

IIT ROPAR



INDIAN INSTITUTE OF TECHNOLOGY **ROPAR** 2023-24



Placement & Internship
Brochure



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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 one of the eight new IITs set up by the Ministry of Human Resource Development (MHRD), Government of India, 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 a variety of fields and also for 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 in its own campus and arranges for in collaboration with industry and other institutes. At present, the institute offers A Bachelor of Technology (B. Tech.) programme in the following disciplines: Chemical Engineering, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Mathematics and Computing Engineering, Mechanical Engineering and Metallurgy. This programme is spread over a period of eight semesters. Institute also offers an M.Tech programme in the following disciplines: DBME, Computer Science and Engineering, Electrical Engineering, Chemical Engineering, Civil Engineering and Mechanical Engineering.

Institute also offers M.Sc programme in the following disciplines: Physics, Chemistry and Maths. Institute also offers M.S programme in the following disciplines, Computer Science and Engineering and Electrical Engineering. In addition, the institute now offers a doctoral programme in the following disciplines, Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Mechanical Engineering and Metallurgical and Materials Engineering, Chemistry, Physics, Mathematics, Humanities and Social Sciences and Biomedical Engineering

FROM THE

DIRECTOR'S DESK



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 the access to high-quality technical education for young bright minds of India. Our first batch of students graduated with a B.Tech degree in July 2012. 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 with vast international exposure and state-of-the-art laboratories for the hands-on experience ensure that our students receive the best technical education.

PROF. RAJEEV AHUJA

At IIT Ropar, students are exposed to the most modern and up-to-date curriculum in accordance with the Washington Accord, contemporary developments in various disciplines of engineering/science, and internship experience in both national international companies/institutes of repute. In addition, we have a well-established Career Development and Placement Cell (CDPC) to take care of the professional development of the students by providing them in-house training in business communications, soft-skills, guiding them towards best internships and jobs that are available and act as a communication channel between Industry & IIT Ropar to have result-oriented Industry-Academia collaboration. Undoubtedly, the hard work done in the recent past has started reaping awards. For 2022, under the National Institute Ranking Framework by the Ministry of Human Resource Development, IIT Ropar stood 22th in the engineering category and 25th in QS World India Ranking. With this background, I whole-heartedly invite your organization to IIT Ropar Campus for recruitment of our B.Tech, M.Tech, MS(Research), M.Sc., and Ph.D. graduates. I am sure you will be able to recognize the availability of choice of bright & talented students with requisite skills that can solve your challenging engineering/scientific problems and add value to your organization.

ABOUT

CDPC

CAREER DEVELOPEMENT
& PLACEMENT CELL

The main aim of CDPC is to bring about all-around development. From equipping students with all the necessary skills required for getting a job to actually getting the job, CDPC does it all it links Industries to students and provides world-class facilities to students, supporting them in every possible way in their learning and development process.

CDPC has two wings
Professional Development Cell
Placement Cell

CDPC IIT Ropar seeks to establish long-term relationships with businesses and industries by participating in a variety of activities with them.

Synergy Meet, Annual Technical Festival, Panel Discussions, Innovation and Design Thinking workshops, and other types of professional Development activities. apart from conducting the regular placements and internship hiring processes. CDPC conducts Industry Lecture Series and Technology Day,

MESSAGE FROM

CHAIRPERSON

CDPC



DR. DHIRAJ K. MAHAJAN

It gives me great pleasure to invite you to visit Indian Institute of Technology Ropar campus for the 2023-24 placement and internship sessions. The IIT brand name is world-renowned and needs no introduction. In accordance with the high expectations from IITians, our students and graduates have earned numerous accolades from the organizations that they have worked with as interns or as employees, and am certain that your recruitment team will have a very productive and a satisfying visit to our institute.

The curriculum at IIT Ropar is designed to not only provide students with extremely strong technical knowledge but to also hone their personal development so that they become well rounded individuals who are an asset to any organization that they are a part of. Our students receive opportunities to learn not just through well designed classroom and laboratory activities but also through active participation in research and industrial collaboration projects, student societies and competitions, social service activities, and through exposure to entrepreneurship from an early stage. Apart from our exceptional students, our other great strength lies in our faculty, who have performed years of cutting edge research in highly reputed organizations around the world. With active mentoring from faculty members, our students are exposed to the latest technological developments in their field, enabling them to achieve their full potential. Once again, cordially invite you to our campus for placements and I look forward to continuing a fruitful relationship between your organization and IIT Ropar.

