100°C)
- Hot Air Oven (300°C)
- Vacuum Oven (250°C)
- Fume Hood
- Planetary Ball Milling
- Low Speed Saw Cutter
- High Speed Precision Cutter
- Spin Coating Unit
- Dip Coating Unit
- Vacuum Tube Sealing Unit
- Hot Mounting Machine
- Stereo Trinocular Microscope
- Metallurgical Optical Microscope
- Brinell Hardness Tester
- Vickers Hardness Tester

- Centrifuge Machine
- Rockwell Hardness Tester
- Vortex Shaker
- PH Meter
- Automatic Hydraulic Press (15 Ton)
- Ultrasonicator
- Magnetic Stirrer & Hotplate
- Semi-Micro Weighing Balance
- Micro Weighing Balance
- Single Disk Polishing Machine
- Double Disk Polisher
- Pin on Disc
- Impact Tester
- Vacuum Slurry Mixture
- Hot Roller Press
- Battery Property Analyzer
- Coin Cell Film Cutter
- Coin Cell Crimping Unit
- Film Coater for Li/Na-ion batteries
- Twin Wet Belt Grinder





DEPARTMENT OF BIOSCIENCE AND BIOMEDICAL ENGINEERING

The Department of Bioscience and Biomedical Engineering (BSBME) at IIT Bhilai is a newly established department dedicated to fostering a rich learning environment and promoting multidisciplinary research. Key research areas include infectious and Alzheimer's diseases, amyloids, aging, autophagy, bioinformatics, tissue engineering, drug delivery, cancer biology, imaging technologies, biosensors, bio-microfluidics, and computational biology.

Our teaching integrates scientific and engineering principles to serve both academic and industrial needs. Faculty members conduct cutting-edge research using advanced facilities and actively collaborate with AIIMS Raipur. In partnership with AIIMS, we offer an M.Tech program in Bioengineering, designed to provide interdisciplinary training and address real-world biomedical challenges.

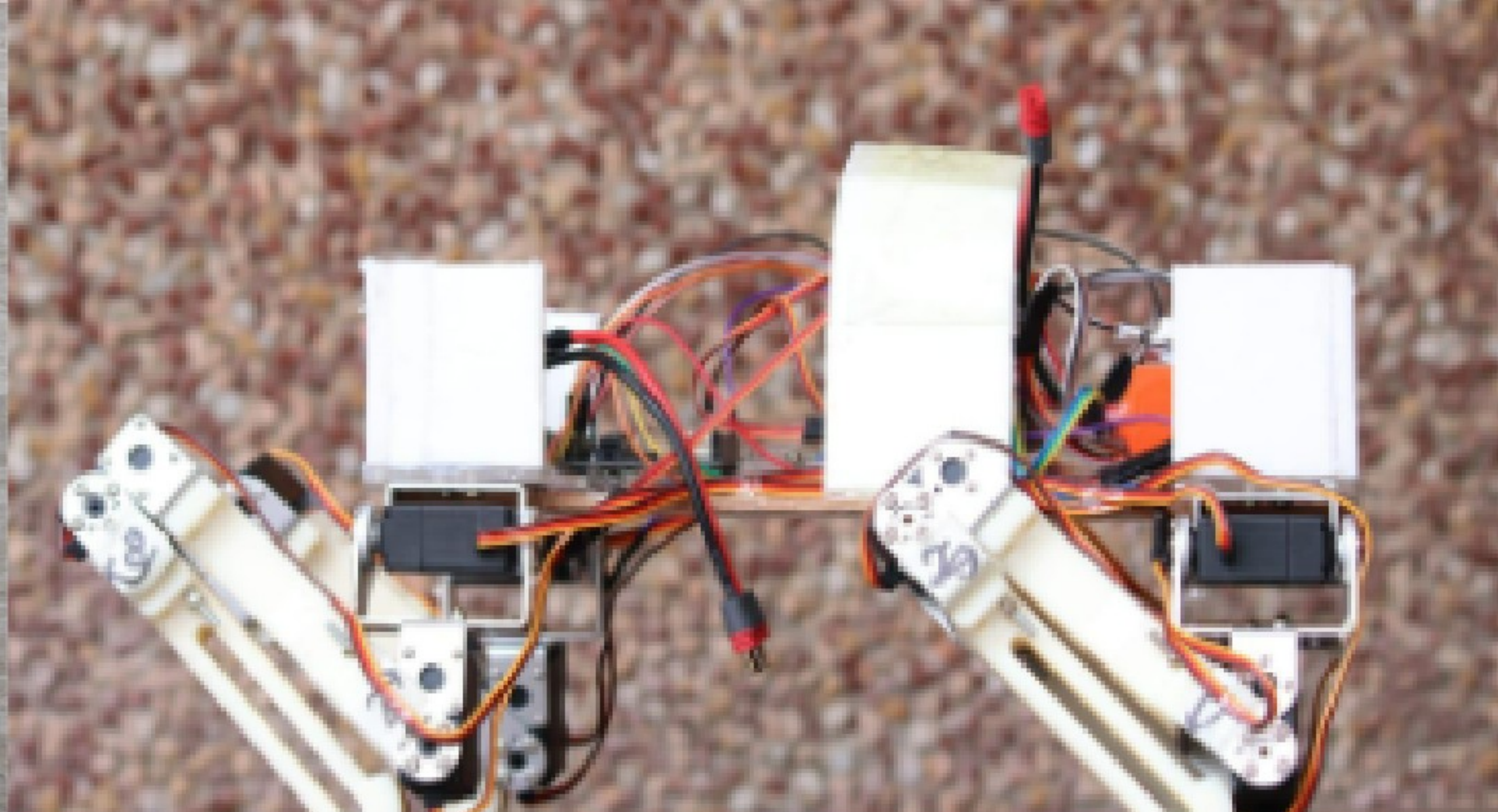
With the healthcare and biomedical device sector growing rapidly, the department aims to develop skilled professionals equipped to meet modern technological demands. Currently, we offer an M.Tech in Bioengineering and a Ph.D. in Bioscience and Biomedical Engineering.

4o

HIGHLIGHTS:

- Dr. Arun Upadhyay has been elevated to Associate Editor Position in Journals: BMC Neuroscience, BMC Biotechnology, and BMC Molecular and Cell Biology.
- Dr. Arun Upadhyay has been invited by The French Institute in India (French Embassy) to participate in a scientific high-level (SSHN 2024) fellowship/visit to Paris City.
- Dr. Arun Upadhyay delivered an oral talk on "Quantitative Proteomics Revealed Novel Protein Components of Amyloid Fibril Core." At International Society for Molecular Neurodegeneration (ISMND) international conference in Seoul, South Korea on May 26th, 2024.
- Department of BSBME, IIT Bhilai hosted a one day seminar on 'Exploring the remedial effects of traditional medicinal plants.'
- All M.Tech. and Ph.D. students participated in a four-day long industry training program at VNR seeds, Raipur.





DEPARTMENT OF MECHATRONICS ENGINEERING

The Department of Mechatronics Engineering at IIT Bhilai, established in 2022, offers BTech, MTech, and Ph.D. programs built on an interdisciplinary curriculum that combines electrical, electronics, data science, and mechanical engineering. Designed by faculty across multiple departments, the program equips students with a versatile skill set for addressing complex technological challenges.

Focused on the integration of electrical, mechanical, and computing systems, the program prepares students to design and develop electromechanical products for industrial applications. Hands-on projects provide practical experience with systems involving electronic control, pneumatics, and hydraulics.

Graduates are equipped for careers in robotics, advanced manufacturing, medical technologies, transportation, R&D, human-machine interaction, and big data analytics. In its first year, the department welcomed 16 BTech, 5 MTech, and 4 Ph.D. students. We are committed to producing engineers who will lead innovation and drive impactful change across industries.

HIGHLIGHTS:

- **Externally Funded Projects:**

The Department of Mechatronics is actively involved in several prestigious externally funded projects. These include two projects funded by MeitY (one completed, one ongoing), and one project each supported

by ISRO, Bhilai Steel Plant, and Radcom Inc., reflecting the department's strong engagement with national research and industry partners.

- **Research Excellence:**

Demonstrating a strong focus on innovation, the department has produced 11 journal publications and 19 conference papers in the past two years. Additionally, faculty members have filed 4 patents, showcasing the department's vibrant research culture and its commitment to advancing technological frontiers.

- **Advanced Laboratory Infrastructure:**

The department hosts state-of-the-art labs, including the Industrial Automation and Smart Manufacturing Lab, UAV Lab, and Robotics Lab. These are equipped with modern tools such as PLC kits, drones (hexacopter and quadcopter), and quadruped robots, providing students with hands-on training in cutting-edge technologies.

- **Multidisciplinary Curriculum:**

By integrating mechanical engineering, electronics, computer science, and control systems, the department offers a multidisciplinary learning experience. This approach empowers students to build intelligent, efficient, and complex machines, aligning their skills with the needs of modern industry.

- **Industry and Research Collaboration:**

The department is continuously building strong ties with industry and research organizations through its funded projects and advanced facilities. These collaborations play a significant role in contributing to national R&D efforts and offer students real-world exposure and opportunities.





DEPARTMENT OF MATHEMATICS

The department started in 2016 to pursue excellence in teaching and high-quality research by developing appropriate curricula and teaching practices. Mathematics brings together all branches of science and technology. It reproduces the spirit of rationality and takes the leading role in shaping the career of an engineering student to meet global challenges. One of our focuses is to produce engineers equipped with modern mathematics tools with a strong understanding of real-world and engineering problems. One of the central visions of our department is to deliver high-quality research and create a healthy environment for research. The faculty members are actively engaged in research in various areas, such as Nonlinear Functional Analysis, Set-valued Fixed Point Theory and its Applications, Quasi-Variational Inequalities, and Equilibrium Problems; Operator Theory, Function Algebra, Cowen Douglas Class Operator and Reproducing Kernel Hilbert Space; Probability Theory, Stochastic Processes and Statistics, Estimation Theory, Applied Probability; Additive Number Theory; Analysis of Partial Differential Equations, Topological Combinatorics, Enumerative Combinatorics, and Combinatorial Geometry. The Master of Science (M.Sc.) program in Mathematics and Computing started in 2019-20. The department offers Ph.D. programs in various research areas of Mathematics.

HIGHLIGHTS:

- Soumyadip Kar (ID No- 11941580), an MSc (Mathematics and Computing) student has joined as a Graduate Student (PhD student) at The State University of New York at Buffalo (Sunny Buffalo) in fall 2024 at the Department of Mathematics.
- Deepak, an M.Sc (Mathematics and Computing) student (Batch 2021-23) got placed in K12 TechnoServices Ltd. during On-campus placement 2022-23. He also qualified for CSIR NET JRF June 2022, and GATE MA 2023. He is currently doing a Ph.D. Mathematics from IIT Indore.
- Jyoti Rani, a Ph.D. Scholar received the Chhattisgarh Young Scientist Award 2024 for her research on "Spectral Properties of Infinite Band Matrices" at the 19th Chhattisgarh Young Scientist Congress, jointly organized by NIT Raipur and the Chhattisgarh Council of Science and Technology.
- Mostafizar Khandakar completed his PhD in February 2022, served as a postdoctoral fellow at IIT Bombay (March 2022 to August 2023), and is now an Assistant Professor at IIIT Guwahati since August 2023.
- Manisha, a PhD Scholar, was awarded the Prime Minister's Research Fellowship in October 2023. She also won the best presentation award for her paper on "On the superposition and thinning of generalized counting processes" at a national conference at the Central University of Odisha in April 2024.





DEPARTMENT OF CHEMISTRY

The Department of Chemistry, established in 2016, has been steadily progressing each day. Today, we operate in a well-resourced environment. The department is dedicated to high-quality research and excellence in teaching, offering core courses and electives for B.Tech. and M.Tech. engineering students, a two-year M.Sc. program, and a Ph.D. program in Chemistry.

