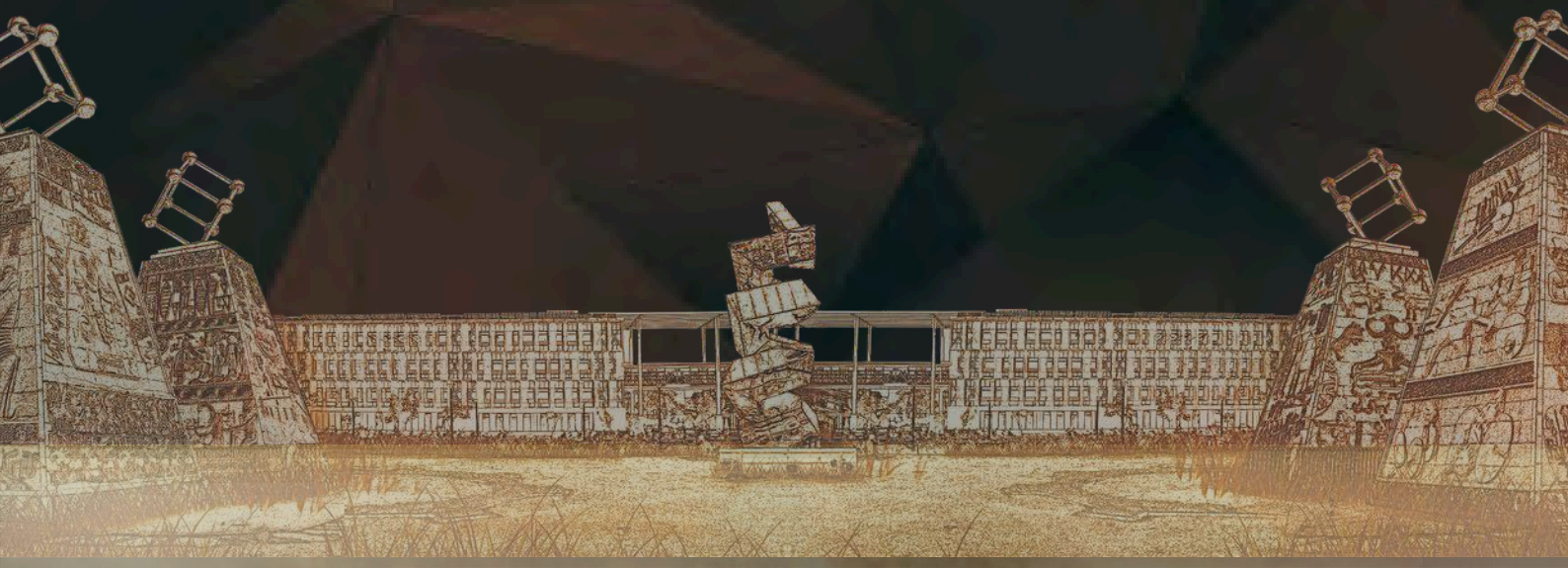
INDIAN INSTITUTE OF TECHNOLOGY

ROPAR



PLACEMENT & INTERNSHIP

BROCHURE

2024-25

IIT ROPAR

CDPC Career Development & Placement Cell

MOTTO

धियो यो नः प्रचोदयात्
(Deploy our Intellect on the Right Path)

MISSION

To foster a transformative learning environment and a culture of excellence enabling creation of knowledge and development of socially responsible, enterprising leaders contributing significantly to national progress and humanity.

VISION

To be a trendsetter among the technology universities born in this millennium.

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ABOUT

IIT ROPAR

Indian Institute of Technology Ropar, is established by the Ministry of Human Resource Development (MHRD), Government of India, in 2008 to expand the reach and enhance the quality of technical education in the country. This institute is committed to providing state-of-the-art technical education in various fields and facilitating the transmission of knowledge in keeping with the latest developments in pedagogy. These two areas of focus will enable students to gain exposure to recent trends in their chosen domains of study and gain practical experience through a wide variety of activities the institute facilitates on its campus and arranges for in collaboration with industry and other institutes. At present, the institute offers a Bachelor of Technology (B. Tech.) program in the following disciplines: Artificial Intelligence and Data Engineering, Chemical Engineering, Civil Engineering, Computer Science and Engineering, Engineering Physics, Electrical Engineering, Mathematics and Computing Engineering, Mechanical Engineering and Metallurgical & Material Engineering. Institute also offers an M.Tech program in the following disciplines: Biomedical Engineering, Computer Science and Engineering, Electrical Engineering, Chemical Engineering, Civil Engineering, and Mechanical Engineering. In addition, a 5-year BTech-MTech Dual Degree program in Mechanical Engineering is also offered.

FROM THE DIRECTOR'S DESK

PROF. RAJEEV AHUJA

The Indian Institute of Technology Ropar is one of the eight new IITs set up by the Government of India in the year 2008, with a view to expanding access to high-quality technical education for young bright minds of India. IIT Ropar has established the required infrastructure, including our permanent campus spread over 500 acres on the bank of the river Sutlej. Our highly qualified faculty members are renowned in their respective fields, thus recognized globally for fundamental and outcome-oriented research. In the last 15 years, IIT Ropar has achieved several milestones regarding new academic programs, cutting edge R&D, global research collaborations, and meaningful investments in infrastructure including state-of-the-art laboratories, to ensure that our students receive the best technical education.

At IIT Ropar, students are exposed to the most modern and up-to-date curriculum aligned to the Washington Accord, ensuring they are equipped with the latest advancements in engineering and science across various disciplines. Complementing this academic rigor, they also gain internship experiences in prestigious national and international companies. In addition, we have a well-established Career Development and Placement Cell (CDPC), dedicated to nurturing the professional growth of our students. Through tailored training programs in business communications and soft skills, as well as personalized guidance towards top-notch internships and job opportunities, the CDPC fosters a seamless bridge between academia and industry. For 2023, under the National Institute Ranking Framework by the Ministry of Human Resource Development, IIT Ropar stood 22nd in the engineering category. With this distinguished background, I wholeheartedly invite your organisation to IIT Ropar Campus to recruit our B.Tech, M.Tech, M.Sc. and, PhD graduates. You will be able to recognise the availability of a choice of bright & talented students with requisite skills that can solve your challenging engineering/scientific problems and add value to your organisation.

Prof. Rajeev Ahuja
Director, IIT Ropar

ABOUT

CDPC

CAREER DEVELOPMENT & PLACEMENT CELL

The Career Development and Placement Cell (CDPC) of IIT Ropar plays a pivotal role in facilitating the professional growth and placement opportunities for its students. Committed to bridging the gap between academia and industry, the CDPC organizes various workshops, seminars, and training programs to enhance students skills and make them industry-ready. CDPC also facilitates the participation of graduating students in the campus placement process in the fourth year. In addition, it provides assistance to all B.Tech students in finding mandatory summer internship opportunities at the end of the third year as well as one semester long internships (to be undertaken in seventh or eighth semester) for students opting for B. Tech with Additional Internship program. The CDPC's efforts have enabled students to secure placements in esteemed companies across diverse sectors.

MESSAGE FROM THE **ASSOCIATE DEAN (CEOA)**

Dear Recruiters,

Dr. SARANG GUMFEKAR

With great enthusiasm, I invite you to participate in the 2024-25 placement and internship sessions at the Indian Institute of Technology Ropar. As the Associate Dean of Continuing Education and Outreach Activities, I'm proud to highlight the remarkable opportunities our institute offers.

At IIT Ropar, we blend rigorous academic training with extensive industry engagement. Our curriculum provides a strong technical foundation while nurturing personal and professional growth. Through classroom instruction, lab experiments, research projects, industrial collaborations, and extracurricular activities, our students become well-rounded individuals ready to meet high industry standards.

Our faculty's active participation in cutting-edge research and their dedication to mentoring ensure our students are abreast of the latest advancements and capable of innovating in their fields. Unique programs like the 6-month internship for B.Tech students and the Joint Master Thesis (JMT) program offer hands-on experience and opportunities to collaborate with industry leaders on real-world challenges. I warmly invite you to engage with our talented students through placement drives, internships, and collaborative projects. Your participation will not only provide our students with valuable opportunities but also bring fresh perspectives and innovative solutions to your organization. Together, we can forge a partnership that drives mutual growth and excellence.

Thank you for considering IIT Ropar for recruitment. We look forward to welcoming you to our campus and building a lasting relationship. Please feel free to contact us for further information or assistance.

Dr. Sarang Gumfekar
Associate Dean (Continuing Education and Outreach Activities)
IIT ROPAR

MESSAGE FROM THE **PLACEMENT OFFICER**

Dear Recruiters,

I extend a warm welcome to your esteemed organization to participate in the campus placements process at IIT Ropar for the graduating batch of 2025. At IIT Ropar, we strive to foster a dynamic relationship between industry and academia, with our Career Development and Placement Cell making this ambition a reality.