Dr Dhiraj K Mahajan
Chairperson, CDPC
IIT Ropar

MESSAGE FROM

VICE CHAIRPERSON CDPC



DR. REET KAMAL TIWARI

Dear Potential Recruiters,

I am pleased to inform you about the exceptional opportunities available for placement, internships, and Joint Master Thesis (JMT) programs at IIT Ropar. We take immense pride in being the first among all the IITs to introduce a 6-month internship program exclusively designed for our B.Tech students. This initiative aims to provide our students with real-world industry experience and enhance their professional skills before they embark on their careers. Furthermore, I am delighted to share that we have also introduced the Joint Master Thesis (JMT) program, marking another milestone in the history of IITs. This unique program allows our students to work

collaboratively with industry partners for their Master's thesis over the course of one year. By combining academic rigor with practical industry exposure, the JMT program offers an exceptional platform for our students to conduct cutting-edge research and contribute directly to the advancement of their respective fields. Through this program, our students gain a holistic understanding of the industry landscape while making valuable contributions to real-world challenges.

As potential recruiters, I 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 have the chance to tap into the immense potential and fresh perspectives that our students bring to the table. Together, we can foster a mutually beneficial relationship that drives innovation, growth, and excellence.

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. Should you require any further information or assistance, please do not hesitate to contact us.

Thank you for considering IIT Ropar as your recruitment destination.

Warm regards,

Dr. Reet Kamal Tiwari

Vice Chairperson, CDPC, IIT Ropar

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.

DEPARTMENT OF BIOMEDICAL ENGINEERING

DEMOGRAPHICS

M.Tech 11

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 centre. Going forward, the centre seeks collaboration with national and international universities/institutes and partnerships with industries to realise its goal. As far as academic programs are concerned, the department offers B.tech(minor), M.tech and PhD in Biomedical Engineering.

DOMAINS

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

FACILITIES

Medical devices and Instrumentation
Bone Implants Biomechanical
instrumentations
Non coding RNAs based diagnosis
Bioheat transfer
Cancer Diagnosis and Therapy
Cancer drug delivery
Immunology of Infectious Diseases
Biomechanics
Biofabrication and Bioprocessing

ACHIEVEMENTS

Research papers in highly reputed journals and conferences.

Students have obtained PMRF and Khorana scholarships.

CHEMICAL ENGINEERING

DEMOGRAPHICS

B.Tech (Internship) **23**

B.Tech (placement) **20**

M.Tech (placement) **6**

The Department of Chemical Engineering was established at IIT Ropar, with the introduction of B.Tech. and Ph.D. programs commencing in 2017, and the M.Tech. program in 2019. The students and research scholars are trained for industry as well as research, through a rigorous teaching philosophy. The students have undergone their internships in core chemical industries, management consulting, computational sciences, and had research experiences at renowned foreign and national research groups. The diversity of 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 roles.

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

ACHIEVEMENTS

In addition to peer-reviewed high impact research publications, faculty members are involved with consultancy projects with World Bank, Government of India, Government of Punjab and industry.

FACILITIES

- Chemical Reaction Engineering Lab
- Process Design and Engineering Simulation Lab
- Heat and Mass Transfer Lab
- Catalysis and Sustainable Energy Research Lab
- Soft Matter Engineering
- Multiscale Modeling Lab
- Process Dynamics and Control Lab

DEPARTMENT OF **CHEMISTRY**

DEMOGRAPHICS

M.Sc. (Placement) 22

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 80 PhD students and project fellows. The department is visited by a large number of experts and short-term students from India and abroad.

DOMAINS

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

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.

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

CIVIL ENGINEERING

DEMOGRAPHICS

M.Tech 30

B.Tech(Placement) 31

B.Tech(Internship) 30

The Civil Engineering department came into existence in 2016, and currently has a faculty strength of 15, and a student strength of 213 (B.Tech. -158, and Ph.D. - 55).

Further, the department also has M.Tech programs in areas of Water Resources and Environment, and Structural engineering and Geomechanics.

Aptly, 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.

DOMAINS

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

ACHIEVEMENT

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.

FACILITIES

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

COMPUTER SCIENCE & **ENGINEERING**

DEMOGRAPHICS

M.Tech CSE 20

M.Tech AI 14

B.Tech (internship) 89

B.Tech (placement) 92

The Department of Computer Science has close to 20 full-time faculty members. Faculty expertise encompasses areas of traditional computer science including robotics, networking, multimedia, processing, cloud computing and machine learning.

The department offers a variety of Masters and Doctoral programs including the recently initiated M.Tech in AI program. Students have also been running active communities like Coding Club, Software Community and AI Community.