Our team consists of eleven highly qualified faculty members, trained at renowned institutions both in India and abroad, who are tirelessly working to advance the department and secure the future of our students. We have produced Six (6) Ph. D.s and seventeen (17) Master's graduates. Currently, Thirty-four (34) Ph.D. and Nineteen(19) M.Sc. students are getting benefit from the extensive knowledge of our faculty and our well-equipped laboratories.

The department's major research areas include inorganic and organometallic chemistry, polymer chemistry, halide perovskite solar cells, bionanotechnology, photoactive metal-organic hybrid materials, theoretical and computational chemistry, total synthesis and antibiotics, molecular dynamics simulations, and bioinformatics.

HIGHLIGHTS:

- Our instrumentation facilities include FTIR, NMR, ICP-OES, UV-visible spectrophotometers, DLC, GPC, HPLC, polarimeter, and stereo zoom microscopes, among others, to support our students' research needs.
- Our faculty members attract substantial financial support from government and private agencies for their research. Many have received awards for their research excellence. They are also active in organizing scientific meetings and workshops and are frequently invited to speak at national and international conferences. Our students are also earning awards and accolades for their work.
- Eminent researchers from India and Germany deliberated in the IGSTC-supported workshop on "Recent Advances on Harnessing Green Hydrogen and Allied Areas.", jointly organized by IIT Bhilai and TU Berlin. The workshop was coordinated by Dr. Sanjib Banerjee, Department of Chemistry, IIT Bhilai, and Dr. Prashanth W. Menezes, Group Head of Energy Catalysis, TU Berlin from November 22-24,2023.
- A workshop on 'Advances in Bioinorganic Chemistry' held on 5-6 April 2024. (RMM)





DEPARTMENT OF PHYSICS

The Department of Physics at the Indian Institute of Technology (IIT) Bhilai, established in 2016, has rapidly gained recognition on both national and international levels. Despite its relatively recent inception, the department has become a hub for cutting-edge research and innovation in the physical sciences. The department's research activities span a broad spectrum of areas, including condensed matter theory and experiment, soft matter, high energy physics, nuclear physics, cosmology, and astrophysics. This diverse research portfolio is supported by numerous funded projects, reflecting the department's robust engagement with contemporary scientific challenges.

The faculty members at IIT Bhilai's Department of Physics are not only engaged in pioneering research but also actively contribute to the academic community by organizing seminars that feature esteemed external scientists. This facilitates a dynamic exchange of ideas and fosters collaboration. The department's commitment to excellence is evident in its state-of-the-art undergraduate and postgraduate programs, which are meticulously designed and led by a team of ambitious young faculty members.

The Department of Physics at IIT Bhilai is dedicated to training the next generation of physicists through rigorous coursework, seminars, advanced experimental facilities, and personalized mentorship from renowned faculty.

Its strong research culture is reflected in national awards and international collaborations, establishing the department as a leading center for physics research and education. With a commitment to academic excellence, it continues to make impactful contributions to the physical sciences.

HIGHLIGHTS:

- Srkanta Debata joined as a postdoctoral fellowship at the University of Delaware, USA.
- Our graduating MSc students will be joining PhD at IIT Ropar, IIT Kanpur, IISER Bhopal. MSc student Mr. Rajsekhar Sarma joined Ohio University, USA while Mr. Ninad Khobrekar is doing his PhD in University of Tartu, Estonia. Both of these secured their PhD fellowship.
- Our MSc students have chosen teaching as a profession and inspiring the future generation from various institutions and universities.
- Notably, our MSc students have demonstrated significant potential for success in industry. For instance, Mr. Prajjwal Kohli is currently working as a Software Development Engineer (SDE) intern at CarInfo.



DEPARTMENT OF LIBERAL ARTS

The liberal arts trace their roots to studia humanitatis, which emerged toward the end of the medieval era in Europe, marking a shift from ecclesiastical to secular scholarship in the pursuit of knowledge and truth. The Enlightenment further advanced this shift by promoting scientific temper and method, leading to the development of the social and natural sciences. Over time, the rise of disciplinary specialization, industrialization, and global politics led to a more defined separation between the humanities and sciences – though this divide is more about academic structure than fundamental purpose.

In this context, the distinction between arts and sciences is largely a matter of perspective. IITs, often seen as hubs of technological education, are uniquely positioned to foster liberal arts scholarship. Their commitment to scientific inquiry and societal relevance creates fertile ground for exploring complex social systems. The national and international standing of IITs enables research to influence not just academia, but also policy and governance, thus reinforcing the connection between knowledge and societal impact.

The Department of Liberal Arts at IIT Bhilai was founded with this interdisciplinary vision, focusing on three core areas: Economics, Literature, and Psychology. Our faculty and researchers explore topics ranging from developmental economics and memory studies to positive psychology. We offer a range of electives for undergraduates and a doctoral program that anchors our academic mission.

Through regular lectures, workshops, and conferences, we have cultivated a dynamic scholarly culture that is both globally informed and locally reflective.

HIGHLIGHTS:

- Ms. Deepnrita Dey, a PhD scholar in English Literature, received a Conference Grant to attend an international conference (ICAS 13) organized by the International Institute for Asian Studies and Airlangga Institute of Indian Ocean Crossroads to be held in Indonesia between 28 July to 01 August 2024.
- Ms. Monika Srivastava, a PhD scholar in Psychology, has been selected to present her work on "Death anxiety among nurses: Role of character strengths and work engagement" at the 33rd International Congress of Psychology organized in Prague, Czech Republic between 21-07-24 to 26-07-24.
- Dr. Anindita Ghosh, Assistant Professor of Psychology was awarded "Excellence in Academics" by the Indian Institute of Technology Hyderabad Alumni Awards, in 2021.
- The department organized international conferences like "Experiencing Home" and "Narrating the South Asian City," workshops on "South Asian Water Imaginaries," and a national conference on "Women's voices and the Indian freedom struggle."







LABS



Automation Systems Lab

Students at IIT Bhilai receive comprehensive training in various automation technologies commonly used in industries, including Programmable Logic Controllers (PLCs) for control and robot manipulators for pick-and-place operations. The Automation Systems Lab offers hands-on training with sensors, motors, switches, relays, and other essential components for developing automation systems. Additionally, the lab is equipped with various industrial robots, providing students with practical experience in robotics, and preparing them for advanced roles in automation and robotics industries.

Chemistry Lab

The chemistry labs at IIT Bhilai provide hands-on experience with key chemical concepts and safety practices. They feature modern instruments like vortex mixers and rotary evaporators, along with fume extractors for air purity. The labs support inorganic and organic synthesis, analytical methods, and physio-chemical experiments, fostering a creative teaching and research environment. Advanced facilities for computational chemistry and bioinformatics, including access to the PARAM Shavak HPC facility and high-speed internet, enhance research capabilities.



Digital Fabrication Lab

The Digital Fabrication Lab at IIT Bhilai caters to the rapid prototyping needs of various projects by enabling students to create plastic parts. It offers training in solid modeling and 3D printing and is accessible to students from all branches. Recognizing that the future of the manufacturing industry lies in additive manufacturing, IIT Bhilai established this lab to expose students to cutting-edge, next-generation manufacturing technologies.

DIY Training Lab

At IIT Bhilai, students gain practical experience operating lathe, milling, and drilling machines, as well as engaging in casting. Emphasizing both safety and learning, training is conducted in non-traditional workshops using tabletop machinery and cold-casting techniques. The DIY Lab encourages students to build prototypes, providing hands-on training with various equipment. It features laser cutting machines for cutting and engraving, and tabletop precision CNC machines for operations such as milling, turning, drilling, and boring. All undergraduate students at the institute undergo training in the DIY Lab to develop their practical skills.



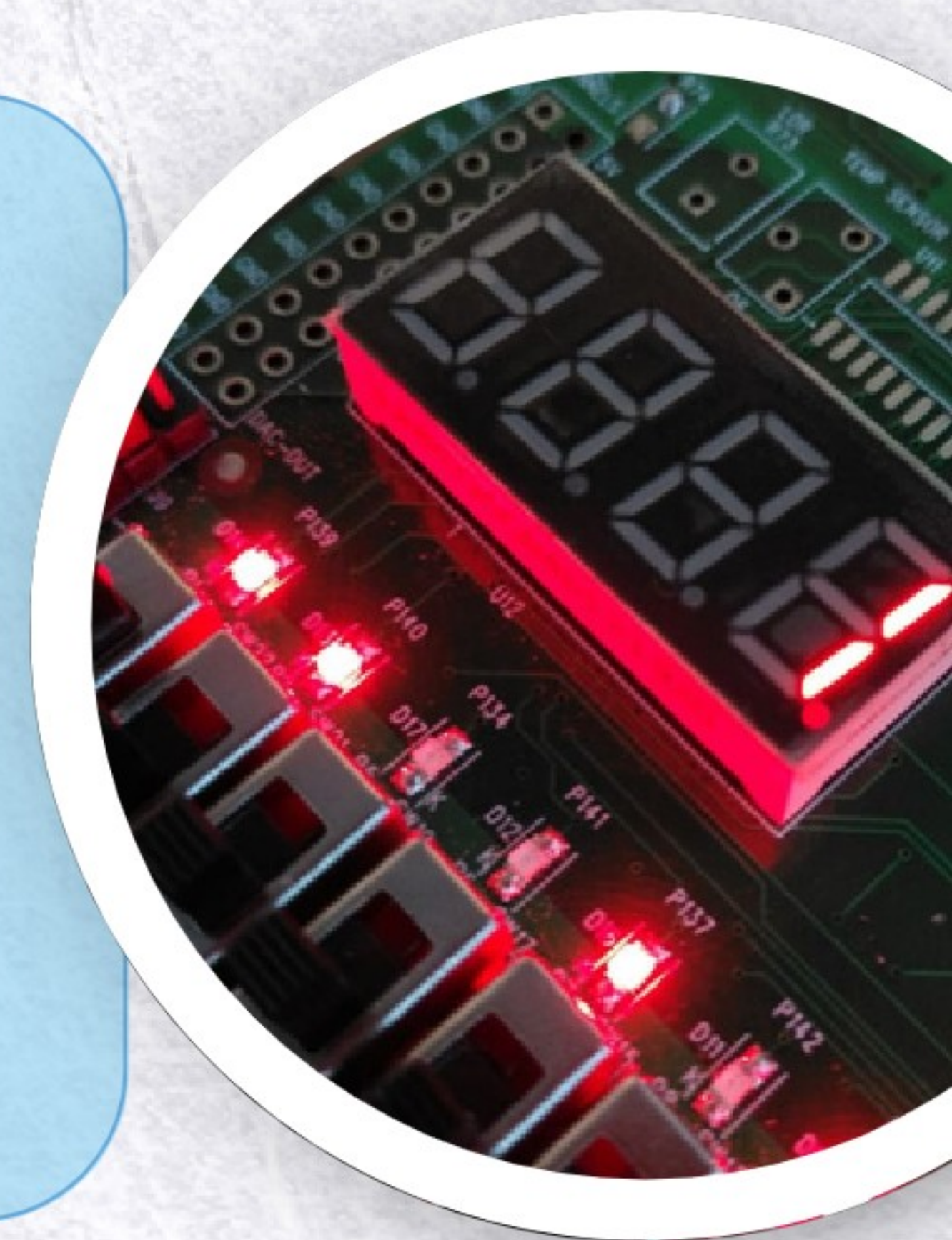
Electrical Engineering Lab

The Electrical lab at IIT Bhilai is equipped with state-of-the-art equipment featuring remote monitoring and control capabilities for every test and measurement from each worktable. Designed to support out-of-the-box thinkers, the lab provides extensive resources and facilities. Its project-based learning approach enhances students' problem-solving skills, making them technically competent and industry-ready. Ultimately, the lab addresses the ever-changing and challenging needs of the industry, preparing students to meet contemporary demands effectively.



