



Indian Institute of Technology Ropar

PLACEMENT AND INTERNSHIP BROCHURE

2022 - 2023



CDPC Career Development &
Placement Cell

Motto

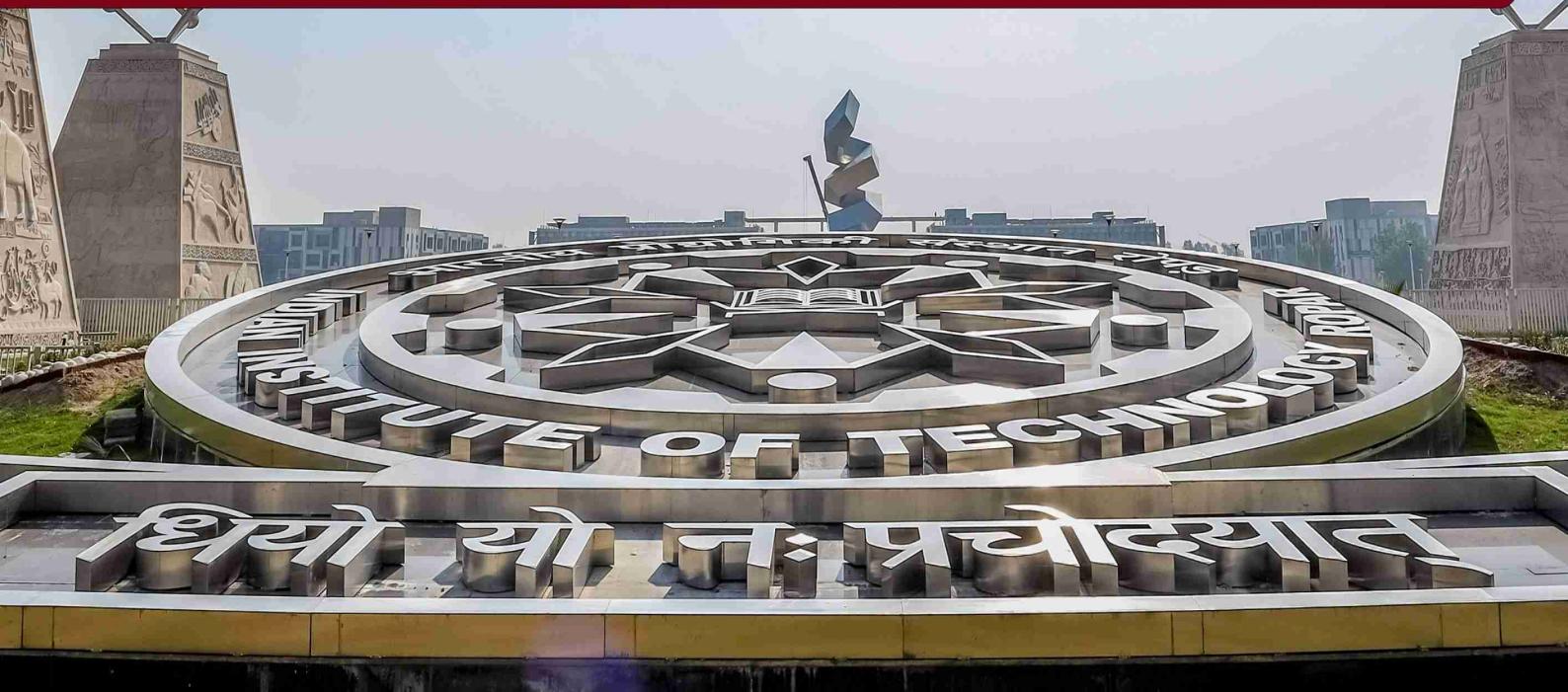
धियो यो नः प्रचोदयात्
(Deploy our Intellect on the Right Path)

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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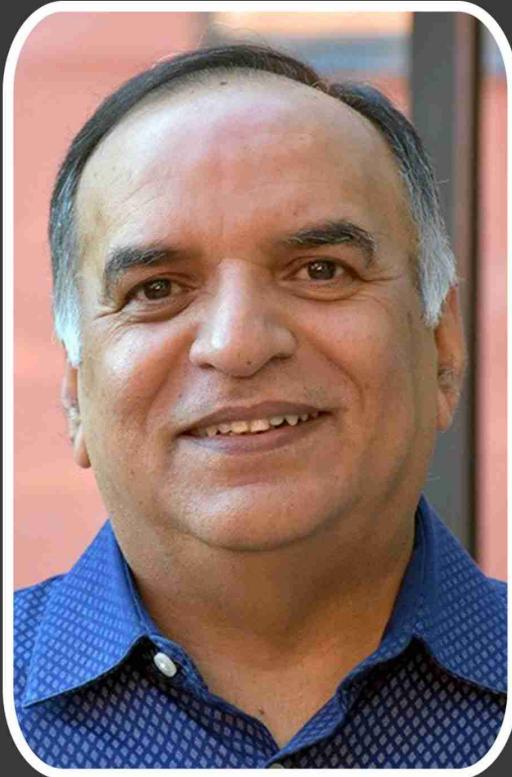
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About IIT Ropar

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 expand 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, and in the last eleven years, 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 ensures that our students receive the best technical education.

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 and 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 2021, under the National Institute Ranking Framework by the Ministry of Human Resource Development, IIT Ropar stood 19th in the engineering category and 68th in THE Asia University Rankings 2022.