We are proud to be the pioneers of introducing six-month internship program for the B.tech. students of IITs. Additionally, our unique Joint Master Thesis (JMT) program is exclusively designed to seamlessly integrate faculty and industry projects, allowing our M.Tech. Students to work with the industry for upto 1 year.

Ms. PREETI GARG

IIT Ropar is always on the lookout for new-age skill sets, thus offering specializations in AI and Data Science. In 2023, IIT Ropar launched an innovative residential program in collaboration with IIM Amritsar–M.Sc. in Data Science and Management–to equip our students with industry-ready skills.

As potential recruiters, we invite you to take advantage of these remarkable opportunities to engage with our talented students. By participating in our placement drives, offering internships, and collaborating through the JMT program, you can tap into the immense potential and fresh perspectives that our students bring. We look forward to welcoming you to IIT Ropar and building a fruitful partnership that contributes to the success of both your organization and our students.

Ms. Preeti Garg
Placement Officer
CDPC, IIT ROPAR

Academic Programs (Undergraduate)

IIT Ropar provides diverse academic programs for students from various backgrounds. Admission is typically determined by national-level tests, sometimes followed by interviews at the institute.

Due to our uniquely designed curriculum, IIT Ropar offers a plethora of UG programs including the option to have B.Tech with 6 month internship which is remarkable, as this is the first IIT to provide this option. The various other programs are listed below.

Bachelor of Technology

(Admitted through Joint Entrance Examination (JEE)
Duration: 4 Years)

- **Basic BTech:**
  Total 145 Credit course work.
- **Minor:**
  Extra 15 Credits course work.
  Students can opt to do a minor in any discipline other than their major discipline.
- **Concentration:**
  Extra 15 Credits concentration course work
  Students can choose a concentration area, which will be within the major discipline.
- **Honors:**
  Credits: Extra 15 Credits Coursework + 10 Credits Honors
  An honors student can opt for minor/concentration
- **Additional 6-month Internship:**
  The coursework required for "Basic B.Tech." may be completed in seven semesters.
  Additional Internship may be opted during the seventh or eighth semester.

Academic Programs (Postgraduate)

IIT Ropar offers *M.Tech*, *M.Sc.* & *Ph.D.* across streams emphasizing high-quality research. IIT Ropar encourages Joint Master Thesis for PG students to work with Industries and R&D establishments while providing exposure to current challenges, which adds to students' skills to pursue a holistic and efficient approach.

Degrees in PG programs are awarded on successful completion of Course Credits & approved completion of projects by the Project Assessment Committee.

Masters of Technology (M.Tech)

Admitted through GATE
Duration: 2 Years
Streams: Engineering fields

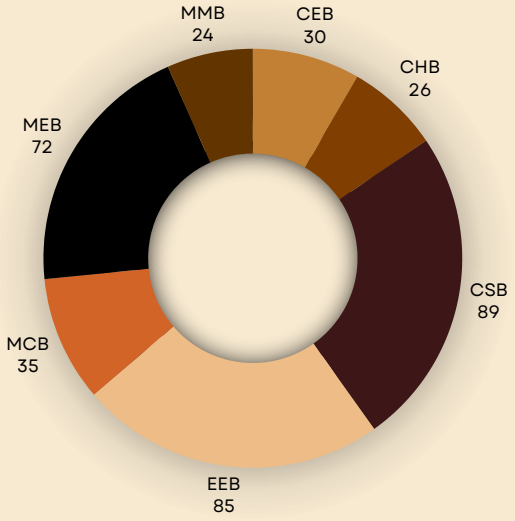
Masters of Science (M. Sc)

Admitted Through JAM
Streams: Mathematics, Physics, Chemistry, Data Science & Management

Doctor of Philosophy (Ph.D.)

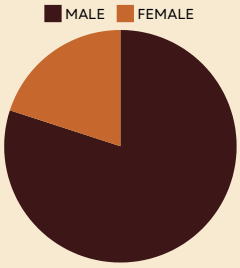
The institute, apart from establishing a robust teaching environment, is determined to support cutting edge research, enabling students to acquaint themselves with latest developments in their respective fields. The institute offers PhD programmes in a wide range of areas in Science, Engineering & Humanities. The broad objective of the PhD programme is not only to keep pace with the expanding frontiers of knowledge but also to provide research training relevant to the present social and economic challenges of the country.

Demographics



B. TECH.

TOTAL: 361



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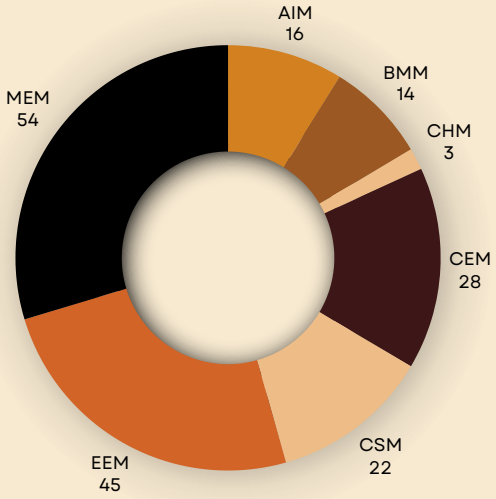
Diversity Ratio

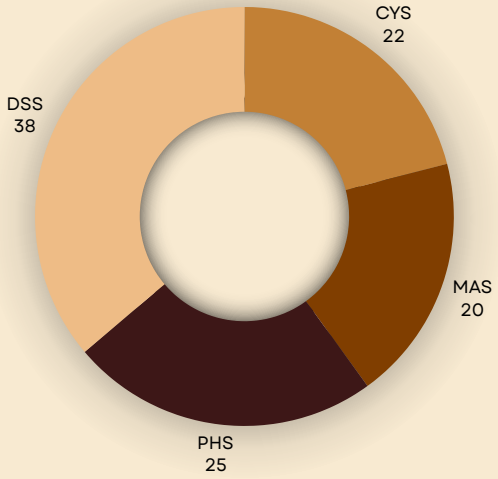
M. TECH.

TOTAL: 182



M. SC.

TOTAL: 105



B.Tech.

CSB : Computer Science & Engineering
EEB : Electrical Engineering
MEB : Mechanical Engineering
CEB : Civil Engineering
CHB : Chemical Engineering
MMB : Metallurgical and Materials Engineering
MCB : Mathematics & Computing

M.Tech.

CSE : Computer Science & Engineering
EE : Electrical Engineering
ME : Mechanical Engineering
CE : Civil Engineering
AI : Artificial Intelligence
MED : Mechanical Engineering Dual Degree

M.Sc.

CHZ : Chemistry
MAZ : Mathematics
PHZ : Physics
DSS: Data Science & Management

DEPARTMENTS
IIT ROPAR

- Biomedical Engineering
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science and Engineering
- Electrical Engineering
- Humanities and Social Sciences
- Mathematics
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics
- Engineering Physics
- Data Science and Management

DEPARTMENT OF

BIOMEDICAL ENGINEERING

ABOUT

The main goal of the DBME is to meet the challenges of affordable healthcare faced by the nation by encouraging research and entrepreneurship in interdisciplinary areas, medical science, and natural science. Due to the diverse research backgrounds of our faculty, there is a strong thrust on interdisciplinary research at the center. Going forward, the center seeks collaboration with national and international universities/institutes and partnerships with industries to realize its goal. Regarding academic programs, the department offers B.tech(minor), M.tech, and Ph.D. in Biomedical Engineering.

FACILITIES

- Medical Devices and Instrumentation
- Biomechanical Characterisation Instruments
- Molecular Biology Fascility
- Cell Culture Fascility
- 3D-Bioprinter
- Microscopy and Raman Spectroscopy
- Flow Cytometry

DOMAINS

- Medical Devices
- Medical Imaging
- Bio- Photonics
- Cancer Biology
- Immunology
- Biomechanics
- Biomaterials and Regenerative Medicine

ACHIEVEMENTS

- Students secured placements in industries such as Boston Scientific, Rean Foundation, Yamaha, Trident and others.
- Faculty and students are actively involved in industrial consultancy-based projects and entrepreneurial activities.
- The students have received PMRF, Khorana, and Newton Bhabha (British Council) scholarships.

DEPARTMENT OF

CHEMICAL ENGINEERING

ABOUT

The Department of Chemical Engineering was established at IIT Ropar, with the introduction of B.Tech. and Ph.D. programs commencing in 2017, and an M.Tech. program in 2019. The students and research scholars are trained for industry as well as research, through rigorous teaching and knowledge transfer philosophy. Graduates from the department have undergone internships in core chemical industries and management consulting firms. They possess a strong background in computational sciences and have undertaken research experiences at renowned foreign and national research groups. The diversity of the Chemical Engineering curriculum and training by globally recognized faculty has also provided a solid foundation in preparing them for cross-functional roles in finance and economics, analytics, product management, and coding positions.