FPGA Lab

FPGAs are digital circuits programmable by users for a wide variety of industrial and research applications, including aerospace, defense, automotive, consumer electronics, communications, industrial automation, and image and video processing. At IIT Bhilai, all first-year students are introduced to FPGAs and digital hardware design concepts through the Applied Digital Logic Design course. This course and its accompanying lab are structured to encourage the use of the latest digital hardware design tools across various disciplines. The lab is equipped with state-of-the-art FPGA boards, supporting both teaching and project-based research work.





Physics Lab

The Physics Lab at IIT Bhilai serves students at both undergraduate and postgraduate levels. The lab courses are designed to spark curiosity through experiments fundamental to understanding the laws of nature and the basic principles of modern electronics. It provides a hands-on environment where students can perform real-time experiments on topics they have learned. The lab is dynamic, continuously updating with new experiments to stay relevant with evolving scientific and technological advancements.

Computer Labs

The Information Technology and Infrastructure Services (ITIS) at IIT Bhilai provide computer lab facilities to support student learning and research. Our two computer labs house a total of 145 desktop machines, offering both Windows and Linux platforms along with a variety of application software. These labs enable undergraduate and postgraduate students to gain versatile knowledge and can be used for various purposes, including course labs, assignments and projects, workshops, academic exams, and placement exams.



Electrical Technology Lab (ElTec Lab)

This lab serves as the cornerstone for fundamental electrical engineering experiments, providing students with hands-on experience in circuit design, analysis, and testing.

Drives, Renewable Energy, and Electrical Machines Lab (DREEM Lab)

The DREEM Lab focuses on the study and application of electric drives, renewable energy sources, and electrical machines, facilitating research and practical learning in these critical areas. The DREEM Lab focuses on the study and application of electric drives, renewable energy sources, and electrical machines, facilitating research and practical learning in these critical areas.



Sensors, Instrumentation, and Device Lab (SID Labs)

The SID Lab is dedicated to the development and testing of sensors and instrumentation devices, supporting research in measurement technologies and device engineering.



Power and Control Lab (PoCo Lab)

This lab emphasizes the study of power systems and control engineering, offering students the tools and environment to explore advanced concepts in power distribution, system stability, and control mechanisms.



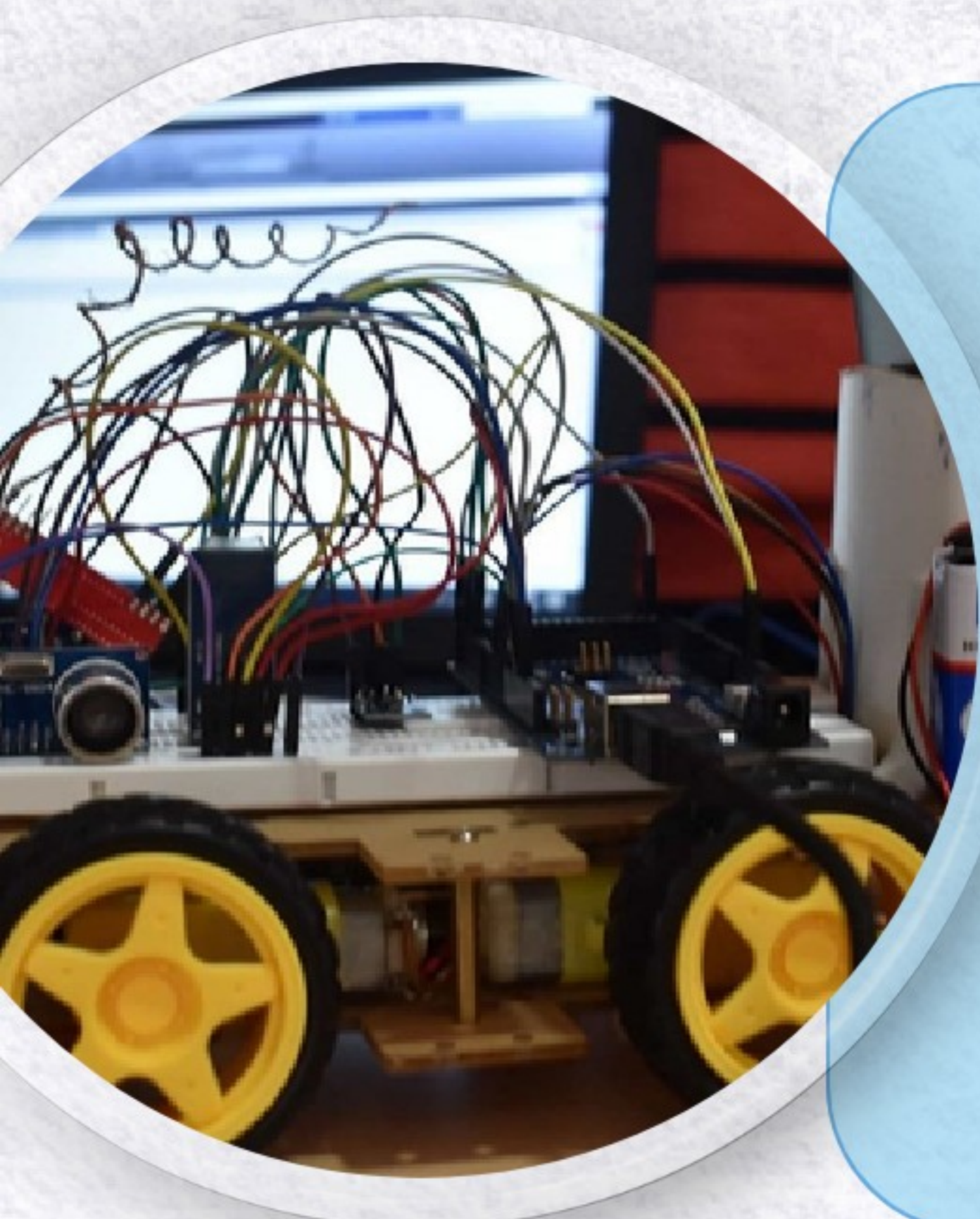


Metallographic Testing Lab

Consists of a universal testing machine (100kN), and a digital image correlation setup. Here students can gain hands-on experience on material behaviour with the application of load. They will learn methods to evaluate stress-strain relationships, fatigue properties, etc. Inverted Microscope, Stereo zoom Microscope, Scratch Tester, Servo-Hydraulic UTM, Diffused light polariscope, Digital Image Correlation.

Thermal and Fluid Lab

The Thermal and Fluid Engineering Lab provides fundamental equipment for demonstrating pipe losses, flow regimes, and different modes of heat transfer. Students also gain practical exposure to flow measuring devices, Pelton wheels, hydraulic systems, refrigeration cycles, and heat exchangers. Major Equipment include Parallel & Counter Flow Heat Exchanger, Stefan Boltzmann Apparatus, Heat Pipe, Pin Fin Apparatus, Emissivity Apparatus, Composite Wall Apparatus, Major & Minor Losses in Pipes, Flow Measurement Devices, Hydraulic Trainer, Pelton Turbine, Reynolds Apparatus, RAC Test Rig, Contact Angle Measurement System, High-Speed Camera, IR Camera, Inverted Optical Microscope, Transient Dynamometer with Twin-Cylinder CRDI CI Engine



Mechatronics Lab

In this lab, we leverage artificial intelligence in autonomous vehicles and robotics to drive innovation and efficiency. We design and implement advanced robotic control systems and create wearable devices for medical applications to enhance patient care. Our work includes developing next-generation additive manufacturing (3D Printing) systems and advanced prosthetics for amputees. We employ data-driven modeling of materials and apply AI for medical diagnostics to improve early detection and treatment. Additionally, we integrate mechatronics for a sustainable environment, aligning technology with ecological goals.

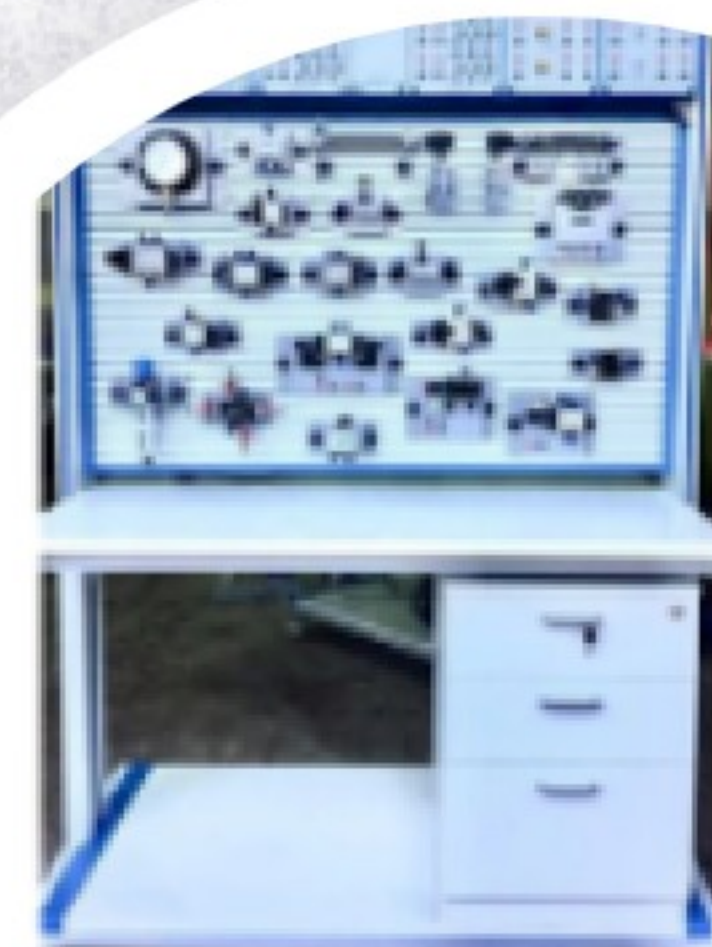


Unmanned Systems Lab (USL)

The Unmanned Systems Lab focuses on the design, control, and guidance of unmanned vehicles, with a primary emphasis on aerial and ground platforms. On the design front, the lab explores novel vehicle configurations to enhance operational performance metrics such as endurance, range, agility, and compactness, or to enable additional in-mission capabilities like perching, object retrieval, and task adaptability. In the area of control, the lab develops methods to ensure that vehicles accurately track desired attitudes or positions as commanded by high-level guidance algorithms. The guidance research centers on geometric guidance laws, which are computationally efficient and rely on minimal information, while still enabling effective trajectory generation and following. The lab actively engages in both simulation-driven studies and real-world experimental validations, bridging theory with practical implementation.