With this background, I whole-heartedly invite your organization to the 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."

Prof. Rajeev Ahuja
Director, IIT Ropar

About CDPC

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.

CDPC conducts Industry Lecture Series and Technology Day, 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.

Message From Chairperson, CDPC



It gives me immense pleasure to invite your reputed company to visit Indian Institute of technology Ropar campus for the 2022-2023 placement and internship session introduction. In accordance with the high expectations from IITians, our students and graduates are proud of their Alma Mater and have earned numerous accolades from the organizations that they have worked with as interns or as employees, and I am certain that your recruitment team will have a very productive and 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 collaborated 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 are very well qualified. 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, I cordially invite you to our campus for placements and I look forward to continuing a fruitful relationship between your organization and IIT Ropar.

Message From Vice Chairperson, CDPC



It brings me a great deal of joy to invite you to visit the Indian Institute of Technology Ropar campus for the 2022-23 placement and internship sessions. IITs are amongst the premium institutes in India and are known for their excellence. Carrying forward the legacy of IITs our students have earned many laurels from the organizations that they have worked with as interns or as employees, and I assure you that your recruitment team will get highly satisfying results. IIT Ropar focuses on the all-round development of every student, along with a very comprehensive curriculum, students are given the best possible facilities for their personality development, and they are encouraged to participate in research activities and industrial projects, and entrepreneurship. To mentor and guide our students, we have very highly qualified and talented faculty with exceptional pedagogy. With the able guidance from our faculty members, our students are exposed to the latest technological developments in their field, enabling them to achieve their goals. Once again, I humbly extend an invitation to you to join our campus for this placement session and I look forward to continuing a pleasant relationship between your organization and IIT Ropar.

Dr. Reet Kamal Tiwari
Vice Chairperson, CDPC
IIT Ropar

Departments

- Chemical Engineering
- Civil Engineering
- Computer Science and Engineering
- Chemistry
- Department for Biomedical Engineering (DBME)
- Electrical Engineering
- Humanities
- Mathematics
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Physics

Chemical Engineering

Demographics (Students Available)

B.Tech(Placement) 20

M.Tech(Placement) 8

B.Tech(Internship) 20

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

Catalysis and Reaction Engineering
Energy and Environment
Multiscale Modeling
Soft Matter Engineering
Transport Phenomena & Thermodynamics
Computational Fluid Dynamics

Achievements

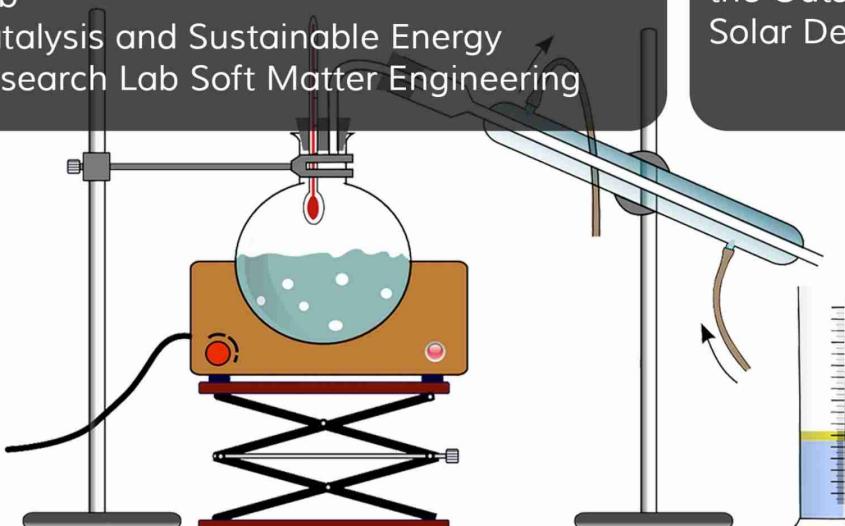
Students from the department shined in variety of fields with selection in IIM-C, Foreign MS , MITACS and in GATE examination and awarded with Sunny Oberoi Leadership Award.

The faculty members awarded with Sunny Oberoi Excellence in Teaching Award 2021 and SWE WE Local 2022 Engaged Advocate Award.

The efforts made by faculty have been recognized by a "Honorable Mention" for the Outstanding Faculty Advisor Award by Solar Decathlon India

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



Civil Engineering

Demographics
(Students Available)

B.Tech(Placement) 34

M.Tech(Placement) 16

B.Tech(Internship) 35

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.”

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.

Facilities

CAD Lab
BIM Lab
Soil Water Plant Lab
Environmental Engineering Lab
Geomatics
Engineering Lab
Geotechnical Engineering Lab
Hydraulics Engineering Lab

Domains

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

Computer Science and Engineering

Demographics (Students Available)

B.Tech(Placement) 82

M.Tech CSE(Placement) 16

B.Tech(Internship) 85

M.Tech AI(Placement) 18

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 the Coding Club, Software Community and AI Community.

Domains

Artificial Intelligence, Hardware Theory, OS, Cloud Computing, Computer Vision, Social Computing, Cyber Security & Cryptography

Achievements

Our faculty have been awarded research grants from DST-SERB, NPTEL and DST(CSRI). They have also been awarded and recognised at various conferences globally.