DOMAINS

- Soft matter Engineering
- Catalysis And Reaction Engineering
- Energy and Environment
- Multiscale Modeling
- Transport Phenomena and Thermodynamics
- Process Control and Optimization
- Machine Learning for Chemical Processes

FACILITIES

- Chemical Reaction Engineering Lab
- Process Simulation Lab
- Heat and Mass Transfer Lab
- Soft Matter and Microfluidics Research Lab
- Process Control and Data Analytics Lab
- Polymer and Nanomaterial Engineering Lab
- Catalysis and Sustainable Energy Research Lab

ACHIEVEMENTS

In addition to peer-reviewed high impact research publications and technology transfer from lab to industry, faculty members are also involved in consultancy projects with World Bank, Government of India, Government of Punjab and other private industries.

DEPARTMENT OF

CHEMISTRY

ABOUT

The Department is actively engaged in cutting-edge research in emerging areas like Biomaterials, Biosensors, Catalysis, Drug Delivery, Materials, Organometallic Chemistry, Ultracold Chemistry, Renewable Energy, Supramolecular Synthesis, Synthetic Organic Chemistry, and Theoretical Chemistry. The research activities of the department are supported by a large number of sponsored research projects and state-of-the-art research facilities that exists at the department and institute level.

The department is served by 15 faculty, 8 Post Doctoral Fellow, a research associate, a Ramanujan Fellow and more than 100 PhD students and project fellows. The department is visited by a large number of experts and short-term students from India and abroad.

ACHIEVEMENTS

Many members of the department have been granted various patents and published in reputed Journals as well as awarded with various Scholarships/Fellowships like PMRF, Marie Curie Scholarship, Royal Society of Chemistry, CRSI and many more.

DOMAINS

- Organic Chemistry, Drug Delivery
- Inorganic and Material Chemistry
- Polymers, Sensor
- Physical and Theoretical Chemistry
- Energy Harvesting
- Battery
- Supercapacitor

FACILITIES

- NMR (400MHz)
- High Resolution Mass Spectroscopy
- Single Crystal XRD
- Microwave Plasma Atomic Emission Spectrometer
- Nano Particle Size Analyzer
- Gas Chromatography
- UV - Visible Spectrometer
- X-Ray Diffraction System

DEPARTMENT OF

CIVIL ENGINEERING

ABOUT

The Civil Engineering department came into existence in 2016, and currently has a faculty strength of 17, and a student strength of 237 (B.Tech-120 , M.Tech-53 and Ph.D.-62).
Further, the department also has M.Tech programs in areas of Water Resources and Environment, Structural engineering, and Geomechanics.
Our curriculum provides a strong foundation for the B.Tech, M.Tech, and Ph.D students in Civil infrastructure design and management with strong mathematical base.
The Department is actively engaged in industrial collaboration through research and consultancy projects with various government and private industries (worth over 5 crores), and aims at "Fostering a transformative learning environment and a culture of excellence enabling creation of knowledge and development of socially responsible, enterprising leaders contributing significantly to national progress and humanity.

ACHIEVEMENTS

Our students made us proud by performing spectacularly at IPPC 2020, Global Talent Internship 2021, GATE 2022 (AIR 8). Further, our faculties are associated with many renowned associations like International Geothermal Association (IGA),Transportation Research Group of India, International Conference on Advancements and Innovations in Civil Engineering, and have even been recognized by the government of Taiwan and awarded with Global Talent Internship 2021.

DOMAINS

- Structural Engineering
- Geotechnical Engineering
- Water Resource Engineering
- Transportation Engineering
- Environment Engineering
- Geomatics

FACILITIES

- CAD Lab
- BIM Lab
- Soil Water Plant lab
- Environment Engineering Lab
- Geomatics Engineering Lab
- Geotechnical Engineering Lab
- Hydraulics Engineering Lab
- Structure Engineering Lab

DEPARTMENT OF

COMPUTER SCIENCE & ENGINEERING

ABOUT

Since its establishment in 2008, the Department of CS&E has evolved into a welcoming community for scholars and faculty members alike. Currently, the department boasts a team of 22 dedicated faculty members and a vibrant cohort of over 80 PhD students. The department's research expertise spans across theoretical computer science, artificial intelligence, and computer systems.

The department offers a variety of programs at the bachelor, master and doctoral levels. Students have been running active communities like Coding Club, Software Community and AI Community

DOMAINS

- Deep Learning
- Hardware Theory
- OS
- Cloud Computing
- Computer Vision
- Social Computing
- Cyber Security
- Cryptography
- Computer Networks
- Internet of Things
- Algorithm Design
- AI in Healthcare
- AI in Agriculture

ACHIEVEMENTS

- Our faculty have been awarded research grants from DST, SERB, NPTEL and DST(CSRI).
- They have also been awarded and recognized at various conferences globally
- Has obtained a funding to the tune of over 20 crore INR since its inception.

FACILITIES

- High Performance Computing
- Image processing
- Security Multimedia
- Analytics
- Statistical AI
- Machine Learning Labs

DEPARTMENT OF

ELECTRICAL ENGINEERING

ABOUT

The Department of EE at IIT Ropar is one of the pioneering departments offering a strong environment for undergraduate and postgraduate education and research in electrical engineering and related fields. The undergraduate programs provide students with a strong background in the four broad areas of Electrical Engineering: Communication Technology, Control Technology, Electronics, and Power & Energy. Substantial exposure to state-of-the-art technologies is further provided through elective courses that are carefully designed for interested students.
The department also has several exclusive and unique facilities, such as the CVPR(Computer Vision and Pattern Recognition) lab, which has been one of the most active research labs of the institute in recent years. We also have an Antenna Microwave lab, Communication Research lab, VLSI wet lab, VLSI characterization lab, Smart Grid Lab, High Voltage Lab, and High voltage and medium voltage equipment test bed.

DOMAINS

1. Electronics: Nano Electronics, Analog and Mixed Signal VLSI System
2. Power Engineering: Power System, High Voltage Engineering, Power Electronics
3. Communications: Signal and Image Processing, AI and Machine Learning, Data Science,5G Technology

ACHIEVEMENTS

- Reserach papers in highly reputed journals and conferences. Our faculty were also awarded research grants from various national agencies which include DST, SERB and various industries including BEL, BHEL etc.
-
- The department is not only striving to develop cutting-edge technologies, as evident from the number of patents and Publications but also contributes to the Industry/societal growth through sponsored and consultancy projects.

FACILITIES

AMR Lab, Communication Engineering Lab, Computer Vision and Pattern Recognition Lab, Facilities: Anechoic Chamber, Scara Robot, Chip Bonding Machine, MITS, Bench Top VNA (100MHz to 43.5 GHz), Handheld VNA (10kHzto 44 GHz), High Voltage, Medium Voltage Equipment Test Bed.

DEPARTMENT OF

HUMANITIES & SOCIAL SCIENCE

ABOUT

The Department of Humanities is multidisciplinary and hosts several subject disciplines such as Economics, Literature, Management, Philosophy, Psychology, sociology, and Cognitive Science. It provides engineering students with proper training to improve English communication skills, the power to express themselves via Linguistics and English, the ability to appreciate Management, the importance of Psychology and Cognitive Science, and finally, to deliberate Philosophically. Cross disciplines, the department offers various core and elective courses for undergraduate students and Ph.D. courses for our graduate students. Our alums have been placed as faculty members at prestigious educational institutes such as the Central Institute of Indian Languages IIM-R and DTU.

FACILITIES

Language & Cognition Lab Access to literature & publications fromaround the world

RESEARCH

- Research papers in highly reputed journals and conferences. Our faculty was also awarded research grants from various national agencies, which include DST, SERB, and various industries inDecision Making, Philosophy of Mind and Cognition, American Literature, Literary and Critical Theory, Visual Culture, Literary Historiography Studies, Postmodern Literature, Continental Aesthetics, Fantasy/Horror Literature, Genre Film, Gender studies, Postcolonial studies, Road Narratives, psyco/Neurolinguistics, Language and Cognition, Phonetics, Optimally Theory, Speech Processing, Natural Language Processing, Metaphysics of the self, Ethics and Value Theory.
- The department is not only striving to develop cutting-edge technologies, as evident from the number of patents and Publications but also contributes to the Industry/societal growth through sponsored and consultancy projects.