Industrial Automation & Smart Manufacturing Lab

The Industrial Automation & Smart Manufacturing Lab offers hands-on training in cutting-edge automation technologies, preparing students with competencies aligned to Industry 4.0 standards. The curriculum covers key areas including hydraulics, pneumatics, electro-pneumatics, programmable logic controllers (PLCs), motion control, and industrial control systems. Students gain practical exposure through simulation environments and deployment on industrial-grade hardware platforms. The lab also supports the design and development of smart manufacturing solutions, with a focus on Industrial Internet of Things (IIoT) integration, data-driven analytics models, and advanced automation systems to build future-ready skillsets. Equipment available: Pneumatic & Electro Pneumatic Kit, Siemens and Allen Bradley PLC, TIA-Portal, Automation Studio, IO-Link, Industrial grade sensors



PN & EPN kit (2 No's)



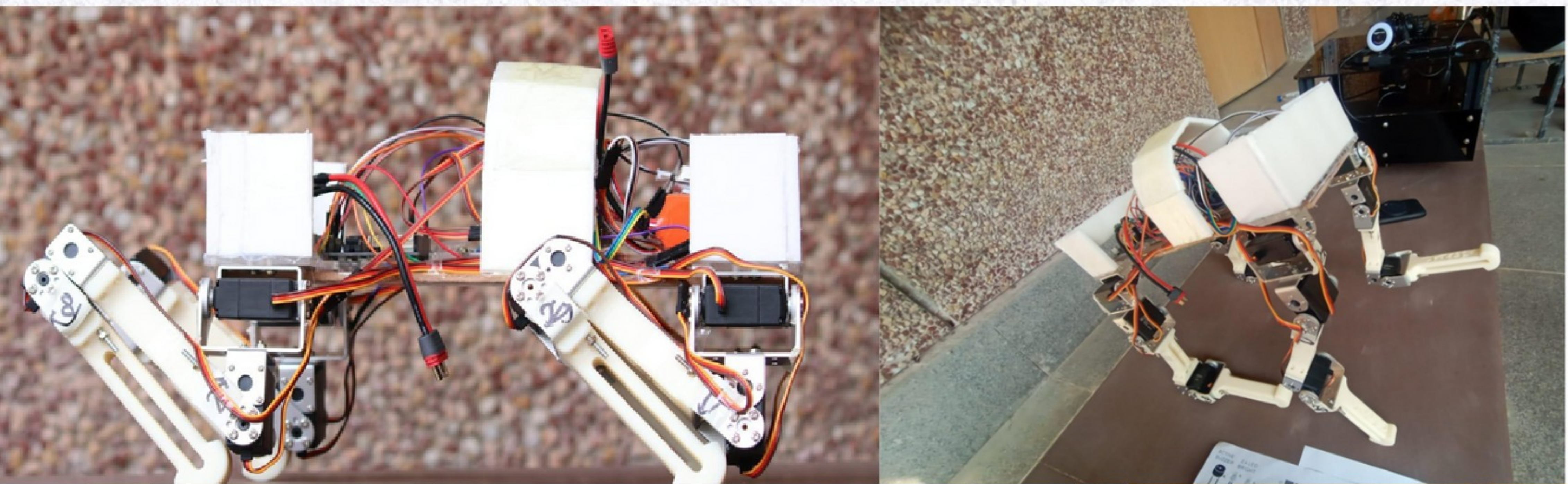
Robotics Laboratory

The Robotics Lab focuses on the study and operation of various robotic systems, including serial manipulators, parallel manipulators, wheeled robots, and legged robots. The lab supports a range of experiments, such as kinematic and dynamic modeling of robotic manipulators, path planning for wheeled robots, operation and control of parallel manipulators, and gait planning for quadruped robots.

Equipment available: 6-dof robotic arm, delta robot, wheeled robot, quadruped robot, sensors (LiDAR, depth camera, IMUs, etc), microcontrollers, and single board computers (Raspberry-pi and NVIDIA Jetson nano).

Workshop

Mechanical engineering students will be introduced to industrial-type CNC-turning and milling machines, learning to perform complex machining operations through code development. The workshop also includes a micromachining center, welding setup, and wire-cut electro-discharge machine (EDM), a nonconventional machining process where the tool does not touch the workpiece to remove excess material. Major Equipment include CNC Horizontal, Turning Centre, CNC Vertical Machining Centre, CNC Wire Cut EDM, High-Speed, Micro Machining Centre, Metal Inert Gas Welding Machine, Friction Stir Welding Machine, Pillar Drilling Machine (1HP), Manual Arc Welding Machine



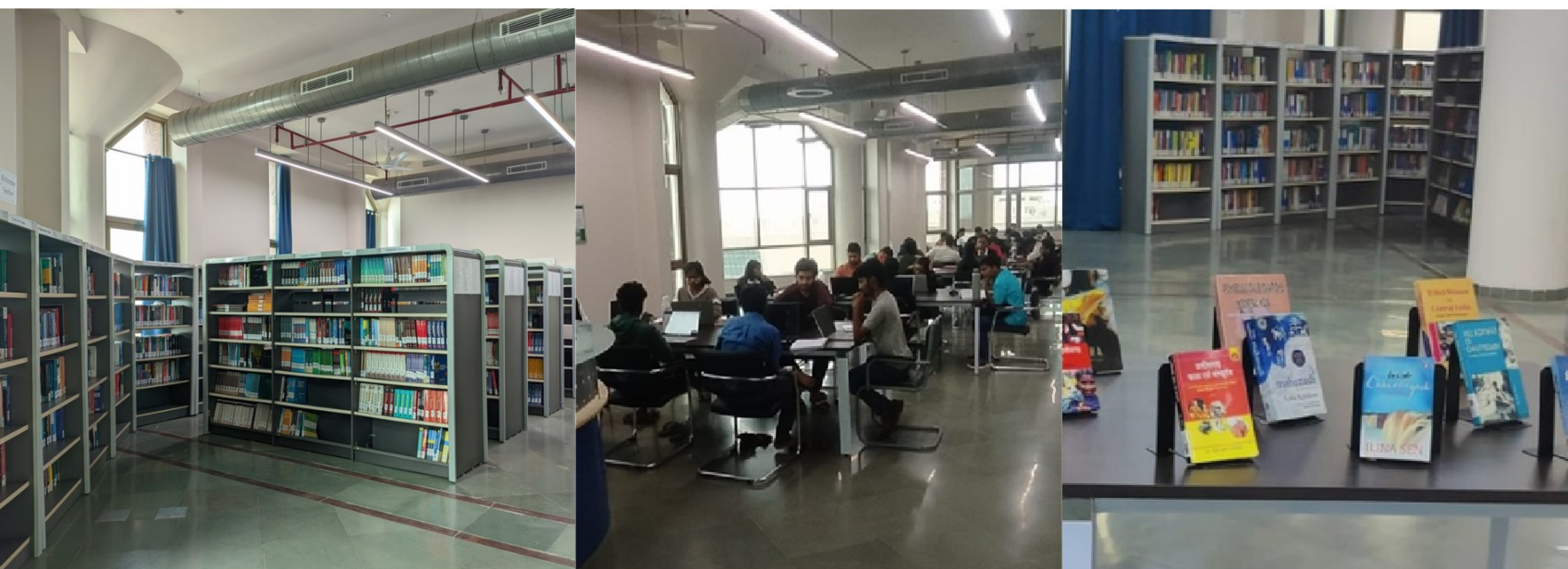
LIBRARY

Established in 2016 alongside the institute, the Central Library of IIT Bhilai has grown into a pivotal resource supporting the academic endeavors of its diverse community. It caters comprehensively to the needs of undergraduates, postgraduates, research scholars, faculty, and staff across all departments. The library houses a modern collection comprising printed materials and electronic resources such as CD-ROMs, DVD-ROMs, online databases, books, journals, magazines, and reports.

With a collection of over 5700 books, the library also provides access to scholastic e-resources from renowned platforms including IEEE Explore, SciFinder, AMS, APS, JSTOR, ASME, ACS, Wiley Journals, Emerald Insight, ACM Digital Library, and more. It subscribes to newspapers and magazines, enhancing its utility as a comprehensive information hub.

For efficient management, the library utilizes the KOHA open-source software for book circulation and employs an OPAC-based system to facilitate seamless access to its resources. Moreover, IIT Bhilai is a life member of the Current Science Association and a member of the e-Sodhsindhu consortium, further enriching its offerings with access to current research and digital resources through INFLIBNET.

Continuously adapting to technological advancements, the Central Library remains integral to the academic and research pursuits at IIT Bhilai, fostering a conducive environment for learning and innovation.



ACHIEVEMENTS



1

Secured Gold Medals at national level competitions like Inter IIT, Smart India Hackathon, and runners-up in the Google Cloud Hackathon.

2

M.Tech students have gained experience at leading organizations such as HP, Deloitte, Accenture, Infosys, and many more.

3

Students interned at prestigious companies including Google, Microsoft, ISRO, PayPal, Visa, PWC India, TCS Research, Jindal Steels, Vardhan Consulting Engineers, and Banaras Locomotive Works.

4

The institute secured a top 5 position and received the Best Bot Design award at the International Micromouse competition held at IIT Bombay, showcasing advanced skills in robotics and engineering

5

The 'lemon' team achieved 40th place in the ICPC Pune-Gwalior region, outperforming teams from leading IITs and highlighting exceptional programming and problem-solving abilities

6

IIT Bhilai won first prize at the ELCTROBLITZ competition at IIIT Raipur, reflecting innovation and technical expertise in electronics

7

At the Inter IIT Tech Meet 2022-23, the institute won the Gold Medal in the Cognitive Garage challenge, underlining excellence in innovation and collaboration

8

The institute achieved its third consecutive victory in the Smart India Hackathon Software Edition, emphasizing consistent innovation and problem-solving skills at the national level

9

Over 15 selections for Google Summer of Code from 2021 to 2025, with 4 from the 2025 batch.





STUDENT LIFE

CLUBS AND SOCIETIES



Blockchain IIT Bhilai (BIB)

The Blockchain Society explores and advances blockchain technology through hands-on projects, workshops, and hackathons. Members develop real-world applications like OnChain Radio and DeFi platforms, gaining invaluable experience. Alumni excel in prestigious organizations, showcasing the rigorous training and exposure provided by the society.



The Data Science and Artificial Intelligence Club

The DSAI Club at IIT Bhilai accelerates learning through cutting-edge workshops, hackathons, and real-world projects. By bridging theory and practice, the club transforms students into innovative problem-solvers, preparing them to tackle challenges in tomorrow's AI-driven world and equipping them with the skills needed for a successful career in technology.



Electromos

Electromos fosters passion and curiosity in electronics, offering a platform to explore IoT, sensors, digital IC design, simulations, and signal processing. Members bring ideas to life through hands-on learning and innovation, contributing to the dynamic field of electronics and shaping the future of technology with their enthusiasm and creativity.



Epsilon: The Robotics Club

Epsilon, the pioneering robotics club of IIT Bhilai, fosters a culture of robotics through projects ranging from IoT implementations to autonomous robots. The club addresses real-world challenges with practical solutions, preparing alumni to excel in prestigious organizations and demonstrating Epsilon's commitment to excellence in robotics education and innovation.



Google Developer Student Club (GDSC - IIT Bhilai)

GDSC is a university program initiated by Google Developers to train thousands of student developers globally, empowering them to collaborate with their communities to solve real-life problems. GDSC IIT Bhilai was established to bridge the gap between students' eagerness to learn and the rapidly evolving technology landscape.



Ingenuity: The Competitive Programming Club

Ingenuity intertwines innovation with algorithmic brilliance, cultivating problem-solving and intellectual curiosity. The club offers exhilarating coding contests and dynamic collaborative learning, creating a community of passionate enthusiasts who sharpen their problem-solving prowess and algorithmic acumen through continuous engagement and challenge.



Optica

OPTICA is the world's leading society for optics and photonics, uniting scientists, engineers and educators to foster and promote technical and professional development. OPTICA Student Chapter at IIT Bhilai is managed for and by the students to promote and conduct awareness and learning activities in optics. It conducts workshops on optics with guest lectures by eminent scientists working in optics depicting various opportunities to propel a career in optics and photonics.

CLUBS AND SOCIETIES



Motorsports IIT Bhilai

Official student racing team of IIT Bhilai consisting of around 30 students from various engineering departments passionate about designing and manufacturing an all-terrain vehicle. The team was formed in 2016 by a group of students from the Mechanical Engineering department. Since then we are participating in national-level competitions such as BAJA SAE and Enduro Student India.