Facilities

High Performance Computing Facility, Image Processing, Security, Multimedia, Analytics, Statistical Artificial Intelligence and Machine Learning Labs

Computer Science and Engineering Department at IIT Ropar achieved 100% placements for UG and PG batch of 2021.

Electrical Engineering

Demographics
(Students Available)

B.Tech(Placement)	74
M.Tech(Placement)	29
B.Tech(Internship)	82

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 programme 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.

Domains

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

Achievements

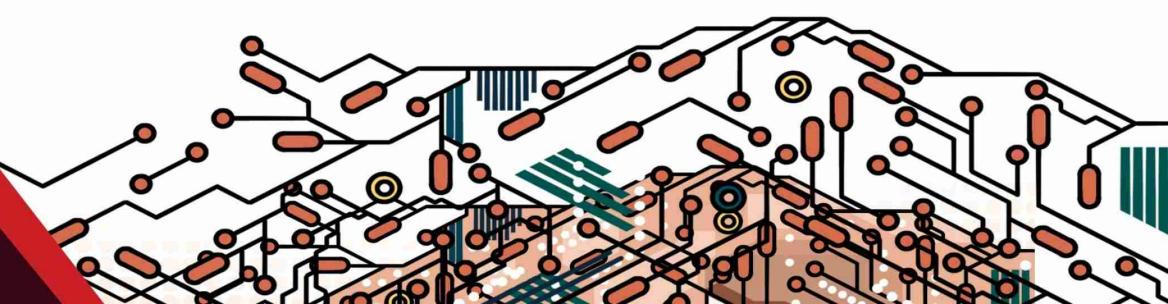
Research papers in highly reputed journals and conferences. Our faculty were also awarded research grants from various national agencies which include DST, SERB and various industries including BEL, BHEL etc.

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.

Communication and Signal Processing

Research Facilities

AMR Lab, Communication Engineering Lab, Computer Vision and Pattern Recognition Lab, Facilities: Anechoic Chamber, Scara Robot, Chip Bonding Machine, MITS, BenchTop VNA (100MHz to 43.5 GHz), Handheld VNA (10kHz to 44 GHz).



Power Engineering

Research Facilities

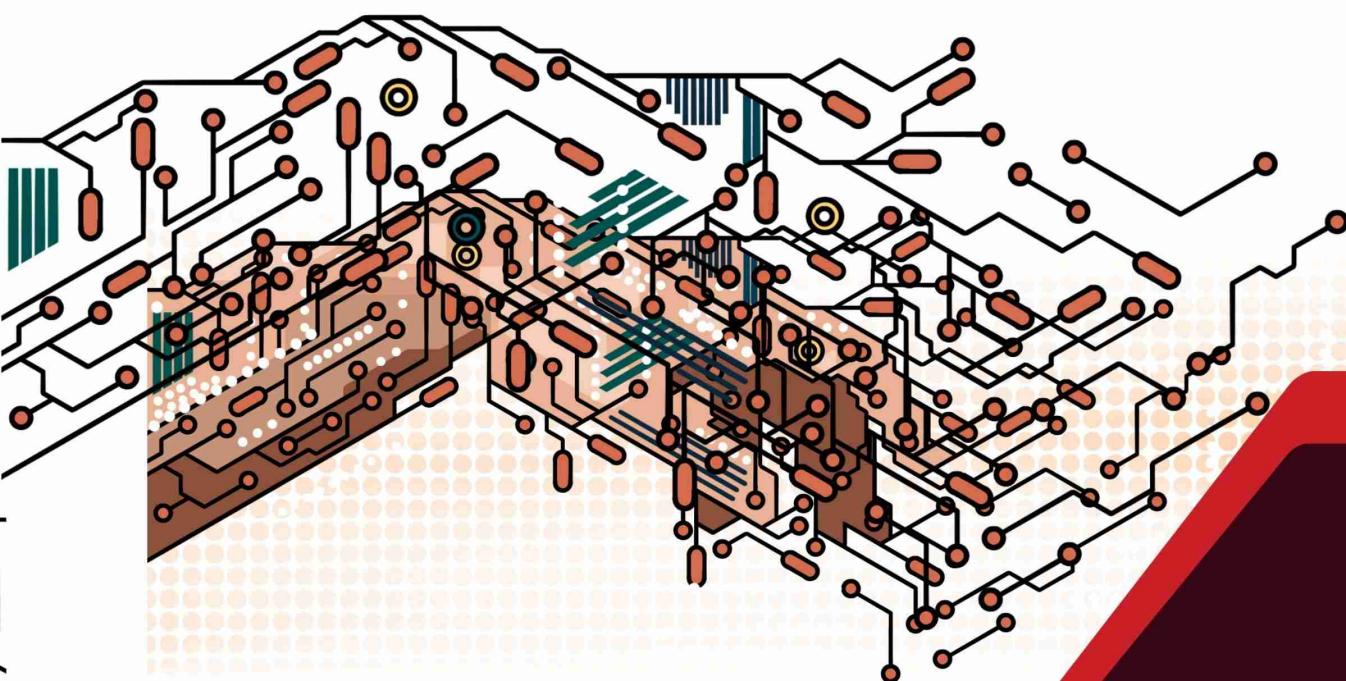
A test bed to test the functionalities (both Power systems and Power electronics aspects) of the renewable integrated Micro grid, a sophisticated test bed to test the various drives for electrical vehicle applications, a grid connected solar inverter developed in the lab from scratch to deliver power upto 20kW, a dual active bridge setup to mimic high frequency transformer, High voltage, well equipped high voltage lab includes 10kV Nanosecond HV Pulse Generator, Space Charge & Leakage Current Setup, Polymer and Nanocomposite Preparation, Hydraulic Press, Extruder, Dielectric Spectroscopy, Thermal Imaging Camera.