DEPARTMENT OF

MATHEMATICS

ABOUT

The Department of Mathematics at present has 20 full-time faculty members specializing in Pure Mathematics, Mathematical Finance, Applied Mathematics, Data Science & Statistics, and Theoretical computer science. The department offers courses supporting undergraduate programs in all disciplines at the institute, including B.Tech. Mathematics & Computing (MnC), M.Sc. Mathematics and Doctoral programs. B.Tech. MnC program is designed to provide students with a strong foundation in both Mathematics and Computer Science, focusing on areas where the two disciplines intersect. Graduates are well-prepared for advanced degrees and careers in a variety of industries. The curriculum is designed to provide a perfect platform for students seeking strong mathematical and analytical components, with a specialization in AI and Data Science. Department graduates possess the ideal skills for careers across diverse sectors such as Data Science, IT, Software Development, Big Data Analytics, Finance & Economics, as well as ML & AI, and for pursuing further education at esteemed institutions both in India and abroad. Undergraduate students can enroll in a concentration program in domains such as Applied Mathematics, AI, Theoretical Computer Science, or Advanced Mathematics

FACILITIES

- High Performance Computing
- GPU Computing
- Mathematical Softwares Based Lab

ACHIEVEMENTS

- DST-SERB, NBHM, CSIR, INSPIRE, Indo-Russian Grants to Faculty Members, Research collaboration with over 50 prestigious institutions spanning more than 20 countries globally, 100% placement of the first graduating batch of B.Tech. MnC, 70% placement of graduating M.Sc. Math. batch, Dept. publishes high-quality research in top-tier journals, Ph.D. graduates secure Postdoctoral and faculty positions in highly ranked universities across the globe, and MSc graduates are being admitted to prestigious universities in India and overseas to pursue their Ph.D. or MS degrees.
- The department is actively involved in organizing international conferences and short-term courses.

DOMAINS

- Data Science
- Applied Statistics
- Artificial Intelligence
- Mathematical Modelling
- Numerical Computations
- Mathematical Finance
- Number Theory and Cryptography
- Theoretical Computer Science
- Image Processing
- Numerical Analysis
- Analysis and Applications
- Computational Fluid Dynamics
- Topology and Geometry
- Inverse Problems
- Differential Equations
- Algorithms
- Algebra

DEPARTMENT OF

MECHANICAL ENGINEERING

ABOUT

The Department of Mechanical Engineering is one of the founding departments of the Institute. It is also one of the largest departments of the Institute, housing 23 faculty members with varied expertise and hundreds of undergraduate, postgraduate, and research scholars.

The department aims to be one of the top departments in the world. Currently, the department offers B. Tech. in Mechanical with minors in many fields. The department also offers Master's Degrees in four disciplines, viz. Manufacturing Engineering (MF), Mechanics and Design (MD), Thermal & Fluids Engineering (TF), and Computational Mechanics.

The faculty members in the department can be categorized broadly into the following groups: Design, Manufacturing, and Thermal. The department is organized into these three generic groups for all administrative and academic purposes.

The main thrust areas of the department are Additive Manufacturing, Bio-Mechanical Engineering, Energy Efficiency and Sustainability, Intelligent Mechanical Systems, and Micro/Nano Engineered Systems

Systems, and Micro/Nano Engineered Systems

DOMAIN

- Thermal and Fluid Engineering
- Mechanics and Design Engineering
- Manufacturing Engineering
- Computational Mechanics
- Additive Manufacturing
- Bio-Mechanical Engineering
- Energy Efficiency and Sustainability
- Intelligent Mechanical Systems
- Micro/Nano Engineered Systems

FACILITIES

- Material Structures and Equipment Lab
- Mechanics of Materials Lab
- Surface Engineering Lab
- Thermo-fluidics Lab
- Cold Spray Facility
- Micro Machining and Monitoring Lab
- 3D printing Facility
- Engine testing Facility
- Robotics Lab
- Fatigue testing
- Design Research Laboratory
- HoSo TuM Laboratory
- Nanoscale Thermo-physics and Solar Energy (NTSE) Research Lab
- Mechanics of Advanced Materials Lab
- Modular and Intelligent Robotics Lab
- Multifunctional Materials, Structures and Equipment Lab
- Minimally Invasive Therapies (MInT) lab

DEPARTMENT OF

METALLURGICAL & MATERIALS ENGINEERING

ABOUT

The Department offers BTech, MTech (starting July 2024) and PhD programs in Metallurgical and Materials Engineering. The undergraduate program in the department covers the entire breadth of the field, with the areas of emphasis being Materials Characterization, Testing and Quality Control, Product Development and Design, Casting and Materials Processing, Fundamentals of Heat Treatment, Phase Transformation and Alloy Design, Extractive Metallurgy and Ferrous Process Metallurgy as well as Nano and Functional Materials. The curriculum is unique in including significant components of modeling and simulation with a hands-on modeling component that allows the students to learn and develop coding skills and an array of relevant software. Materials Informatics courses are also offered as electives whereby the students learn fundamentals of Machine Learning and their application in the metallurgical and materials domain. Similar to the undergraduate program, the postgraduate program launched in 2024 covers the breadth of materials engineering, from basic concepts in functional properties to mechanical behavior, from phase transformations to advanced characterization, and an emphasis on mathematical and numerical methods focused on understanding, interpreting and using data, building up their analytical skills. Graduates from the BTech and MTech program share a foundation of analytical skill and core domain knowledge that builds them up as a potent force in the metallurgical, materials and high-tech industrial landscape. For further information about the department, please visit https://mme.iitrpr.ac.in/ or contact hodmme@iitrpr.ac.in

FACILITIES

- Metallography Lab
- Advanced Characterization Lab
- Heat Treatment and Phase Transformations Lab
- Computational Lab
- Mechanical Testing Lab
- Materials Processing Lab
- Corrosion and Oxidation Lab
- Energy and Environmental Materials Lab
- Nanostructured and Optical Materials Lab
- Process Metallurgy and Steel Research Lab
- 3D printing facility
- Ultrasound Testing facility

DOMAINS

- Process Metallurgy and Extractive Metallurgy
- Physical Metallurgy
- Mechanical Metallurgy
- Functional Materials and Nanotechnology
- Ceramic Materials
- Materials Processing
- Computational Materials and Modeling
- Nanotechnology
- Device Design

DEPARTMENT OF

PHYSICS

ABOUT

The Department of Physics at IIT Ropar aims to deliver high-level teaching methodologies and top-notch research in advanced areas of experimental and theoretical physics. Presently, the department supports the undergraduate program with a wide variety of courses. It offers a dedicated program of the institute and Postgraduate programs i.e., B.Tech. (Engg. Phy.), M.Sc. and PhD programs in Physics.
Our curiosity-driven research programs train young scientists to acquire knowledge and mold them as global leaders in science and technology. Doctoral candidates and postdoctoral are mentored in the area of physical sciences.

ACHIEVEMENTS

- Department received grant forms DST-SERB, CSIR, INSA, DST-RFBR, DST-ICPS, BRNS, DRDO, MHRD, and DST-FIST(90 Laakhs).
- Dr. Pushpendra P. Singh is the Principal Investigator/Project Director of TIH - AWaDH established by DST at IIT Ropar with an initial grant of 110 Cr.

RESEARCH

- Condensed Matter Physics
- Material Science
- Nuclear Physics
- Light Matter Interactions
- Gravity and Strings
- Quantum Information

DOMAINS

- Optics
- Experimental Nuclear Physics
- String Theory
- Condensed Matter

JOURNALS

400+ Journal publications

CENTER FOR APPLIED RESEARCH IN

DATA SCIENCE & MANAGEMENT

ABOUT

Master of Science (M.Sc.) in “Data Science and Management” is a full-time, two-year residential program that is jointly offered by the Indian Institute of Management Amritsar and the Indian Institute of Technology Ropar. Each academic year commences in August/September and comprises two semesters each. It intends to provide a thorough knowledge of data science and its managerial applications. The participants will be equipped to organize, visualize, and analyze data and apply the insights to solve business and management problems. The program is structured to provide a cross-functional learning experience to the participants and groom them to become agile and skilled data scientists who are adept at working in various settings and can meet today’s challenges of dynamic business environments.

OBJECTIVES

- Develop a strong understanding of Data Science, Analytics, and Management.
- Equip participants with analytical and cross-functional skills to translate data analysis into meaningful insights.
- Enable participants to arrive at informed decisions in this dynamic and disruptive era.
- Create skilled working professionals with an aptitude to implement data-driven decisions in managerial applications.

ELIGIBLITY AND INTAKE

- ·60% or 6.0 CPI/CGPA or First Class, as defined by the awarding university or institute, in the qualifying degree.
- ·The qualifying degree shall be any accredited and approved Bachelor's or Master's degree or any other equivalent degree, preferably involving management, mathematics, computer science, or allied fields. Candidates must have an aptitude in mathematics or computer science.
- ·Test score of either CAT/GATE/GMAT/GRE/JAM from the past three years as from 31-July2023.
- ·Reservation norms as per the Government of India requirement, as mentioned in the IIM Act 2017 will be applicable.
- ·Up to 60 participants may be admitted for the program (including all reservation norms as per the Government of India requirement as mentioned in the IIM Act 2017).

Major Events

CORPORATE CONNECT 2.0

Corporate Connect is an initiative by the student community of IIT Ropar designed to bridge the gap between academia and industry. This event aims to provide a dynamic platform where students can network, learn, and explore potential career paths. By facilitating interactions with industry professionals, Corporate Connect 2.0 enables participants to engage in insightful discussions, gain valuable industry perspectives, and connect with mentors who can offer guidance on their career journeys. The event seeks to blend the academic knowledge and innovative spirit of students with the practical experience and expertise of industry leaders, fostering a collaborative environment that nurtures future career development and professional growth.