OpenLake: The Open-Source Club

OpenLake fosters a collaborative and innovative community for exploring, contributing to, and learning from open-source projects. The club promotes open-source development through hackathons, workshops, and impactful projects. It encourages creativity, collaboration, and continuous learning, providing a platform for all skill levels to enhance their abilities.



Space Exploration Society (SES)

SES offers a forum for observational astronomy, astrophysics, and aerospace engineering. Activities include telescopic meetings, group discussions, VR simulations, and projects like RC planes and drones. SES provides a comprehensive experience in astronomical and aeromodelling pursuits, fostering a deep appreciation for these fields.



Beathackers: The Dance Club

Beathackers fosters diverse dance styles, from hip-hop and freestyle to classical and cultural dances. The club offers workshops and practice sessions, encouraging creativity and teamwork. Members showcase their talents at college events, intercollegiate competitions, and annual shows, providing a dynamic platform for students to learn, grow, and perform in various dance forms.



Swara: The Music Club

Swara is a vibrant hub for music enthusiasts, offering space for vocalists, instrumentalists, and music lovers to explore genres and hone skills. The club organizes jam sessions, workshops, and performances, encouraging both solo and group acts. By fostering a culture of music at the college, Swara inspires creativity, learning, and the joy of musical expression.



Drishya: The Dramatics Club

Drishya is a creative community for aspiring actors, directors, writers, and stage crew. It offers acting workshops, scriptwriting sessions, and stagecraft training. The club stages various productions throughout the academic year, ranging from classic plays to original student-written works, fostering teamwork, creativity, and a deep appreciation for the performing arts.



CLUBS AND SOCIETIES



DesignX: The Graphic Designing Club

DesignX is a vibrant community for visual arts enthusiasts, providing a platform to enhance graphic design skills. The club offers workshops and hands-on activities, exploring various design tools and software. Members develop portfolios, collaborate on exciting projects, and contribute to college events and publications, turning imaginative ideas into stunning visual creations.



Quizzotica: The Quizzing Club

Quizzotica is an intellectual hub for trivia enthusiasts, fostering a culture of curiosity and learning. The club offers regular quiz sessions, competitions, and inter-collegiate quiz fests. It houses members knowledgeable in diverse subjects, including history, science, literature, and pop culture, sharpening critical thinking and teamwork skills through the thrill of friendly competition.



Renaissance: The Fine Arts Club

Renaissance is a vibrant community for visual arts enthusiasts, offering a platform to develop skills and explore artistic techniques and styles. The club provides a supportive environment for beginners and experienced artists to share their work, gain feedback, and collaborate on creative projects, enriching the college's cultural fabric and inspiring creativity among members.



The Pixel Snappers: Photography club

The Pixel Snappers is for photography enthusiasts of all skill levels. The club offers workshops, photo contests, and collaborative projects, encouraging creativity and skill development in various genres like portrait, landscape, street, and macro photography. Members share their work and document college life in a supportive community.



General Oratory And Literary Society (GOALS)

GOALS is a platform for students passionate about public speaking, writing, and literary exploration. The society hosts debates, discussions, and writing workshops, promoting critical thinking and communication. Members participate in intercollegiate competitions, publish works, and engage in intellectual discussions, refining their talents and confidently expressing ideas.



Film Production Society (FPS)

FPS is a community for filmmaking enthusiasts, offering experience in scriptwriting, directing, cinematography, editing, and sound design. The society provides hands-on workshops, film screenings, and collaborative projects. Members gain practical skills and knowledge, producing short films and experimental projects that premiere at campus events, and building impressive portfolios.