Electronics and VLSI

Research Facilities

Design Simulation Lab (Uses software Sentaurus Device CAD), Circuit Simulation Lab (Use Spice for simulation), Low Power Design Lab (Uses Xilinx Vivado suite and Xilinx Vertex-5 FPGA boards and ZED boards).

Hardware instruments : Cascade DC probe station.



Mechanical Engineering

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 aspects develop an environment closer to the practical essence of engineering.

Demographics (Students Available)

B.Tech(Placement)	63
M.Tech(Placement)	27
B.Tech(Internship)	71

B.Tech + M.Tech(Placement)	11
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Facilities

Material Structures and Equipment Lab
Mechanics of Materials Lab
Surface Engineering Lab
Thermofluidics Research Lab
Cold Spray Facility
Micro Machining and Monitoring Lab
Nanoscale Thermophysics and Solar Energy (NTSE) Research Lab
3D Printing Facility

Engine Testing Facility
Robotics Lab
Fatigue Testing
Design Research Laboratory
Mechanics of Advanced Materials Lab
HaSo TuM Laboratory
Modular and Intelligent Robotics Lab
Multifunctional- Materials Structures and Equipment Lab

Domains

Thermal Engineering
Design Engineering
Manufacturing Engineering
Computational Mechanics



Metallurgy and Materials Engineering

Demographics
(Students Available)

B.Tech(Placement) 20

B.Tech(Internship) 19

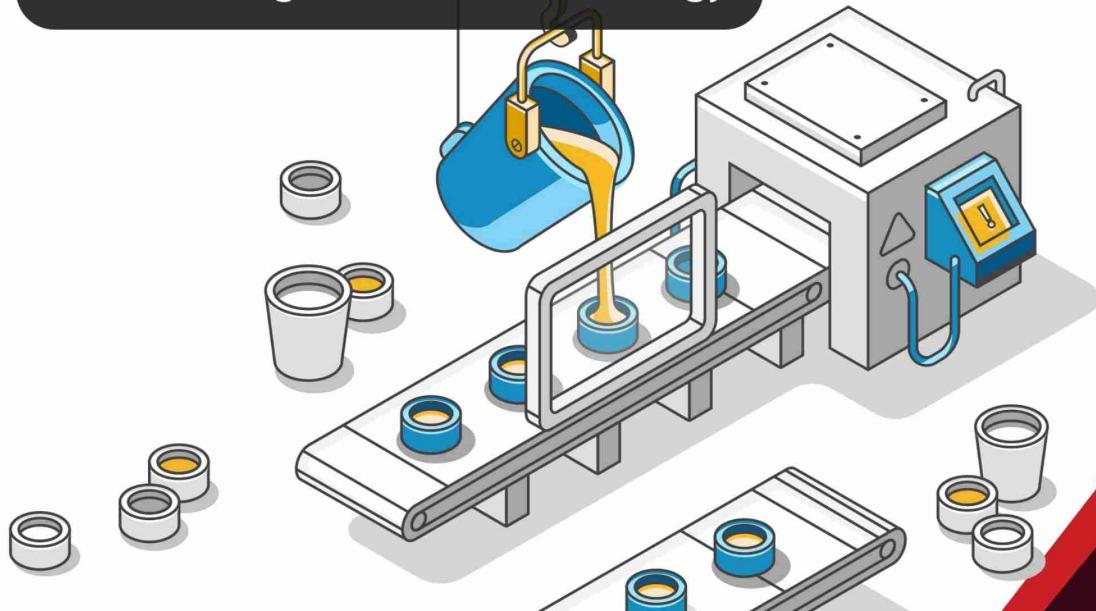
The Department of Metallurgical and Materials Engineering at IIT Ropar started in November 2017 by upgrading the Center for Materials and Energy Engineering. The newly established department started offering a four-year B.Tech. program and PhD program from the academic year 2018-19. The faculty team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

Facilities

Metallography Lab
Heat Treatment Lab
Energy and Environmental Lab
Nanostructured and Optical Materials Lab
IDEAs Lab (Interface Dynamics and Energetics of Alloys)
Steel Research Lab

Domains

Physical Metallurgy
Mechanical Metallurgy
Process Metallurgy
Functional Materials
Device Design and Nanotechnology



Physics

Demographics
(Students Available)

M.Sc(Placement) 26

The Department of Physics at IIT Ropar aims to deliver high-level teaching methodologies and top-notch research in advanced areas of experimental & theoretical physics. Presently, the department supports the undergraduate Program with a wide variety of courses. It offers a dedicated program of the institute and Post graduate 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 & technology. Doctoral candidates and postdoctoral fellows are mentored in areas of physical sciences.

Domains

Optics
Nuclear Energy
String Theory
Condensed Matter
Nanoparticles

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.