DOMAINS

- Artificial Intelligence
- Hardware Theory
- OS
- Cloud Computing
- Computer Vision
- Social Computing
- Cyber Security
- Cryptography
- Computer Networks
- Internet of Things

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.
- CSE Department at IIT Ropar achieved 100% placements for UG and PG batch of 2021.

FACILITIES

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

ELECTRICAL ENGINEERING

DEMOGRAPHICS

M.Tech 37

BTech(Placement) 82

B.Tech(Internship) 86

The Department of EE at IIT Ropar is one of the pioneering departments which offers a strong environment for undergraduate, postgraduate education and research in the area of electrical engineering and related fields. The undergraduate programmes provides students with a strong background in the four broad areas of Electrical Engineering, namely Communication Technology, Control Technology, Electronics and Power & Energy. Strong 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 Antenna Microwave lab, Communication Research lab, VLSI wet lab, VLSI characterization lab, Smart Grid Lab and High Voltage Lab and High voltage, medium voltage equipment test bed.

DOMAINS

- Nanoelectronics
- Analog, RF and Mixed Signal VLSI Systems
- Signal and Image Processing
- Power Engineering
- Communications

ACHIEVEMENTS

Research 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 (10kHz to 44 GHz), High Voltage, Medium Voltage Equipment Test Bed.

HUMANITIES & SOCIAL SCIENCE

The Department of Humanities is multidisciplinary in nature 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 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 a wide variety of core and elective courses for undergraduate students in addition to Ph.D. courses for our graduate students. Notably, our alumni have been placed as faculty members at prestigious educational institutes such as the Central Institute of Indian Languages IIM-R and DTU.

Research

Decision 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, psycho/Neurolinguistics, Language and Cognition, Phonetics, Optimally Theory, Speech Processing, Natural Language Processing, Metaphysics of the self, Ethics and Value Theory.

FACILITIES

Language & Cognition Lab
Access to literature & publications from around the world

DEPARTMENT OF MATHEMATICS

DEMOGRAPHICS

MSc. 22

BTech(Placement) 32

B.Tech(Internship) 36

The Department of Mathematics at present has 16 full-time faculty members specializing in pure mathematics, mathematical finance, applied math., data science & statistics, and theoretical computer science. The dept offers courses supporting undergraduate programs in all disciplines at the institute, including B.Tech. Mathematics & Computing (MnC), M.Sc. Mathematics and Doctoral programs. The 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. Graduates of the department are well-suited for employment in various domains, including Data Science, IT, Software Development, Big Data Analytics, Finance & Economics, and ML & AI. Undergraduate students have the option of enrolling in a concentration program in domains such as Applied Maths, AI, Theoretical Computer Science, or Advanced Mathematics.

DOMAINS

- Data Science
- Applied Statistics
- Artificial Intelligence
- Mathematical Modelling
- Numerical Computations
- Mathematical Finance
- Number Theory and Cryptography
- Theoretical Computer Science
- Image Processing
- Pure Mathematics
- Computational Fluid Dynamics
- Algorithms

ACHIEVEMENTS

DST-SERB, NBHM, CSIR, INSPIRE, Indo-Russian Grants to Faculty Members, Research collaboration with over 50 prestigious institutions spanning across 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, PhD graduates secure Postdoctoral and faculty positions in highly ranked universities across the globe, MSc graduates are being admitted to prestigious universities in India and overseas to pursue their PhD or MS degrees. The department is actively involved in organizing international conferences and short-term courses

FACILITIES

- High Performance Computing
- GPU Computing
- Mathematical Softwares Based Lab
- Fluid Dynamics lab
- Mathematical Biology Lab

MECHANICAL ENGINEERING

DEMOGRAPHICS

B.Tech (placement) 70

M.Tech (placement) 55

B.Tech (internship) 72

The Department of Mechanical Engineering has a dynamic curriculum which integrates the teaching of engineering science fundamentals along with modern industrial practices.

It helps our faculty, alumni and students bring out their talent, passion and interests in the exploration of manufacturing and maintenance art, in designing next-generation equipment, engines, fuels, robotic mechanisms, bio-inspired engineering and much more. Regular interaction with industry through collaborative projects, course requirements and general discussions on advancements in technological aspect develop an environment closer to the practical essence of engineering.

DOMAINS

Thermal Engineering
Design Engineering
Manufacturing
Engineering
Computational
Mechanics

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

METALLURGICAL & MATERIALS ENGINEERING

DEMOGRAPHICS

B.Tech (placement) 19

B.Tech (Internship) 24

The Department of Metallurgical and Materials Engineering at IIT Ropar started in November 2017 by upgrading the centre for Materials and Energy Engineering. The newly established department started offering a four-year B.Tech program and PhD program from the academic year 2018-19. The faculty team at the department is highly qualified with vast and diverse experience in the field of Metallurgical and Materials Science.