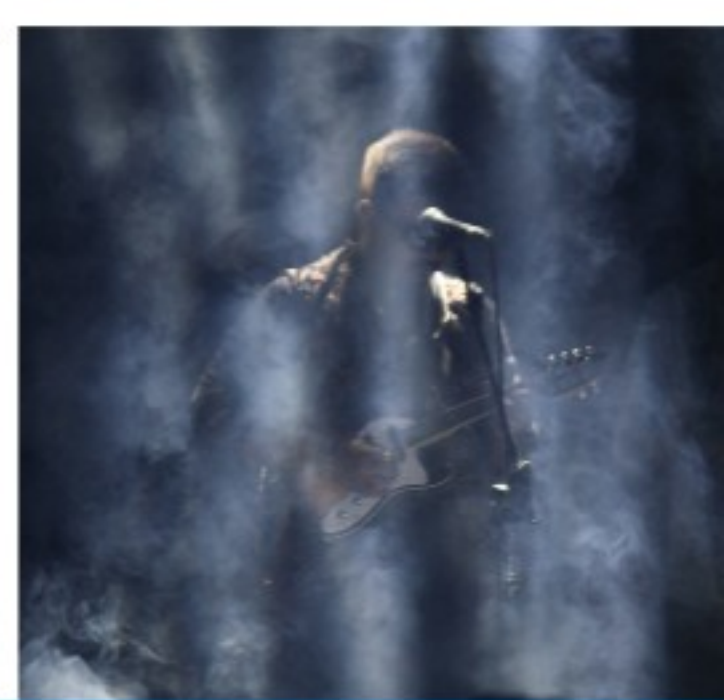
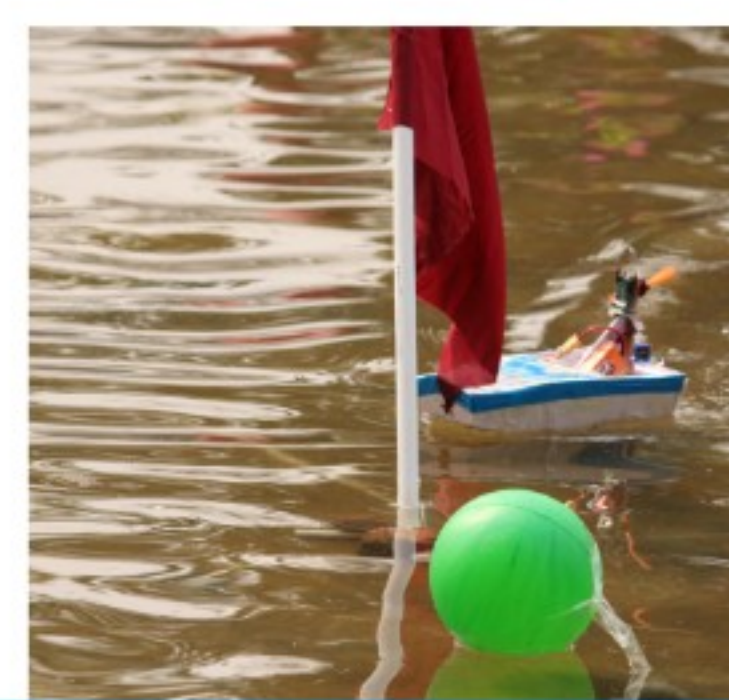
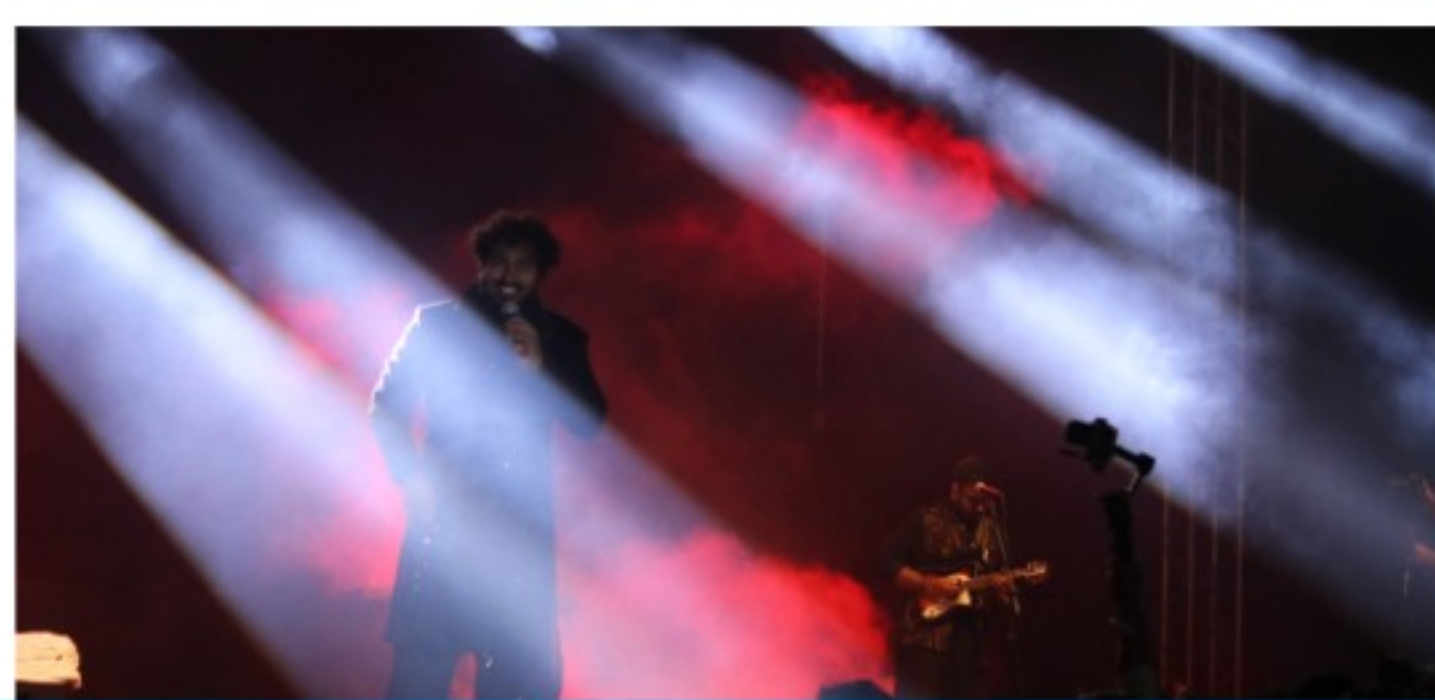
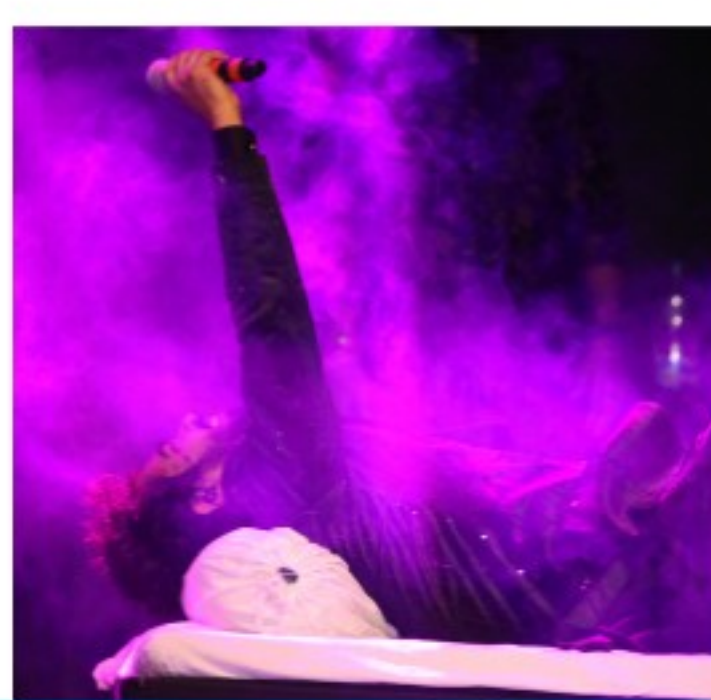
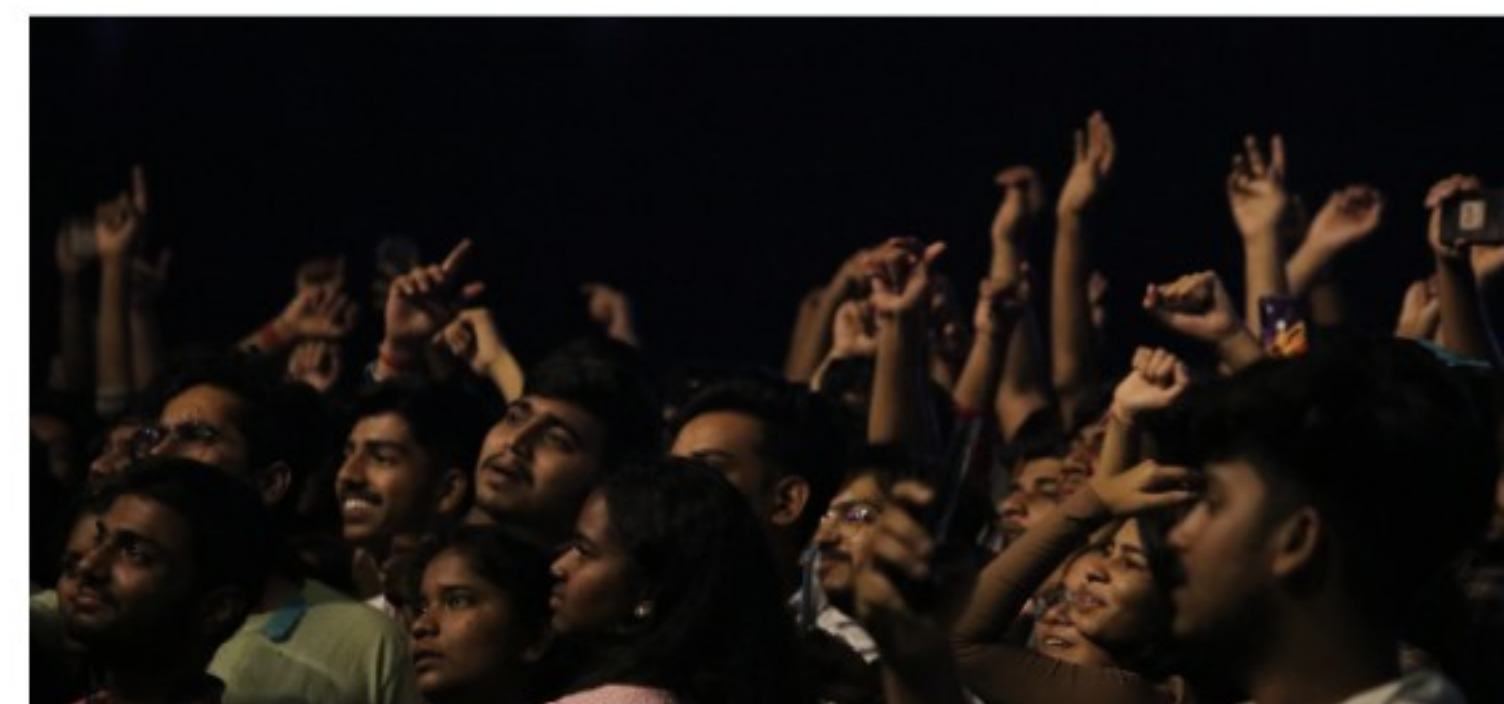
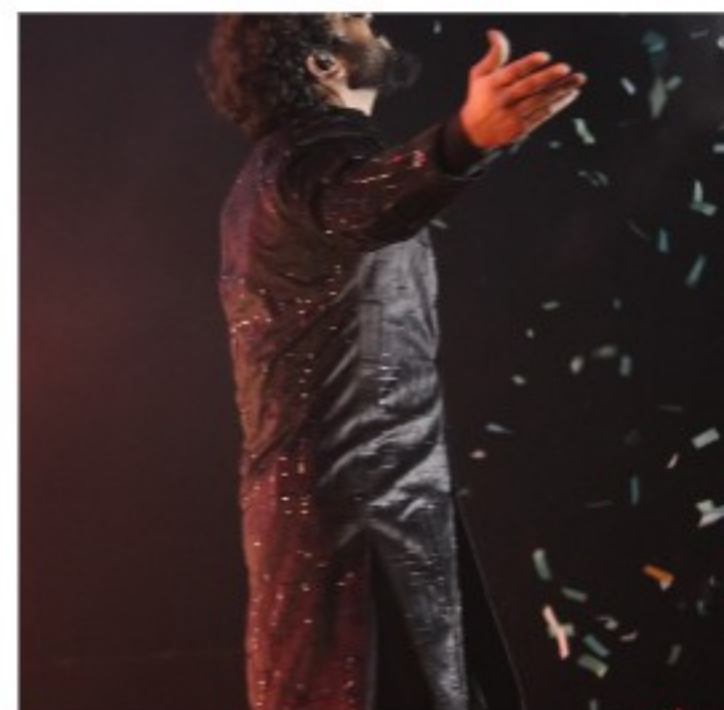
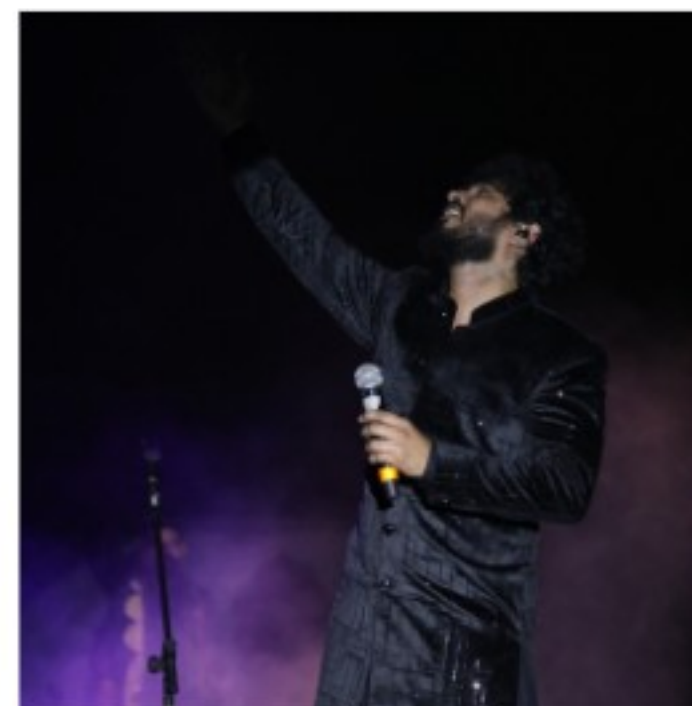
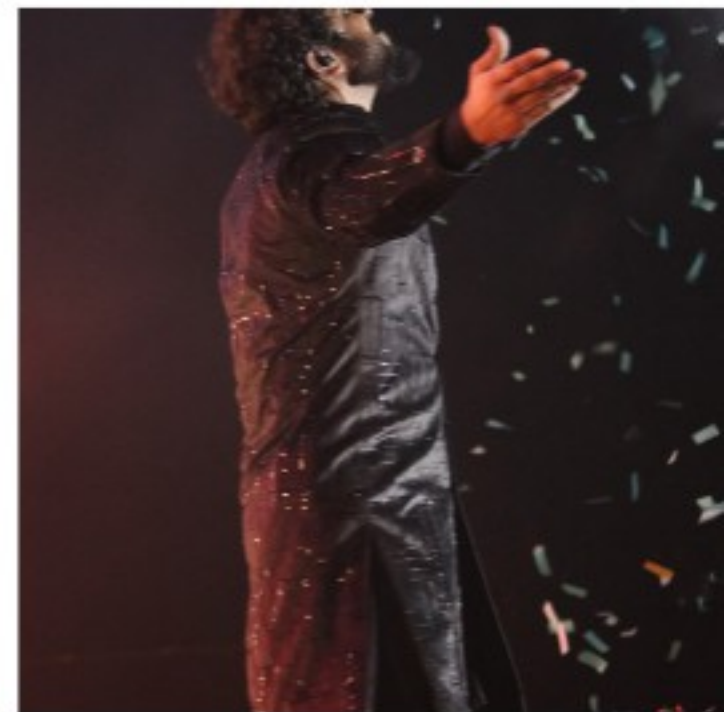
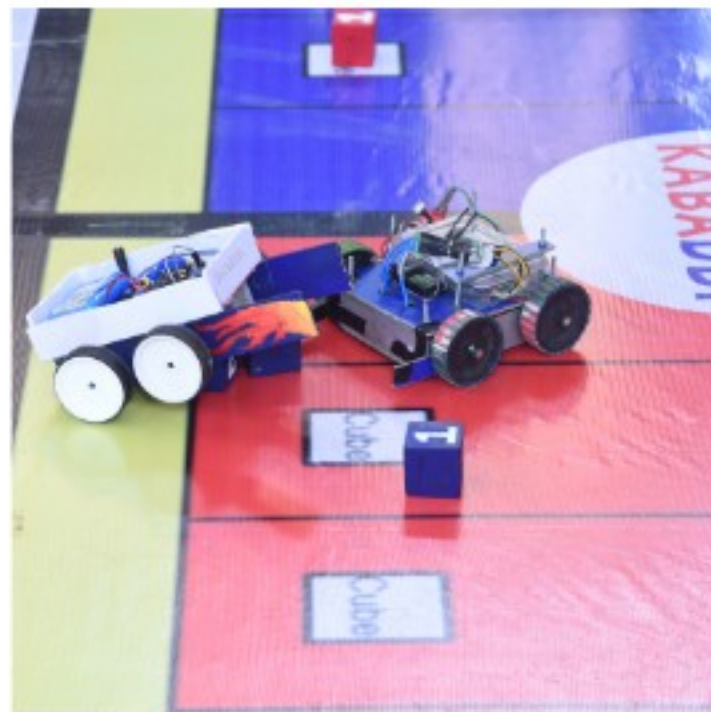
Nirvana

Nirvana is the official Mental Health and Queer Community Society of IIT Bhilai; we aim to provide a safe space for discussion without any judgment, bigotry, or backlash via support groups and informal helplines. Throughout the year, Nirvana hosts numerous events and gatherings that provide information and awareness aimed at sensitizing people more towards these issues and communities and bridging the gap between them.