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

Journals

37 Journals were published.

Department of Biomedical Engineering

Demographics
(Students Available)

M.Tech(Placement) 14

The biomedical engineering department works towards providing solutions to healthcare challenges faced by the nation, and globally, by encouraging collaborative research with various academic and research institutes, industry and healthcare providers. The department also promotes healthcare and medical device entrepreneurship. A diverse group of faculty members with global exposure and a multidisciplinary program structure offer students a unique learning experience. Our curiosity driven program trains students to become global leaders in the field. General discussions, interactive conferences and hospital/industrial visits related to technological advancements have been built into the program to provide a habitat for application-based learning.

Domains

Medical Devices
Medical Imaging
AI in Healthcare
Bio-Photonics Xr
Cancer Biology
Immunology
Biomechanics
Biomaterials and Regenerative

Facilities

Medical devices and Instrumentation
Bone Implants Biomechanical instrumentation
Non-coding RNAs-based diagnostics
Bioheat Transfer
Cancer Diagnosis and Therapy
Cancer drug delivery
Immunology of Infectious Diseases
Biomechanics
Biofabrication and Bioprocessing

Achievements

- Our faculty has been awarded various grants from DST, BIRAC, AICTE, SERB ECRA and working on different projects with various industries, hospitals and reputed universities.
- Members of the department have been granted various patents and published in highly reputed journals.
- Our students have been awarded various prestigious fellowships/scholarships such as Khorana scholarship, PMRF, DAAD fellowship.

Chemistry

**Demographics
(Students Available)**

M.Sc(Placement)

23

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 Syntheses, 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 exist at the department and institute levels. The department is served by 14 faculty, an INSPIRE fellow, 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

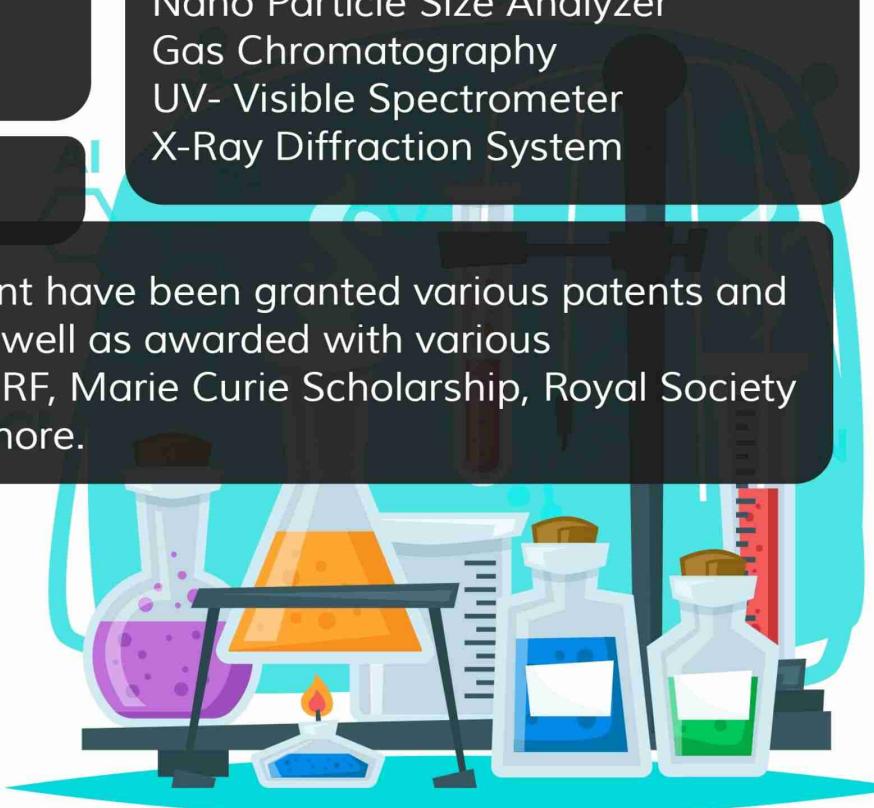
Organic Chemistry, Drug delivery
Inorganic and Material Chemistry
Polymer, Sensor
Physical and Theoretical Chemistry
Energy harvesting
Battery
Supercapacitor

Facilities

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

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.



Humanities

The Department of Humanities is multidisciplinary in nature and hosts several subject disciplines such as Economics, Literature, Linguistics, Management, Psychology, Philosophy, Ps Sociology and Cognitive Science. It provides engineer 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. Across disciplines, the department offers. 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, Optimality Theory, Speech Processing, Natural Language Processing, Metaphysics of the Self, Ethics and Value Theory

Research Facilities

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



Mathematics

Demographics (Students Available)

M.Sc (Placement)	22
B.Tech (Internship)	33
B.Tech (Placement)	22

The department of Mathematics supports the undergraduate program with a wide variety of courses. It offers a dedicated undergraduate program BTech of Mathematics and Computing that prepares graduates well for advanced degrees and careers in research and development in financial institutions and software industries. The curriculum consists of 40% Mathematics, 30% core CS and 30% AI-related courses which are designed to provide a perfect platform for those who seek strong mathematical and analytical components with a specialization in AI. As far as academic programs are concerned, the department offers Btech and Btech+Concentration in Artificial Intelligence/Mathematical Modeling/Theoretical Computer Science/ Advanced Mathematics. It also offers postgraduate programs MSc and PhD.

The primary emphasis of the department is on interactive and participative methods of learning. Research talks from academia and industry are also organised to expose students to current research environments and practices.



Facilities

High Performance Computing
GPU Computing
Mathematical Softwares Based Lab
Fluid Dynamics Lab
Mathematical Biology Lab.