METRIX

The Mechanical Engineering department at IIT Ropar hosts an annual event METRIX (Mechanical Engineering Time for Research Ideas Exchange). Started in 2018, the event aims to narrow the gap between Industry and Academia by bringing them on a single platform where they share ideas between research scholars, faculty members and invitees (Industry and Academia). This is a great platform to present and exchange new ideas by research scholars, faculty members and experts from Industries working in the field of Mechanical and its allied Engineering

It provides a platform for researchers to showcase the research facilities available at the institute, enabling collaborations and utilization of resources by scholars from other institutions. The event also offers an opportunity for scholars to present their work to industry experts, fostering valuable input and collaboration. Moreover, METRIX inspires and encourages students from across the country to pursue higher studies and consider research as a viable career option.

The key events were Lab Poster Presentations, Research Talks, Expert talks, Panel discussions, Lab demonstrations and the Awards Ceremony.

CESA FIESTA

The Civil Engineering Student Association Fiesta (CESA FIESTA 1.0), which was successfully organized by the Indian Institute of Technology, Ropar.This esteemed student symposium aims to promote the dissemination of scientific information and close the knowledge gap between academics and businesspeople. The occasion offered participants a superb forum to present their creative concepts, have insightful conversations, and work together on ground-breaking research projects. Expert speakers from many industrial and scientific disciplines gave illuminating presentations, providing audiences with insightful information and inspiring them.

The symposium included a variety of engaging events, such as fascinating oral and poster presentations, thought-provoking quizzes, and exhilarating competitions for prototype and model creation. A lasting impression was made on the participants by CESA FIESTA 1.0, igniting their enthusiasm for civil engineering.

Ongoing MoUs

NON - STEM

We at IIT Ropar take students' all-round development seriously. Compulsory courses like History of Technology broaden students' perspectives, while ones like Economics help increase their technical depth in humanities. Our students have excelled at examinations such as CAT and GRE.

Courses

- Economics
- Operations Management
- Introduction to Entrepreneurship
- Finance and International Markets

Research Areas

- **Management :**
  Online marketing. Transformative Service Research, Consumer Behaviour, Sustainability, Brand Management, International marketing
- **Economics :**
  Open economy macroeconomics, Financial Markets, Credit Related Issues, Applied Econometrics, Industrial Economics, International Economics, and Climate Economics

Clubs/Societies

Finance & Consulting Club

The Finance and Consulting Club of IIT Ropar gives rigorous and extensive training to students in the fields of finance, consulting & product management etc. Students regularly engaged in live projects, case study competitions, design thinking competitions. The club manages to create an atmosphere of learning and target based skill development. The club runs it's flagship course on finance and consulting (FnC101) with more than 150 students registered in the course. It conducts regular quizzes, assignments, seminars and panel discussion by guest lecturers.

SHARE (Education and Consulting startup):

It is a crossroad of education and consulting, offering a leadership program to cultivate and nurture tomorrow's leaders. The members receive coaching from ex McKinsey and BCG consultants on real business cases to solve the global problems. IIT Ropar is the first second-gen IIT to have its chapter.
Mentioned below are some of the major roles that were hired on-campus by our previous recruiters:

- Associate Product Manager/Product Managers
- Product Analysts
- Associate Consultants
- Quant Researcher / Quant Finance
- Business Analysts
- Business Development
- Management Trainee

Entrepreneurship

TBIF

The Technology Business Incubator Foundation (TBIF) at IIT Ropar, established in 2016 as a Section 8 nonprofit organization, offers startups a 20,000 sq. ft. incubation facility to support their initiation, expansion, and acceleration. Additionally, it facilitates startups' access to networks, state-of-the-art technology, central research facilities at IIT Ropar, a network of technical and business mentors, investor pools, government funding, and more. The Foundation also oversees a dedicated student body called E-Cell, which serves as an extension of TBIF to instill an entrepreneurial ethos among the institute's students. Various activities like innovation challenges, expert talks, awareness sessions, incubation and acceleration programs, joint cohorts, etc., are regularly conducted to foster a vibrant startup ecosystem within and beyond the state.

IIT Ropar TBIF aims to nurture and add value to startups, MSMEs, entrepreneurs, and other ecosystem stakeholders, striving to enable and empower a culture hungry for innovation. It empowers local entrepreneurs, researchers and students to establish deep-tech ventures spanning diverse technological domains such as Manufacturing, IoT, AI, ML, Defence & Security, Healthcare Technologies, Energy and Waste Management.

At present, we have a total of thirty-one active incubated startups, with several more in the pipeline. These startups are working on products like developing True AI and Smart IP Cameras, and NVRs with state-of-the-art Hardware and Software systems, flexible heat patches, Gyro Chassis for T90 tanks Gun, SIFCON Panels for Baffle ranges, neonatal anti-sore beds, ICU Isolation Bed, health kiosk, drones, sustainable construction materials, textile chemical solutions, AI-based platform for recruitment, Hydrogen Dispensing Stations, robotic arms, Solar Powered Waste Plastic Pyrolysis System, etc.

E-CELL

The Entrepreneurship Cell at IIT Ropar plays a pivotal role in fostering and nurturing entrepreneurial spirit amongst our students. It serves as a dynamic platform that encourages innovation, creativity, and the pursuit of entrepreneurial ventures. E-Cell equips students with the necessary knowledge and skills to navigate the entrepreneurial landscape through workshops, seminars, and guest lectures by industry experts. Additionally, in collaboration with TBIF, it offers access to incubation facilities and connects startups with potential investors, facilitating the growth and success of student-led ventures.

E-Cell also plays a crucial role in fostering networking and collaboration and orchestrating diverse events that unite students, accomplished entrepreneurs, industry luminaries, and investors. These gatherings ensure that students not only have abundant opportunities to present their ideas and receive invaluable feedback but also provide a gateway for potential collaborators to harness the talent and creativity of our bright student community to address their entrepreneurial requirements.

Key events attended: TieCon Chandigarh, E-Summit IIT Bombay, E-Summit IIT Roorkee.

Prominent Events hosted: Startup Conclave, Intern Fair, Ideagenesis, Entrepreneurial Bootcamp, Ideathon, Professional Workshops

ENACTUS

ENACTUS stands for Entrepreneur Action and Us. It is a worldwide non-profit organization comprised of top business leaders and university students intended to make a better and more sustainable world.

Ever since its commencement, ENACTUS IIT Ropar has been working relentlessly to make communities self-sustainable, independent and to empower people by enhancing their skills and making them more aware. The team is working very hard and will continue to do so to achieve ENACTUS' mission of making a better tomorrow and superfine present.

Societies

Metsoc

Metsoc is a student-run group at IIT Ropar focused on promoting materials science and engineering. It welcomes all students and offers activities, events, and workshops to foster interest, knowledge, and collaboration in the field.

Metsoc provides workshops, seminars, and industrial visits to enhance students' technical and professional skills. They organize extracurricular activities such as discussions, technical paper presentations, and quiz contests. The group also publishes educational newsletters, offering students a platform to share their research work. Members of the society have also taken part in several technical paper presentations and contests, both on and off campus, where they have placed highly. Additionally, a large number of society members have worked on research projects and internships, helping to create novel technologies and materials with the potential to have an impact on society.

SME

The Society of Mechanical Engineers (SME), IIT Ropar, established in 2011, aims to improve the skills of students in core mechanical engineering by fostering knowledge sharing and providing greater opportunities. Serving as a bridge between students and professors, it acts as a platform for students to express their needs and demands to the faculty.

The Society of Mechanical Engineers (SME), IIT Ropar, strives to enhance the recognition of Mechanical Engineering within the student body and the wider IIT Ropar community. It facilitates opportunities for students interested in core mechanical engineering to explore and engage with the field, connecting them with professors and professionals. The society encourages participation in prestigious events and provides resources to support teams. Additionally, it spreads awareness about the latest developments through a regular newsletter and organizes informative talks by professors, alumni, and industry experts in the field.

EE-RSF

Oftentimes, research scholars face obstacles and hurdles that can only be understood by their fellow researchers and faculty members who have faced similar challenges in their journeys. Research Scholars Forum aims to provide a bridge between the scholars and faculty members, facilitating an environment of better cooperation, a platform for showcasing research activities, better outreach and support.

RSF-EE is envisioned to accomplish the following activities

- Technical talks & workshops
- Industry Collaboration
- Conferences/symposiums
- Extra-curricular activities
- Publish Magazines / Newsletter

Societies

AWC

IIT Ropar is home to a diverse array of animal species, and with this diversity comes a significant responsibility to care for them. This is where the Animal Welfare Society (AWC), comes in, shifting the focus from "Me" to "Us"-- from the human-centric worldview to the ecology surrounding us.

The mission of AWC is three-fold. Firstly, we aim not only to care for the animals on campus but also to create a safe environment for us humans to coexist with them. Secondly, we strive to educate the general public on how to handle the diverse wildlife, including stray animals, found on campus. Finally, we seek to take positive actions towards fostering a healthier relationship between humans and animals.