EVENTS



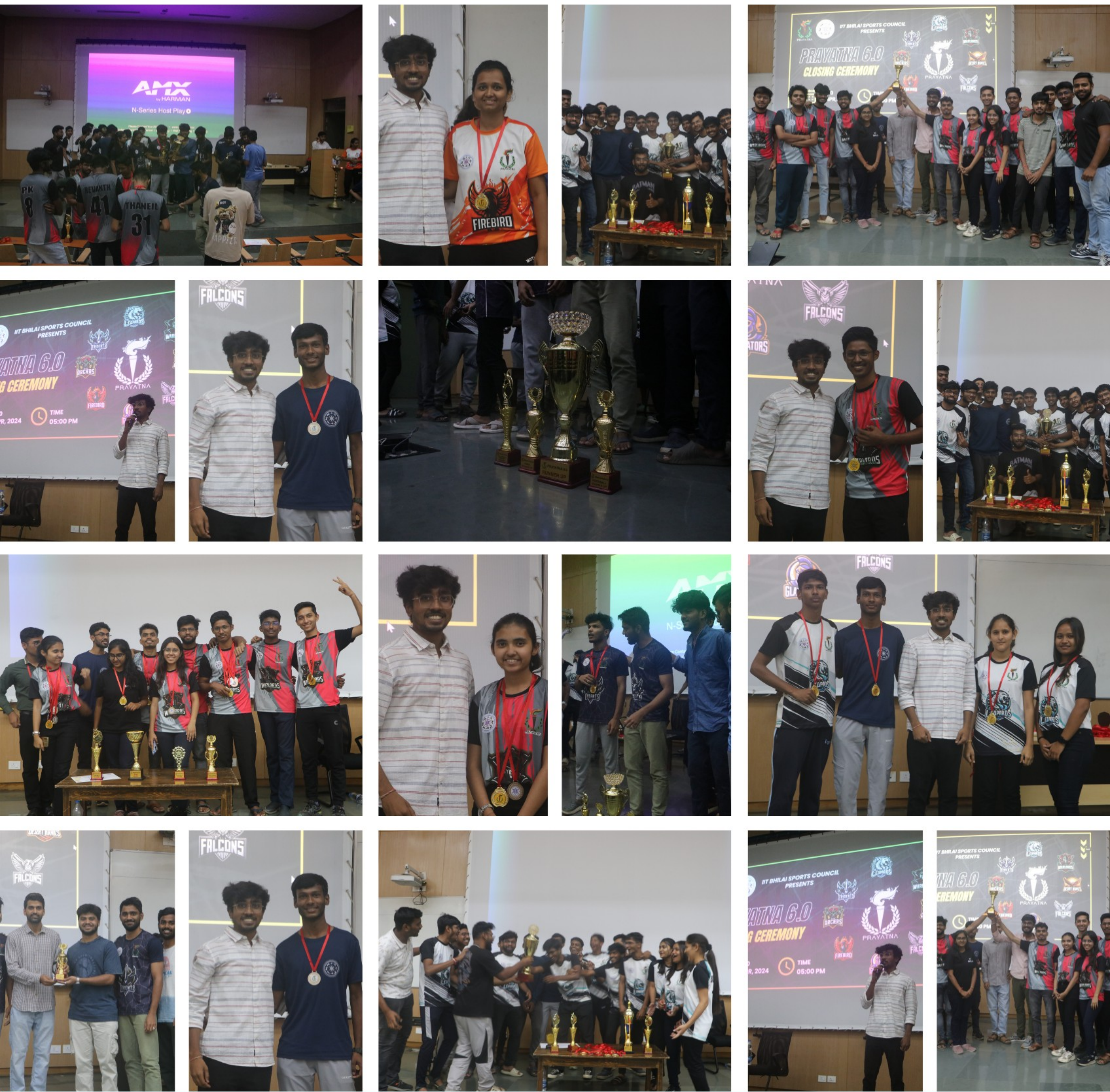
IIT Bhilai's yearly techno-cultural festival; the vivacious spectacle that breaks through barriers and stokes passions. Meraz, which is rooted in the long history of techno-cultural events IIT Bhilai, is a tribute to our dedication to developing talent and promoting an exploratory and growing attitude.



EVENTS

PRAYATNA

Prayatna, our annual sports competition, embodies unity, sportsmanship, and passion. It fosters healthy participation, pushing boundaries, and building camaraderie among our technocrats. It strengthens both body and mind, celebrating victory and the values of teamwork and perseverance in our vibrant sports culture.





PLACEMENTS

PLACEMENT TIMELINE

JUNE

JULY

AUGUST

SEPTEMBER

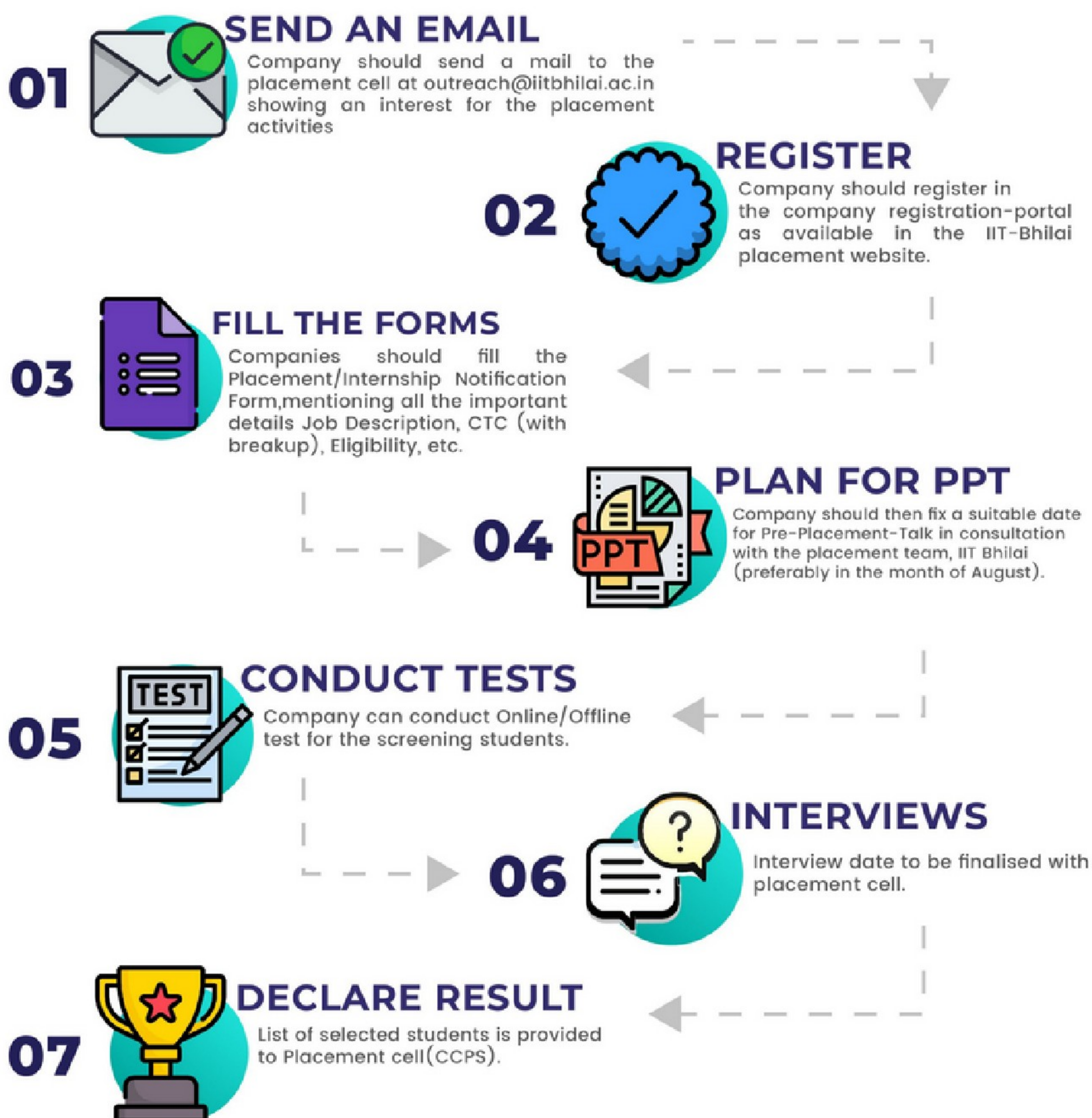
COMPANY
ONBOARDING
COMMENCES

STUDENT
REGISTRATION AND
RESUME BUILDING

PRE-PLACEMENT
TALK COMMENCES

TEST AND INTERVIEW
COMMENCES

PLACEMENT/INTERNSHIP PROCESS



CAMPUS PLACEMENT HIGHLIGHTS 2024-25

The Centre for Career Planning and Services is aimed at assisting students in selecting their career paths and providing ample placements and internship opportunities. CCPS prides itself in numerous success stories of amazing achievements right from its inception. The sixth placement session was conducted during 2024-2025, which has added another milestone and bright colors to CCPS.



04

INTERNATIONAL
OFFERS



134

JOB OFFERS



119

RECRUITERS

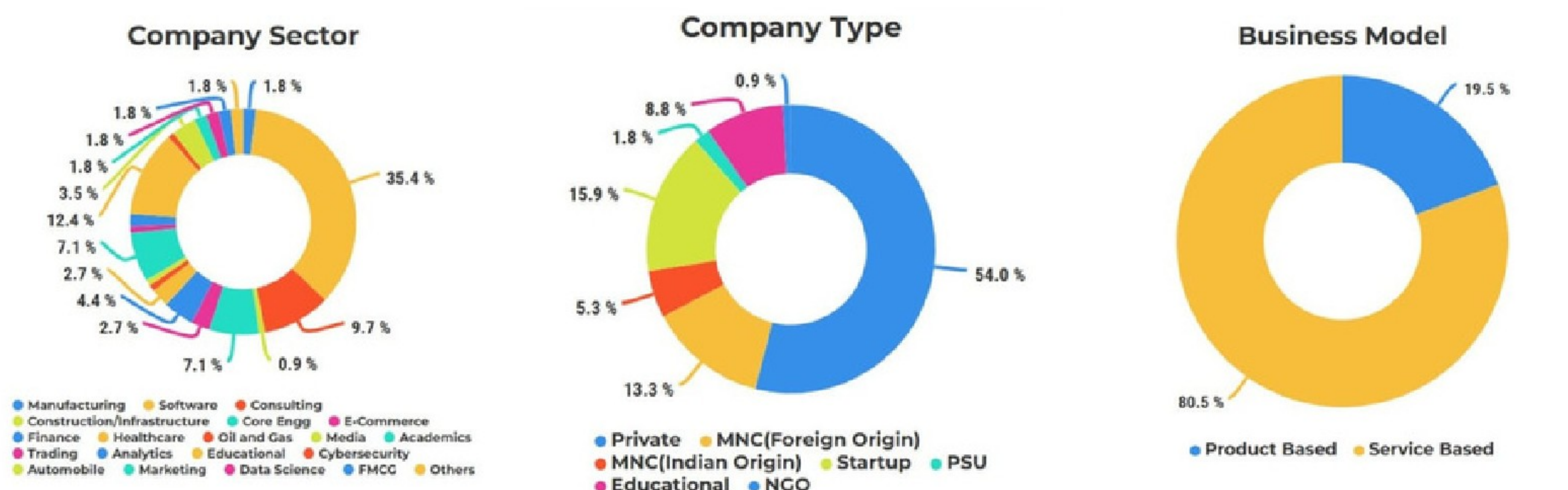


12.68 LPA

AVERAGE CTC

CAMPUS PLACEMENT HIGHLIGHTS 2024-25

RECRUITER'S STATISTICS 2025



RECRUITERS



INTERNSHIP HIGHLIGHTS 2024-25

IIT Bhilai has partnered with major corporate offices and institutes for Internships and training programs. During the academic year 2024-2025, the CCPS Office collaborated with numerous industrial facilities, corporate houses, institutions, and other organizations not only to provide internship opportunities for the students but also to provide practical and industrial exposure as well.

In the summer of 2025, more than 85 internship offers were received by our students from several reputed organizations. Major internship recruiters were Google, NVIDIA, Warner Bros Discovery, ICICI Bank, TCS Research, Publicis Sapient, Assurant, Bhilai Steel Plant, etc. BTech third-year students are available for internships during their summer (May–July, approximately 10 weeks) and winter (December, approximately 4 weeks) vacations. Additionally, final-year BTech students have the flexibility to pursue a 6-month internship either in their 7th semester (August–December) or 8th semester (January–June), depending on the company's preferences.