Domains

Applied Statistics,
Artificial Intelligence,
Cryptography
Data Science
Financial Mathematics,
Mathematical Modelling
Pure Mathematics
Time-Series Analysis
Theoretical Computer Science

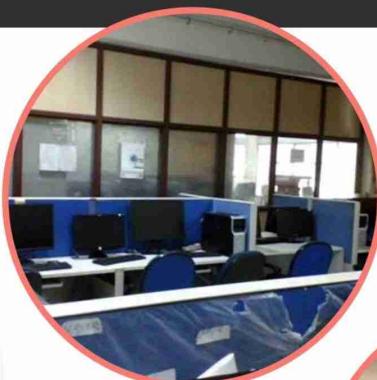
Achievements

Passed out PhD students are working as Post Docs in reputed foreign universities like University of California, Berkeley (USA), Universite Libre De Bruxelles (Belgium) and NORDITA University of Stockholm (Sweden).

Dr. Manoranjan Mishra elected as a fellow of the National Academy of Science India (NASI)

Dr. Arvind Kumar Gupta elected as a member of NASI.

Dr. Subash Chandra Martha elected as a member of NASI.



OnGoing MOUs



BINGHAMTON
UNIVERSITY
STATE UNIVERSITY OF NEW YORK



TECHNISCHE
UNIVERSITÄT
DARMSTADT



國立交通大學
National Chiao Tung University



University of
BRISTOL

MIT
Massachusetts
Institute of
Technology





UNIVERSITY OF
CANBERRA



UNIVERSITY OF
CALGARY



SUNY POLYTECHNIC
INSTITUTE



Saitama University



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.

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.

Internship Program Timeline

B-Tech

Winter Break(1 Month)

Students can opt for a one month internship.
Students are encouraged for such internships.

SEM 1

SEM 2

Winter Break(1 Month)

Students can opt for a one month internship.
Students are encouraged for such internships.



SEM 3

SEM 4

Summer Break(2 Months)

Students can opt for a two month internship.
Students are encouraged for such internships.

Summer Break(2 Months)

Students can opt for a two 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.

Winter Break(1 Month)

Students can opt for a one month internship. Students are encouraged for such internships.



Additional Internship Program (8th Sem as internship semester)

Six-month engagement of students with Industry or Research Organisations anywhere in the world for Students opting for Additional Internship.

Mandatory Summer Internship

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

Additional Internship Program (7th Sem as internship semester)

Six-month engagement of students with Industry or Research Organisations anywhere in the world for Students opting for Additional Internship.

Internship Program Timeline

B.Tech - M.Tech Dual Degree

Winter Break(1 Month)

Students can opt for a one month internship.
Students are encouraged for such internships.

SEM 1

SEM 2

SEM 3

SEM 4

SEM 5

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 encouraged for such internships.

Summer Break(2 Months)

Students can opt for a two 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.

(1 Month)

opt for a
internship.
encouraged
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Additional Internship Program (8Th Sem as internship semester)

Six-month engagement of students with Industry or Research Organisations anywhere in the world for Students opting for Additional Internship.

SEM 6

SEM 7

SEM 8

SEM 9

SEM 10



Thesis Period

Mandatory Summer Internship

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

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

Additional Internship Program (7Th Sem as internship semester)

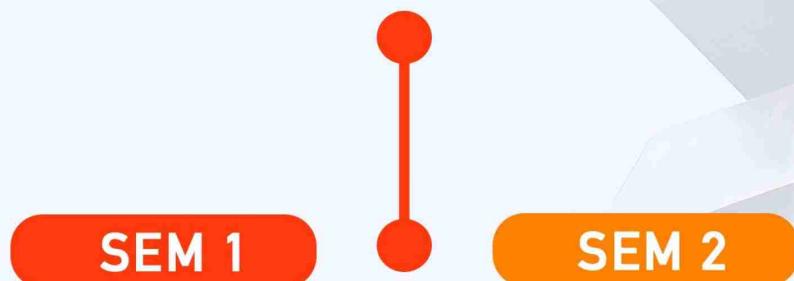
Month engagement of students with Industry or Research Organisations anywhere in the world for Students opting for Additional Internship.

Internship Program Timeline

M-Tech

Winter Break(1 Month)

Students can opt for a one month internship. Students are encouraged for such internships.



SEM 3

SEM 4

Thesis Period

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

Non-STEM

We at IIT Ropar take students' all round development seriously. Compulsory courses like Economics broaden students' perspectives and courses like Industrial Management give a glimpse into the managerial world. Apart from these, there are innumerable Non-STEM electives that are widely chosen across the institute. Some of these courses are:

- Financial Markets and Institutions
- Applied Econometrics
- Operations Management
- International Economics and Finance
- Introduction to Entrepreneurship

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

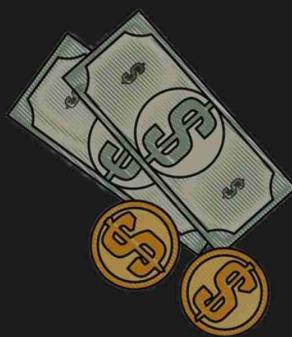
CLUBS/SOCIETIES

FINCOM (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 engage 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 its flagship course on finance and consulting (FnC101) with more than 150 students registered in the course and currently running PM101 and Consult 101 both having more than 120 registrations. It conducts regular quizzes, assignments, seminars and panel discussion by guest lecturers. Various interactive sessions with different professionals currently working as a VC, investment banker, consulting, PM

ShARE (EDUCATION AND CONSULTING ORGANISATION)

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 new generation 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
Associate Consultants
Business Analysts
Management Trainee

Product Analysts
Quant Researcher / Quant Finance
Data Scientists
Market Analysts/traders

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 Germeraad, Mr Harit Mohan, Mr Ajay Gupta, IPS Ravi Kumar to mention a few.