Our achievements at a glance:

Close to 100% success rate in vaccinating the campus dogs and puppies

- Successful curbing the canine population growth,
- Feeding dogs in several distinct locations to keep them away from public places
- Providing care for injured or sick animals, including dogs, birds, cats, foxes, rabbits and even wild boars

The AWC has also put up informative posters at various locations to educate people on how to behave responsibly towards animals. The organization runs in a nonprofit mode, and relies on funding from the IIT administration, and donations from the IIT community. Please visit https://iitrpr.ac.in/awc/ for more information.

SWE

The Society of Women Engineers (SWE) is a non-profit organization focused on education and service, supporting women to excel in engineering, gain recognition for their impactful work, and become leaders in the field worldwide. Established at IIT Ropar in 2018, SWE strives to assist female engineers in discovering their inherent talents for innovation and leadership, building upon its impressive international reputation.

With the help of a SWE leadership coach from SWE India and a Faculty Advisor from the institution, SWE facilitates professional growth for its members through arranging student dialogues with experts in science and industry, as well as hosting competitions to assess individual abilities. Its strong alumni network serves as an excellent addition by offering practical advice from experienced and loving seniors present in different fields, promoting the importance of teamwork. The inclusive atmosphere in SWE, which welcomes members from a wide range of diverse groups, is unmatched. SWE shows us the importance of maintaining dignity in our relationships both within and outside the organization, as well as fulfilling responsibilities successfully.

CULTURE

Students spend their time constructively by engaging in the activities of these clubs. The students thus represent IIT Ropar at various national and international competitions and events, bringing laurels to the institute. They allow students to showcase their creativity without bounds. Over the semester, fortnightly meetings of the clubs are held, apart from the time invested by members in their club projects.

ROBOTICS CLUB
The Robotics Club of IIT Ropar

CODING CLUB
The Coding Club of IIT Ropar

MUN CLUB
The Model United Nations Club of IIT Ropar

CIM CLUB
The Computer Integrated Manufacturing Club of IIT Ropar

ZENITH CLUB
The Astronomy Club of IIT Ropar

DEBSOC
The Debating Club of IIT Ropar

PEHCHAAN EK SAFAR
A registered NGO, initiated by the students of IIT Ropar

MONOCHROME CLUB
The Graphic Designing Club of IIT Ropar

SOFTCOM CLUB
The Software Community of IIT Ropar

FINCOM CLUB
The Finance, Economic and Consulting Club of IIT Ropar

ESPORTZ CLUB
The Gaming Club of IIT Ropar

IOTA CLUSTER
The Artificial Intelligence Club of IIT Ropar

AEROMODELLING CLUB
The Aeromodelling Club of IIT Ropar

AUTOMOTIVE CLUB
The Automobile Club of IIT Ropar

ALANKAR
The Music Club of IIT Ropar

ARTURO
The Photography Club of IIT Ropar

EPICURE
The Culinary Club of IIT Ropar

D'CYPHER
The Dance Club of IIT Ropar

UNDEKHA
The Dramatics Club of IIT Ropar

VIBGYOR
The Fine Arts of IIT Ropar

ALFAAZ
The Poetry Club of IIT Ropar

ALPHA PRODUCTIONS
The Movie Production Club of IIT Ropar

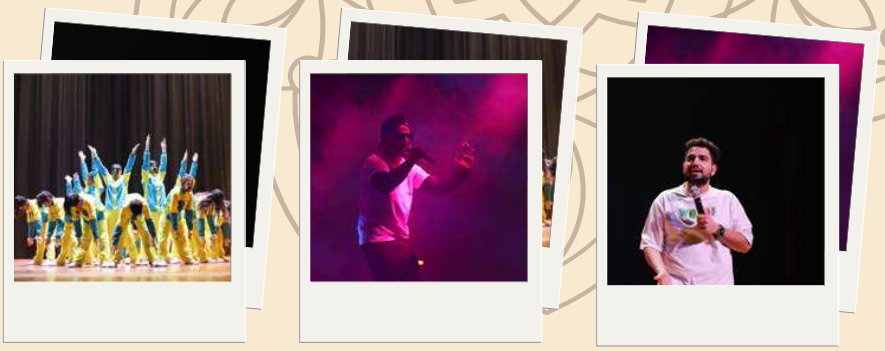
ENARRATORS
The Oratory Club of IIT Ropar

ENIGMA
The Quizzing Club of IIT Ropar

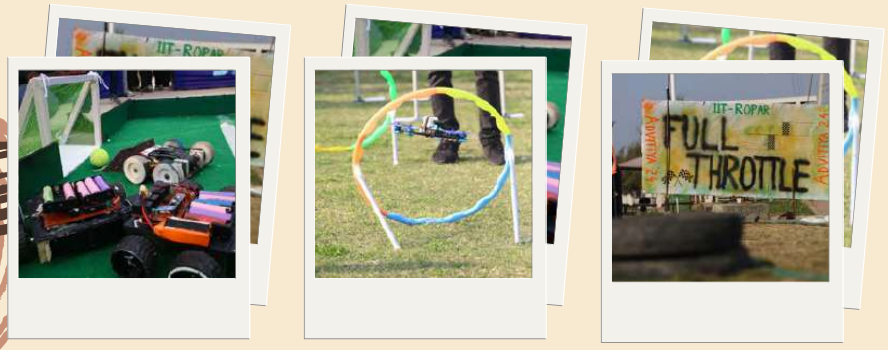
FILMSKI
The Movie Club of IIT Ropar

COLLEGE FESTIVALS

Zeitgeist
A VINTAGE VOYAGE



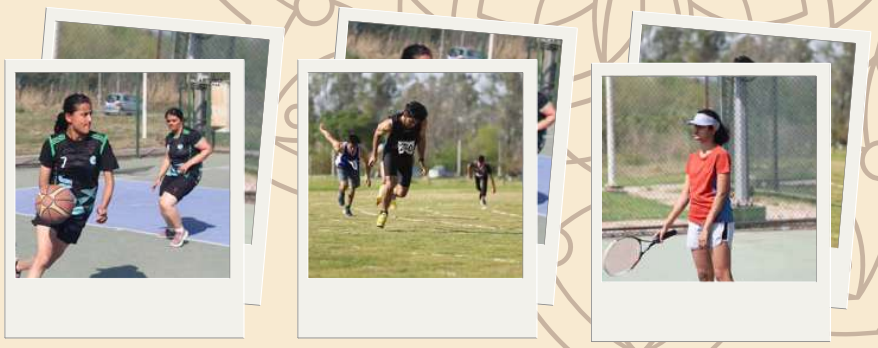
Deemed the largest Cultural Fest in Punjab-Haryana, Zeitgeist is a four-day extravaganza with a plethora of events in Singing, Dancing, Dramatics, Quizzing, Fashion, Oration, Poetry, Stand-up shows. It has grown over the years to include around 60 events, including Wall Graffiti, rap battles, dance battles and face painting. Different companies have used this fest as a platform to advertise their products. It features fun-filled and entertaining star nights that have previously featured the best that our entertainment industry has to offer such as Vishal-Shekhar, Ranjit Bawa, Mohit Chauhan, Gajendra Verma, Diljit Dosanjh, Olly Esse, Havas Guruhi, Samay Raina and Krisna .



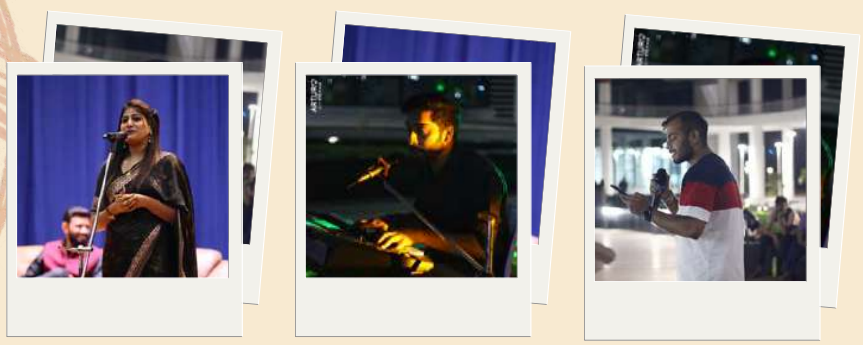
IIT ROPAR
ADVITIYA
NEAR THE FAR FUTURE

Advitiya has already evolved into a brand within five years of its inception. It encompasses various scientific and technical activities from fields like Coding, Aeromodelling, Robotics, Finance, Design and Entrepreneurship. This year's edition featured Humanoids, 3-D pen and various workshops such as Machine Learning, Cybersecurity, management, Robotics, IoT and Automobile mechanics. Advitiya also conducted Tech-Connect, organizing various event in multiple cities around India. With renowned speakers such as Dr. K Radhakrishnan (former Chairman of ISRO), Dr. R Chidambaram (DAE Homi Bhabha Chair Professor at BARC, Mumbai), Mr. Rakesh Malhotra (Founder, Luminous Industries) and Dr. Shankar Venugopal (Dean, Mahindra Technical Academy), Advitiya is an amazing learning experience for all students.