88

INTERNSHIP
OFFERS



120K

HIGHEST STIPEND



32

RECRUITERS



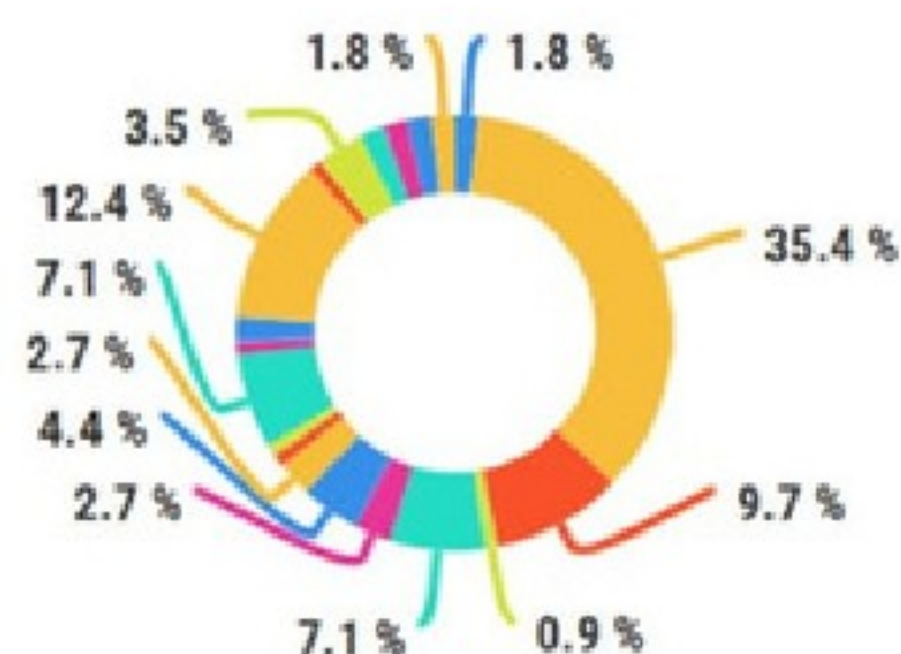
35K

AVERAGE STIPEND

INTERNSHIP HIGHLIGHTS 2024-25

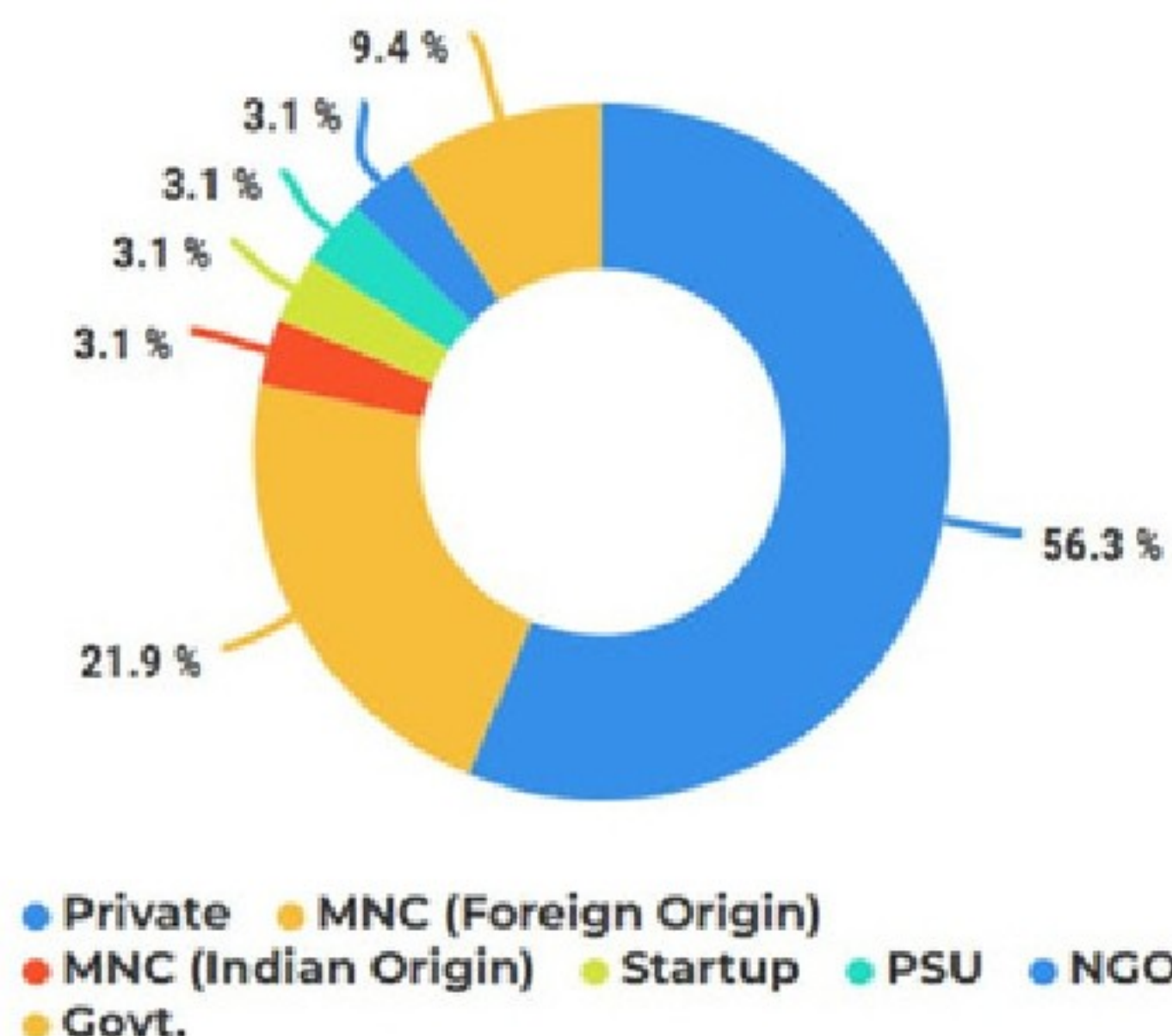
RECRUITER'S STATISTICS 2025

Company Sector



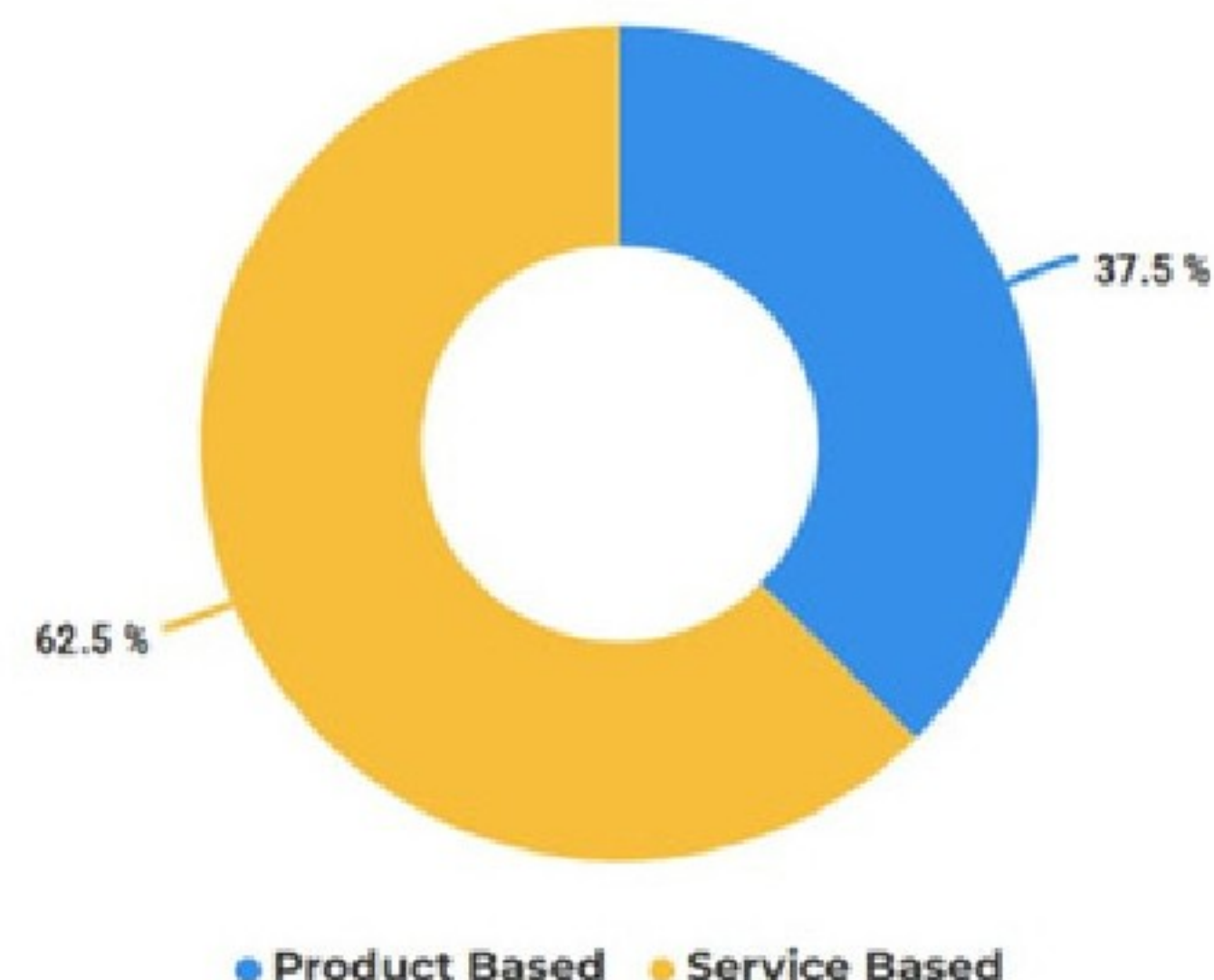
Manufacturing Software Consulting
 Construction/Infrastructure Core Engg
 E-Commerce Finance Healthcare
 Oil and Gas Media Academics Trading
 Analytics Educational Cybersecurity
 Automobile Marketing Data Science
 FMCG Others

Company Type



Private MNC (Foreign Origin)
 MNC (Indian Origin) Startup PSU NGO
 Govt.

Business Model



Product Based Service Based

RECRUITERS



publicis
sapien

Google



ASSURANT®



ICICI Bank



tcs
Research



DIZBI

semusi

navgurukul

MERKLE



SUNSTONE
EDUVERSITY



The
Right
Doctors

FORTYTWO LABS
BRINGING IDEAS TO LIFE



Vadanya
Scientific



I'm beside you





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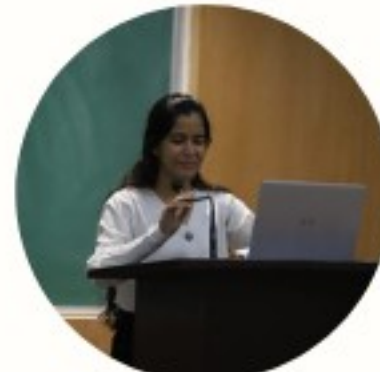
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HOW TO REACH IIT BHILAI



ADDRESS

Indian Institute of Technology Bhilai
Bhilai, Durg District,
Chattisgarh - 491002

One can reach Bhilai, by AIR, TRAIN or ROAD



BY AIR

From Swami Vivekanand Airport

Swami Vivekanand Airport is the nearest airport to IIT Bhilai, the airport is situated in Raipur. The airport is located at a distance of 48.9 km from the centre of Bhilai city and takes about 1.5 hours to reach. IIT Bhilai is 52.8 km from Swami Vivekanand Airport, Raipur. The campus can then be reached by any other modes of transport. City buses can then be availed from the airport to Bhilai, or one can have any authorised or prepaid taxi from the airport. Buses from Raipur to Bhilai are frequent



BY TRAIN

Durg junction is at a distance of 7 km from the campus and it takes about 12 mins to reach campus. Various transport facilities like auto-rickshaw, taxi, app based cab can then be availed to reach campus directly



BY ROAD

Campus is 5 km from Great Eastern Highway. Campus is well connected by roadways. Durg bus stand is 9.3 km from campus





Centre for Career Planning and Services (CCPS)

Indian Institute of Technology Bhilai
Bhilai, Durg District, 491002
Chattisgarh

Website: <https://www.iitbhilai.ac.in/index.php?pid=placement>



Scan to know more about
CCPS



DESIGNED BY AKSHITA | ASHTA PRIYA | KHUSHAGRA BARFA |
AYUSH THAKARE