Event Visited-

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

ENACTUS

ENACTUS stands for Entrepreneurial Action For Others Creates A Better World For Us All. Commenced in 2012, 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.

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 strives to stimulate interest in robotics among the students of the institute. We firmly believe in working in a planned, organised and disciplined manner that helps us in risk free management.

CODING CLUB

The club aims to give a good perspective of development and encourages the students to attend Hackathons. We also encourage participation in competitive programming events like ACM ICPC, CodeChef challenges and by conducting regular challenges within the college. We also organise seminars by experienced people in the area of open source development.

MUN CLUB

The Model United Nations (MUN) Society at IIT Ropar aims to apprise the students of the working of the United Nations (UN) and its various agencies, and how solving important global issues through cooperation takes centre stage. The students learn vital skills such as debating, structuring arguments, diplomacy, leadership and public speaking, besides getting enriched with knowledge pertaining to world affairs, thereby transforming them into true global citizens.

ZENITH CLUB (ASTRONOMY)

We aim to deepen students' understanding and knowledge of science and astronomy. We conduct workshops, lectures to give interested students a basic knowledge of astronomy. We give students the experience of observing planets, galaxies, star clusters and other wonders of the universe in the sky through a telescope.

CIM CLUB

Computer-Integrated Manufacturing (CIM) is the manufacturing approach of using computers to control the entire production process. The CIM aims to impart knowledge regarding designing products, using modern softwares and technologies.

DEBSOC (DEBATING CLUB)

Debating Club, IIT Ropar, named as DebSoc, which comes under Board Of Literary Affairs(BOLA), is an active community which aims to promote the culture of debating in the institute and provides a platform to bring all the debaters together. DebSoc creates a great platform for students, ideal and conducive to learn from each other and develop their knowledge! Apart from these, we also have Photography club, Design and Animation club, Movie club, Music club, Dance Club, Fine Arts club, Dramatics, and many many more!

PEHCHAAN - EK SAFAR

The highly motivated and enthusiastic students of IIT Ropar are active as a social service group (a registered NGO) under the name PEHCHAAN EK SAFAR (Search for an Identity). We have been working for the education of under privileged children around the permanent campus of IIT Ropar. The workforce at Pehchaan Ek Safar aims to be at the forefront of the battle against illiteracy. We feel the need to inculcate a rational mindset and scientific temper amongst citizens.







Fests

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.

ADVITYA

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 Humanoids, 3-D pen and various workshops such 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.

AAROHAN

Arohan is the annual sports fest of IIT Ropar. Spanning 3 days, it attracts a wide spectrum of youth from all over North India by providing excellent infrastructure, gruelling competition and the motivation to enable students to achieve the zenith of their respective performances. Sporting activities include Cricket, Badminton, Volleyball, Basketball, Football, Tennis, Table Tennis, etc. Fun activities like Tug of War, Paintball, Poker and Arm Wrestling are organised to lighten the intense mood. Notable personalities to visit Arohan include Mr. Sandeep Singh (ex-captain of hockey team), and Mr. Surender Nada (Kabaddi player, part of world cup winning team in 2016).