AAROHAN
SPORTS FEST, IIT ROPAR



Aarohan is the annual sports festival of IIT Ropar. It is a 3-day event that attracts a wide spectrum of youth from all over North India. The fest provides excellent infrastructure and grueling competition, motivating students to achieve the zenith of their respective performances. Sporting activities include athletics, badminton, basketball, chess, cricket, football, table tennis, tennis, volleyball, powerlifting, weightlifting, tug of war, paintball, poker, and arm wrestling. Notable personalities who have visited Aarohan include Mr. Surinder Singh, Arjuna Awardee - Olympic Gold Medalist and former captain of the Indian Hockey team, Sandeep Singh, Arjuna Awarded - former captain of the Indian hockey team), Pooja Kajla Kabaddi women player, Mr. Pardeep Narwal and Mr. Surender Nada (kabaddi player and part of the 2016 World Cup winning team).



malhar

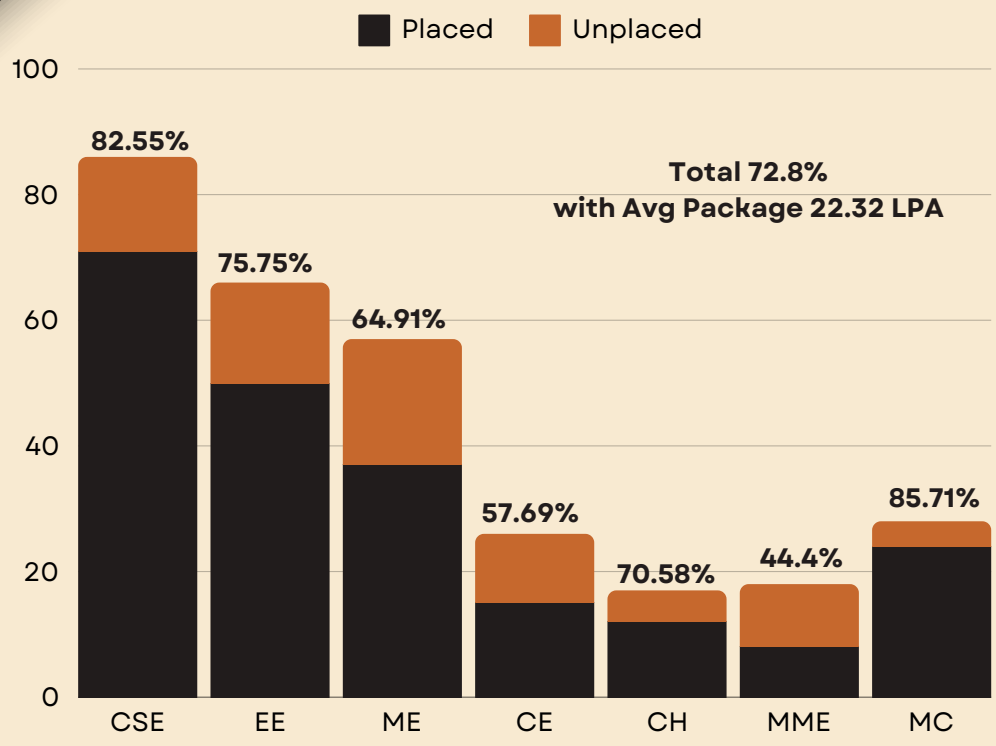
Malhar, the Literature Festival of IIT Ropar, is a journey that captures the canvas of human emotions and embarks on an odyssey of knowledge and creativity. Captivating competitions like Bidvertise, Quizzathons, Open mics and magnificent mehfils form the heart of the fest. Featuring a full-fledged book fair, introducing budding authors and their works, and redefining art forms, Malhar is the culmination of the relentless efforts put in by the IIT Ropar fraternity to uplift the literary prowess.

ESPORTZ CLUB
REVANCHE
FUTURISTIC TOUR TO GAMING

Hosted by the Esportz Club, 'Revanche' showcased the best of gaming culture, featuring exhilarating competitions such as treasure hunts, FIFA tournaments, Valorant showdowns, and an array of mobile game tournaments. From intense battles of strategy to adrenaline-fueled clashes of skill, every competition offered a platform for participants to showcase their prowess and forge unforgettable memories. As the first of its kind at IIT Ropar, 'Revanche' marks a milestone in our journey, uniting students from diverse backgrounds in a shared passion for gaming and competition.

UG-2024-25

PLACEMENT STATISTICS

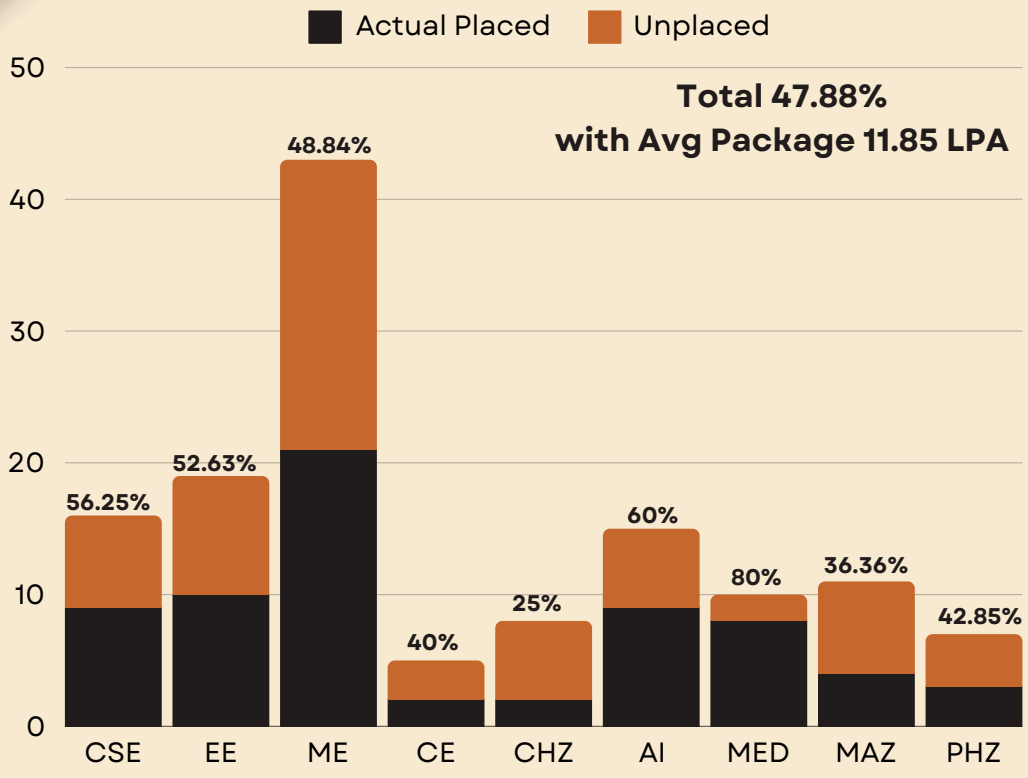


CSE : Computer Science & Engineering
EE : Electrical Engineering
ME : Mechanical Engineering
CE : Civil Engineering
CH : Chemical Engineering
MME : Metallurgical and Materials Engineering
MC : Mathematics & Computing

*Percentage shows the number of students placed out of the students participated in campus placements.

PG-2024-25

PLACEMENT STATISTICS



M.Tech.

CSE : Computer Science & Engineering
EE : Electrical Engineering
ME : Mechanical Engineering
CE : Civil Engineering
AI : Artificial Intelligence
MED : Mechanical Engineering Dual Degree

M.Sc.

CHZ : Chemistry
MAZ : Mathematics
PHZ : Physics

*Percentage shows the number of students placed out of the students participated in campus placements.

Previous Recruiters

CORE CIVIL

Bechtel,
Mahindra & Mahindra
Larsen & Toubro

CORE CHEMICAL

3M India Limited, Halliburton, Honeywell, HPCL & HPCL Research center, IOL Chemicals & Pharmaceuticals Ltd, SRF, Vivachem Intermediates Pvt Ltd, Air liquide, Atotech Group, Loreal, Larsen and Toubro, Helium Consulting, Tata Power, Fluor Daniel, Jindal Steel Works, Adani Group, Dassault, Linde, Intas Pharmaceuticals, GAIL

CORE ELECTRICAL

Texas Instruments, Micron, Intel, Nvidia, Qualcomm, Silicon Labs,Cadence, Mediatek, Synopsys India, Ceremorphics, Tata Digital, Singularity Dynamics, Fabheads Automation, Larsen & Toubro, Logic Fruit Technologies Pvt Ltd. Analog Devices, ST Microelectronics.