DOMAINS

- Physical Metallurgy
- Mechanical Metallurgy
- Process Metallurgy
- Functional Materials
- Device design and Nanotechnology

FACILITIES

- Metallography lab
- Heat treatment lab
- Energy and Environmental lab
- Nanostructured and Optical materials lab
- IDEA lab (Interface Dynamics and Energetics of alloys)
- Steel Research lab

DEPARTMENT OF **PHYSICS**

DEMOGRAPHICS

MSc. 20

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. M.Sc. (Research) 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 area of physical sciences.

DOMAINS

- Optics
- Nuclear Energy
- String Theory
- Condensed Matter

ACHIEVEMENTS

Dr. Mukesh Kumar of the Department of Physics was awarded the prestigious Fulbright-Nehru Academic and Professional Excellence Fellowship in 2020-2021 by the USIEF.

Department received grant from DST-SERB, CSIR, INSA, DST-RFBR, DST-ICPS, BRNS, DRDO, MHRD, DST-FIST(90 Lakhs).

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.

Dr. Rajesh V. Nair received Swarna Jayanti Fellowship in Physical Science.

JOURNALS

37 Journals were published

RESEARCH

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

17

OnGoing MoUs



Internship Timeline

B.Tech

SEM 1

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

SEM 2

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

SEM 3

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

SEM 4

SUMMER VACATIONS

SEM 5

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

SEM 6

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

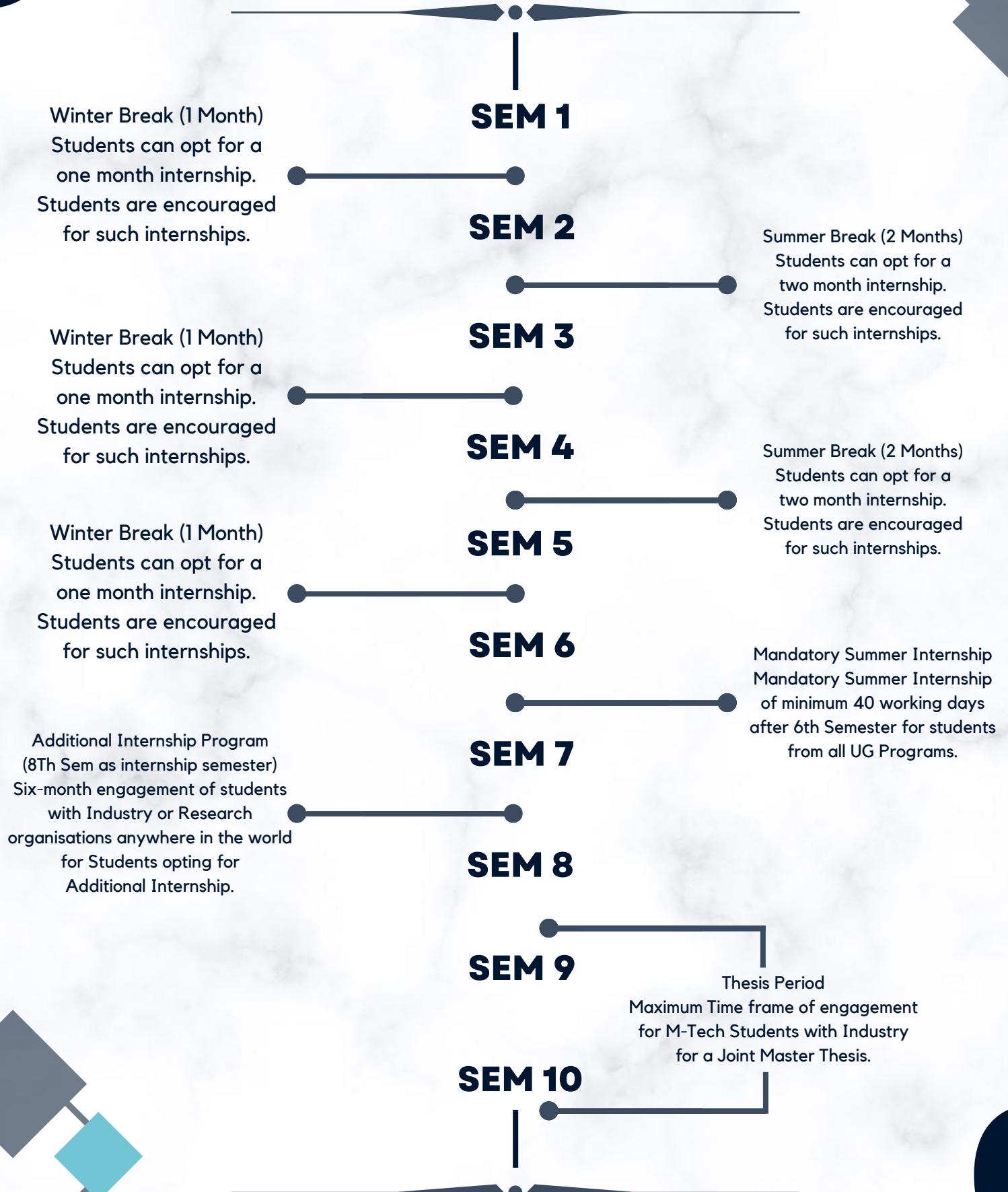
SEM 7

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

SEM 8

Internship Timeline

B.Tech + M.Tech Dual



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

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 be 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 be 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.

Academic Programs

Undergraduate Programs

IIT Ropar offers a variety of academic programmes for students with a wide range of backgrounds. Admission to many of these programmes are based on the students' performance in national level tests / entrance examination followed by interviews at IIT Ropar in some cases.

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

- **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 Programs

IIT Ropar offers *M.Tech*, *M.S* & *Ph.D.* across streams giving emphasis on high-quality research evident by our position in QS Indian Ranking 2021. 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 the skills of students to pursue with 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