NON CORE

American Express, Coin DCX, FIITJEE, Flipkart, Deloitte,Accenture, ICICI, Futures First,Decimal Point Analytics, Quantile Analytics, Tiger Analytics, Perceptive Analytics, Tresvista, LTI, Classplus, Merilytics, ZS, Capgemini, EY, Neenopal, Sprinklr Tredence, LatentView Analytics, ImpactGuru, Udaan. work advantage, Decision Point, Affine, ArthMate,Tech indus one, MathonGo, KMK Consulting. KnowDis Data Science, Axtria, NationwithNamo,Kvantum, Field Assist, Kanvic Consulting

Previous Recruiters

Core Mechanical

Dassault Systemes, Sterlite, General Electric, Bajaj Auto, Maruti Suzuki, BPCL, BA, Loreal, JSPL, Mahindra and Mahindra, Siemens Energy, Tata Power, Cummins, Holliburton, BEL, Timetooth Technologies, HP, AM/NS, Altair, Tata Steel, ISGEC, Trident Group

M.Tech (CSE & AI)

Oracle, Qualcomm, Axtria India Pvt Ltd. Yellow AI, Tata Digital, HCL Technologies, Truminds Software Systems, X-epic Tech. Corporation Ltd., Ceremorphic Technologies Private Limited, Nurture Farm, JioSaavn

SDE Roles

Google, Sprinklr, ThoughtSpot, Oracle, De-Shaw, Urban company, Goldman Sachs, Flipkart, Amazon, Trilogy lab (Codenation), Nutanix, Jio Saavn, Walmart, Microsoft, Adobe, Salesforce, Swiggy, Zomato, Schrodinger, Uber, Rippling, Rakuten, Indeed, Media.net, MathWorks, Jaguar Landrover, Newzera, Arcesium, Chalo, Microsoft, UIDAI, Cashfree, Aista Networks

Microsoft

media.net

sprinklr

ORACLE

Mahindra

Mahindra & Mahindra Ltd

D E Shaw & Co

ARISTA

Infosys

SAMSUNG

Bharat Petroleum

energising lives

zomato

JAGUAR

LAND ROVER

WEB STAFF

SKILLFUL & HEARTFUL

M.Sc. (Chemistry)

Orchid,Intas Pharma, Autotech, SRF, Byjus, Eduspace, Lumenci, Jupiter Solar Power

Core Metallurgy

Tata Steel, JSW Steel Arcelor Mittal and Nippon Steel, Steel Strips Wheels Limited, Engineering. L&T ISGEC Heavy, Vardhman Special Steels

M.Sc. (Mathematics)

Aakash, Bridgei2i, Fabheads automation, Yellow.ai, ANZ Operations and Technology, Jungleworks, Class plus, Factwise, Fiitjee, Adloid, Rich panel ,Trilogy

TENTATIVE SCHEDULE

JULY 2024

Internship Talks and Screening Tests

AUGUST 2024

Internship Interviews

OCTOBER 2024

Placement Talks and Screening Tests

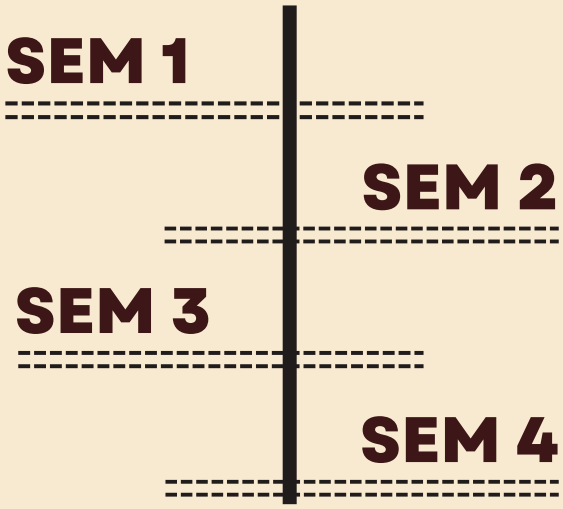
NOVEMBER 2024

Placement Interviews

Internship Timeline
B.Tech

Winter Break (1 Month)
Students can opt for a one month internship.
Students are encouraged for such internships.

Winter Break (1 Month)
Students can opt for a one month internship.
Students are encouraged for such internships.



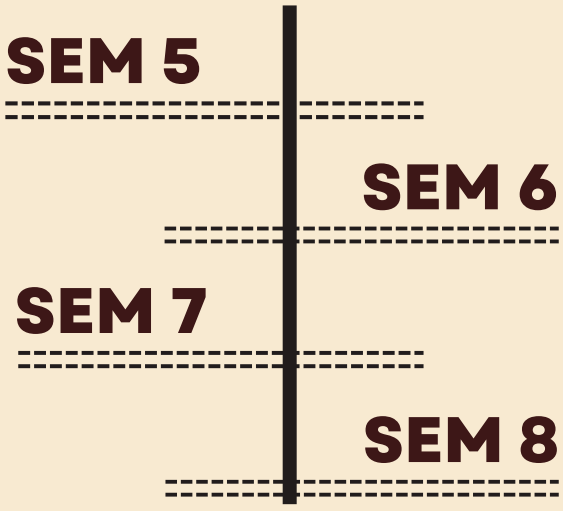
Summer Break (2 Months)
Students can opt for a two month internship.
Students are encouraqed for such internships.

Summer Break (2 Months)
Students can opt for a two month internship.
Students are encouraqed for such internships.

SUMMER VACATIONS

Winter Break (1 Month)
Students can opt for a one month internship.
Students are encouraged for such internships.

Additional Internship Program
(7th Sem as internship semester)
Six-month engagement of students with Industry or Research Organisations for students opting for Additional Internship.



Mandatory Summer Internship of minimum 40 working days after 6th Semester for students from all UG Programs.

Additional Internship Program
(8th Sem as internship semester)
Six-month engagement of students with Industry or Research Organisations for students opting for Additional Internship.

Internship Timeline M.Tech

SEM 1

Winter Break (1 Month) Students can opt for a one month internship. Students are encouraged for such internships.

SEM 2

SEM 3

SEM 4

Thesis Period

Maximum Time frame of engagement for M-Tech Students with Industry for a Joint Master Thesis.

Joint Master Thesis Program

PROPOSAL

Proposal for Joint Master Thesis (JMT) can be initiated by the faculty member in association with industry or proposal can be received from company and floated via CDPC through approval of the respective department DFRs i.e. Department Faculty Representatives.

SELECTION OF STUDENTS

Company Process-

Student is selected for JMT, as per the policy and selection process of respective company with knowledge of faculty advisor and CDPC

INFORMATION TO ACADEMICS

Application by Student-

Student to write application to Dean Academics PG for relaxation from Institute M.Tech Thesis and starting thesis in Industry. Application to forwarded by faculty advisor & HOD mentioning name of organization, name of faculty co-guide, timelines (period of JMT), topic of thesis, stipend amount with request to stop the MHE stipend (if being paid by company) and confirmation of completion of all the requirements for M.Tech. degree as per IIT Ropar norms

ACADEMIC NOTICE

To be issued by Academic department-

Academic section to release a notice to the student, faculty thesis advisor and HoD after receiving the application and verification of all the facts

TIME LINES

- The JMT projects process which will be initiated by CDPC will completed within the 1st year of the M.Tech batch.
- For any deviation from timelines the appropriate approvals must be taken from the Thesis guide, Batch Advisor, HoD of the respective department and Academic section.

Full Time/Intern Hiring Procedure

1. Invites sent by the CDPC office or Company can connect T&P Cell team
(contact details are available on the last page).

2. The HR manager will fill out an online Job Announcement Form (JAF) for FTE hiring to share the job profile offered to students. Online Internship Notification Form (INF) to be filled in case the company is interested in hiring an intern.

3. Based on the job profile being offered, interested students register for the FT or Intern hiring process and data of registered students is shared with the company.

4. Date for FTE or Intern hiring process is finalized with the mutual consent of the company and T&P Cell Team. 5. On-campus hiring process on the allocated date.

- **Pre-Placement Talk**
- **Online test**
- **Group Discussion and/or Interview**
- **Result Declaration**

CDPC, IIT Ropar is fully equipped with state-of-the-art audio-visual facilities, computer labs, interview and conference rooms for smooth conduct of the hiring process. The visiting team members from companies can be provided with a stay in the Institute Guest House (subject to availability). In addition, a pickup/drop facility can also be provided from Chandigarh Airport/Railway Station/ Bus Station, which is close to one hour from IIT Ropar.

CDPC TEAM

Dr. Sarang Gumfekar
Associate Dean (CEOA)
Email : deanceoa@iitrpr.ac.in
Phone : 01881-231016

Placement Officer

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Placement Officer
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Phone : 01881-232764

CDPC Office

Ms. Sheetal Bhola
Junior Assistant
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Phone : 01881-232465

CDPC Department Faculty Representatives

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Phone: 01881-232328

Dr. Narinder Singh
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Phone: 01881-232062

Dr. Jayaram Valluru
DFR - Chemical Engg.
Email : vjayaram@iitrpr.ac.in
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