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.

Non-STEM

We at IIT Ropar take student's all round development seriously. Compulsory courses like History of Technology broaden students' perspective 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, Brand Management, Sustainability, 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

To strengthen entrepreneurship & start-up ecosystem in IIT Ropar, the institute has been running a technology business incubator at its campus, which is an independent Section 8 Company, registered as IIT Ropar Technology Business Incubator Foundation (TBIF). The incubator caters to the incubation and mentoring needs of the future entrepreneurs of IIT Ropar and the Nation.

Total Startups incubated-14

Notable Startups:-

- Awign Enterprises Private Limited
- Greedy Game Media Pvt. Ltd
- Omnipresent Robot Tech Pvt Ltd
- ScratchNest
- Augniscent
- Yoboshu

E-Cell

E-Cell aims to cultivate the entrepreneurial spirit among the students by inculcating the spirit of resilience, risk taking and dedication, additionally motivating them to use the innovative and ethical business practices to make a global impact. Over the years we have had notable speakers including Mr Hans Germeroad, Mr Harit Mohan, Mr Ajay Gupta, IPS Ravi Kumar to mention a few.

Event Visited-

1. TiEcon, ISB Mohali
2. E-Summit IIT Bombay
3. Inter IIT Tech Meet
4. Startup Masterclass, Delhi
5. Events Conducted-
6. Idea Pitching Bootcamp in association with Startup India
7. Intern fair
8. Business Model competition 9.) Started & Mentoring Five E-Cells of nearby colleges

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.

It 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

Major Events

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.

Leadership Summit

Leadership Summit 2022 is an initiative by the student community of IIT Ropar to address some significant issues existing in academia that are not only significant but also have a substantial impact on our lives. Being a resilient academic community, IIT Ropar is taking the initiative to re-establish this culture by blending the enthusiasm and creativity of the UG students with the knowledge and experience of PG students in pursuit of great innovations

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

ZENITH CLUB

The Astronomy Club of IIT Ropar

CIM CLUB

The Computer Integrated
Manufacturing 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

The Graphic Designing Club of IIT Ropar

SOFTCOM

The Software Community of IIT Ropar

FINCOM

The Finance, Economics 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

DCYPHER

The Dance Club of IIT Ropar

UNDEKHA

The Dramatics Club of IIT Ropar

VIBGYOR

The Fine Arts Club of IIT Ropar

ALFAAZ

The Poetry Club of IIT Ropar

Alpha Productions

The Movie Production Club of IIT Ropar

ENNARATORS

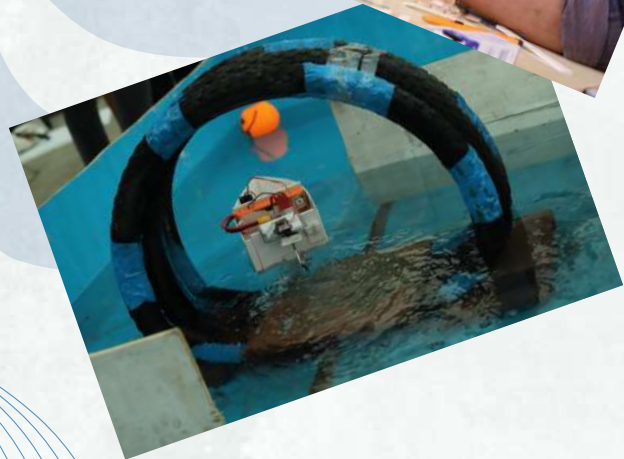
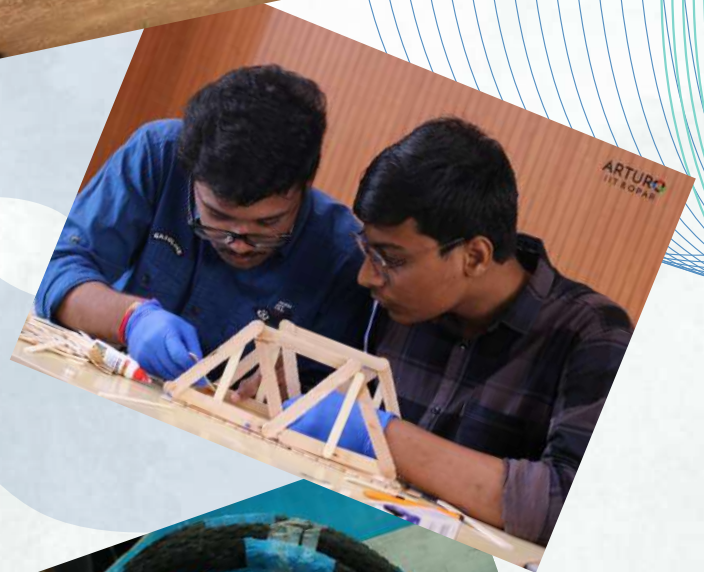
The Oratory Club of IIT Ropar

ENIGMA

The Quizzing Club of IIT Ropar

FILMSKI

The Movie Club of IIT Ropar



College FESTIVALS

ZEITGEIST

Deemed as the largest Cultural Fest in Punjab-Haryana, Zeitgeist is a 4 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 and Havas Guruhi.

ADVITIYA

Advitiya has already evolved into a brand within five years of its inception. It encompasses a wide range of scientific and technical activities from fields like Coding, Aeromodelling, Robotics, Finance, Design and Entrepreneurship. This year's edition featured Humaniods, 3-D pen and various workshopssuch as Machine Learning, Cybersecurity, management, Robotics, IoT and Automobile mechanics. Advitiya also conducted Tech-Connect, organising 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.

AAROCHAN

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 gruelling competition, motivating students to achieve the zenith of their respective performances. Sporting activities include cricket, badminton, volleyball, basketball, football, tennis, table tennis, tug of war, paintball, poker, and arm wrestling. Notable personalities who have visited Aarohan include Mr. Sandeep Singh (ex-captain of the Indian hockey team) and Mr. Surender Nada (kabaddi player and part of the 2016 World Cup winning team).

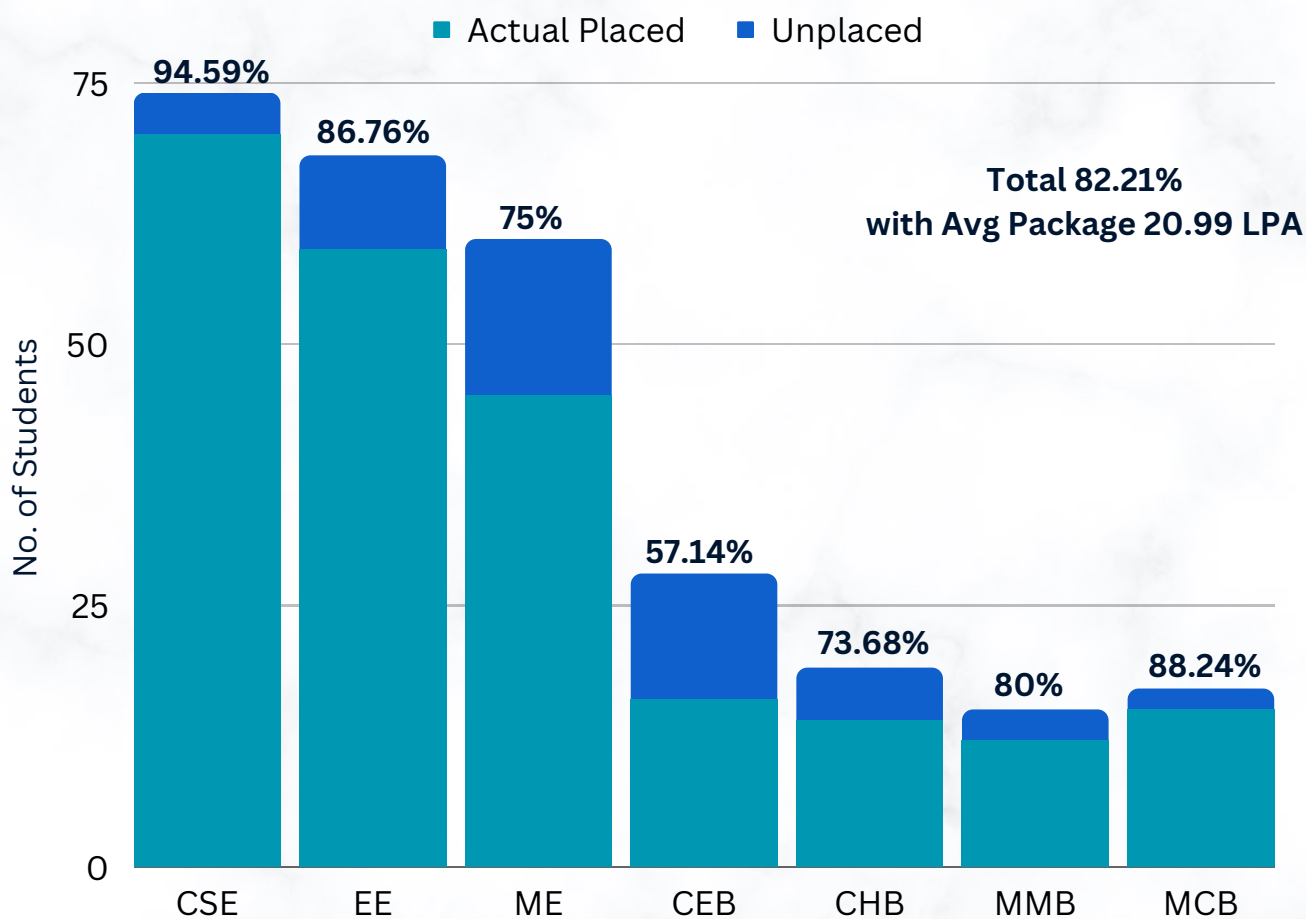
Placement Procedure

1. Invites sent by CDPC office or Company can connect T&P Cell team. (contact details available on last page)
2. An online Job Announcement Form (JAF) for FTE hiring to be filled by HR manager to share the job profile being offered to students. Online Internship Notification Form (INF) to be filled in case company is interested in hiring intern
3. Based on 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 finalized with mutual consent of 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 stay in the Institute Guest House (depending on the availability). In addition, pickup/drop facility can also be provided from Chandigarh Airport/Railway Station/ Bus Station which is close to one hour away from IIT Ropar

PLACEMENT STATISTICS

UG 2022-23

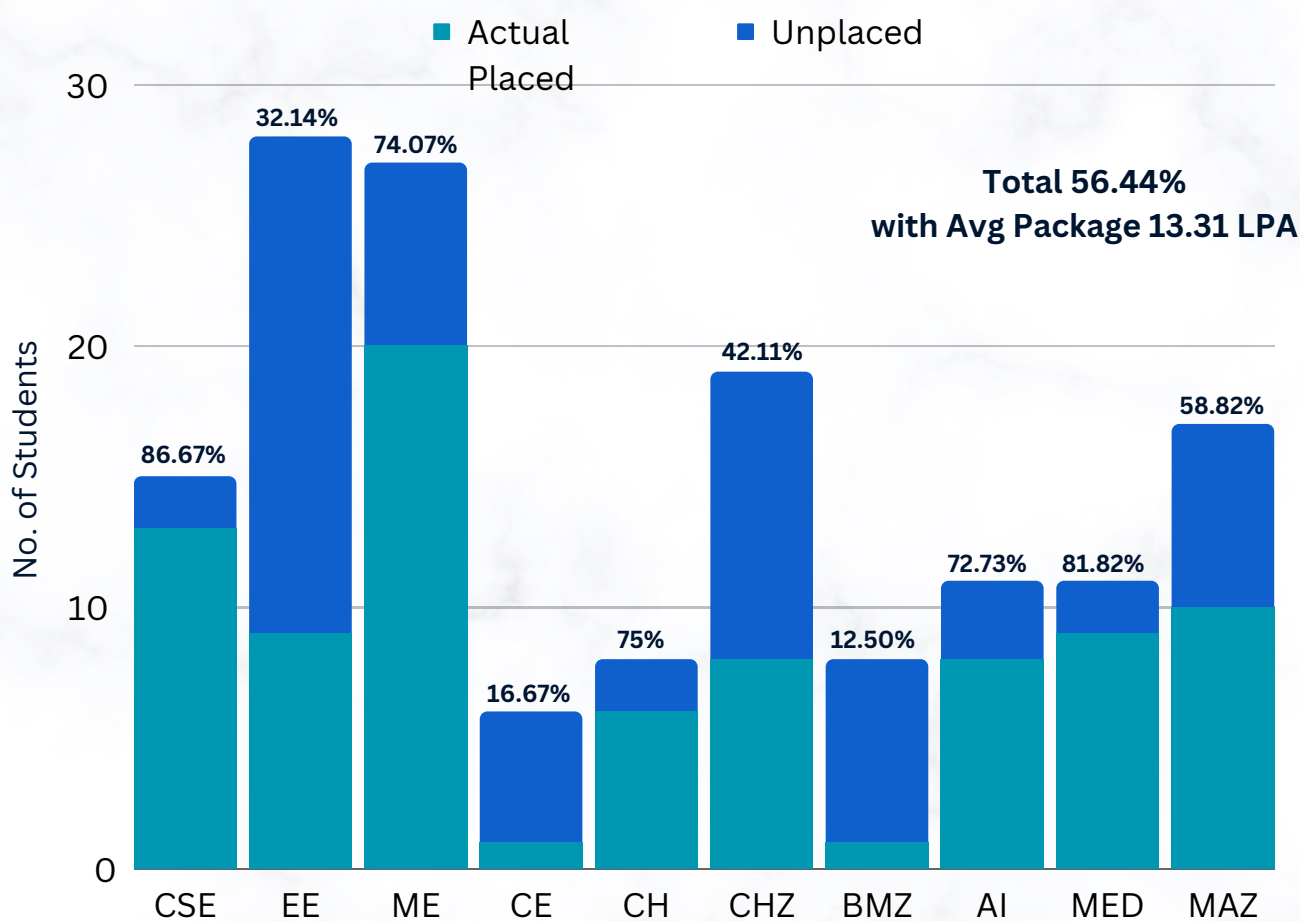


CSE : Computer Science & Engineering
EE : Electrical Engineering
ME : Mechanical Engineering
CEB : Civil Engineering
CHB : Chemical Engineering
MMB : Metallurgical and Materials Engineering
MCB : Mathematics & Computing

*Percentage is showing Actually Placed from the Students Registered.

PLACEMENT STATISTICS

PG 2022-23



CSE : Computer Science & Engineering
 EE : Electrical Engineering
 ME : Mechanical Engineering
 CE : Civil Engineering
 CH : Chemical Engineering

AI : Artificial Intelligence
 MED : Mechanical Engineering Dual Degree
 BMZ : Biomedical Engineering
 CHZ : Chemistry
 MAZ : Mathematics

*Percentage is showing Actually Placed from the Students Registered

Previous Recruiter

CORE CIVIL

- Adani
- Mahindra & Mahindra
- L&T

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.

CORE CHEMICAL

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

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, Sprinkl'r Tredence, LatentView Analytics, ImpactGuru, Udaan. work advantage, Decision Point, Affine, ArthMate, Tech indus one, MathonGo, KMK Consulting. KnowDis Data Science, Atria, NationwithNamo, Kvantum, Field Assist, Kanvic Consulting

adani

 NVIDIA

Google

 TEXAS INSTRUMENTS

Uber

AMERICAN EXPRESS

Walmart 
Save money. Live better.

Qualcomm

 ICICI Bank

Honeywell

 SILICON LABS

JINDAL 
STEEL & POWER

 ANALOG DEVICES
AHEAD OF WHAT'S POSSIBLE™

accenture

 flipkart.com

Deloitte.

 Classplus

SYNOPSYS®

 MathWorks®

 DASSAULT SYSTEMES

Previous Recruiter

CoinDCX



amazon



DE Shaw & Co

media.net

ORACLE®



TRILOGY INNOVATIONS



M.Sc. (MATHEMATICS)

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

M.Sc. (CHEMISTRY)

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

Core Mechanical

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

Software Development roles

Google, Sprinklr, ThoughtSpot, Oracle, De-Shaw, Urban company, Goldman Sachs, Flipkart, Amazon, Trilogy lab (Codensation), 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

Core Metallurgy

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

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ROPAR

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