Placement Procedure

Full Time Employee & Intern Hiring Process

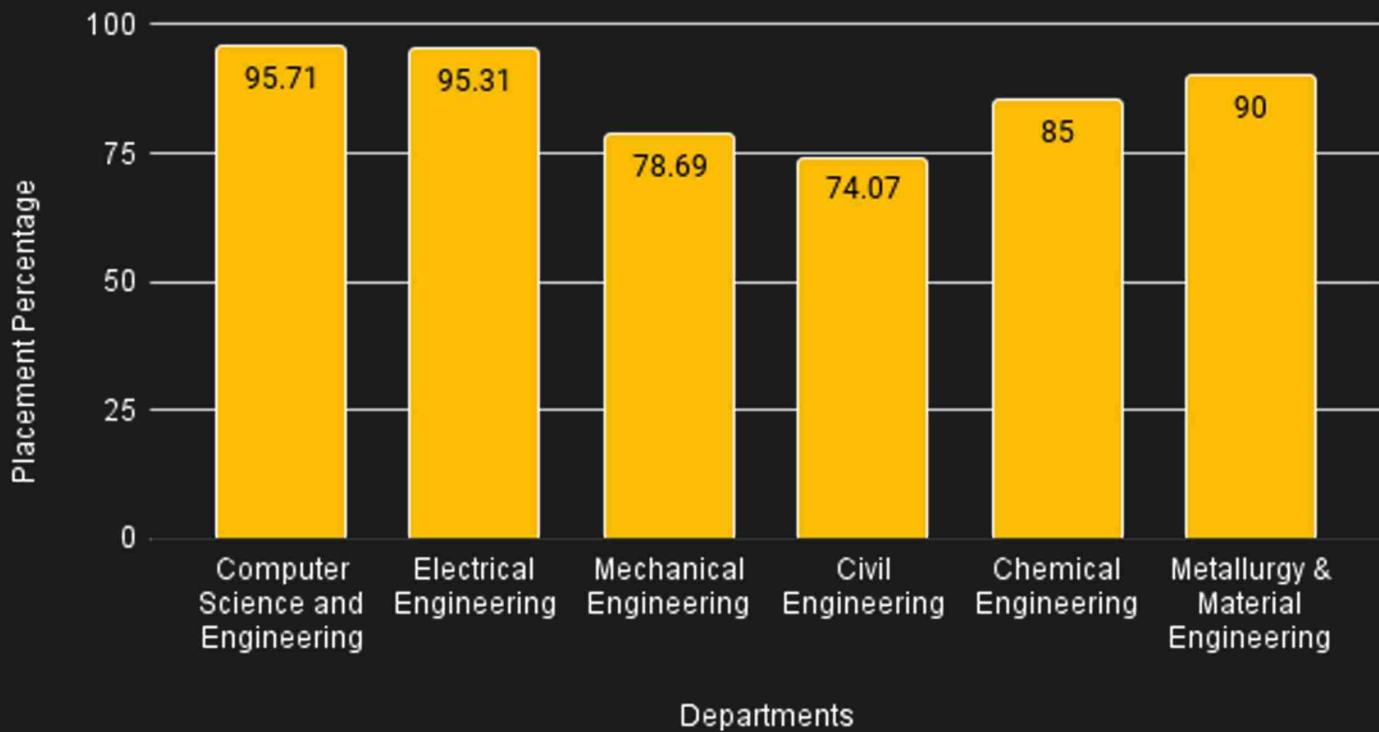
- 1. Invites sent by CDPC office or Company can connect T&P Cell team. (contact details available on last page)**
- 2. An online Job Announcement Form (JAF) for FTE hiring to be filled by HR manager to share the job profile being offered to students. Online Internship Notification Form (INF) to be filled in case company is interested in hiring intern**
- 3. Based on job profile being offered, interested students register for the FTE 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

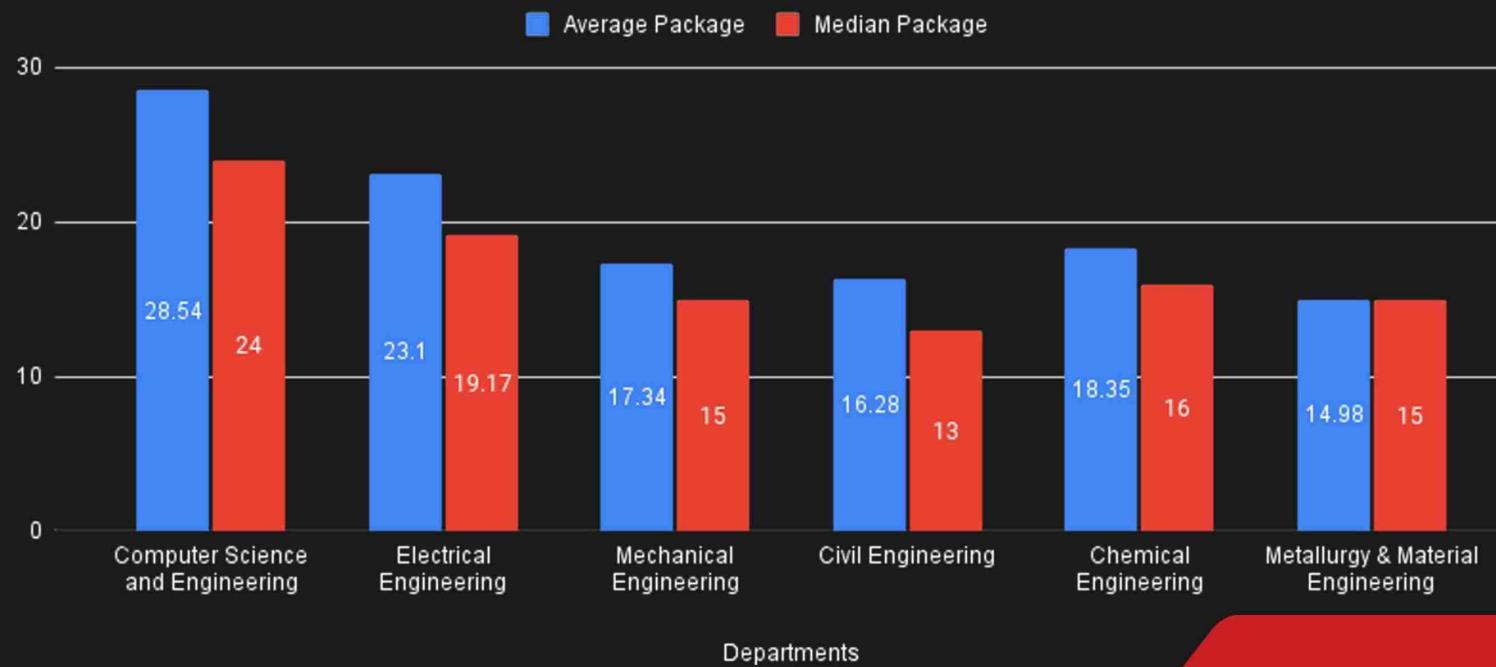


Placement Statistics

Placement Percentage vs. Departments

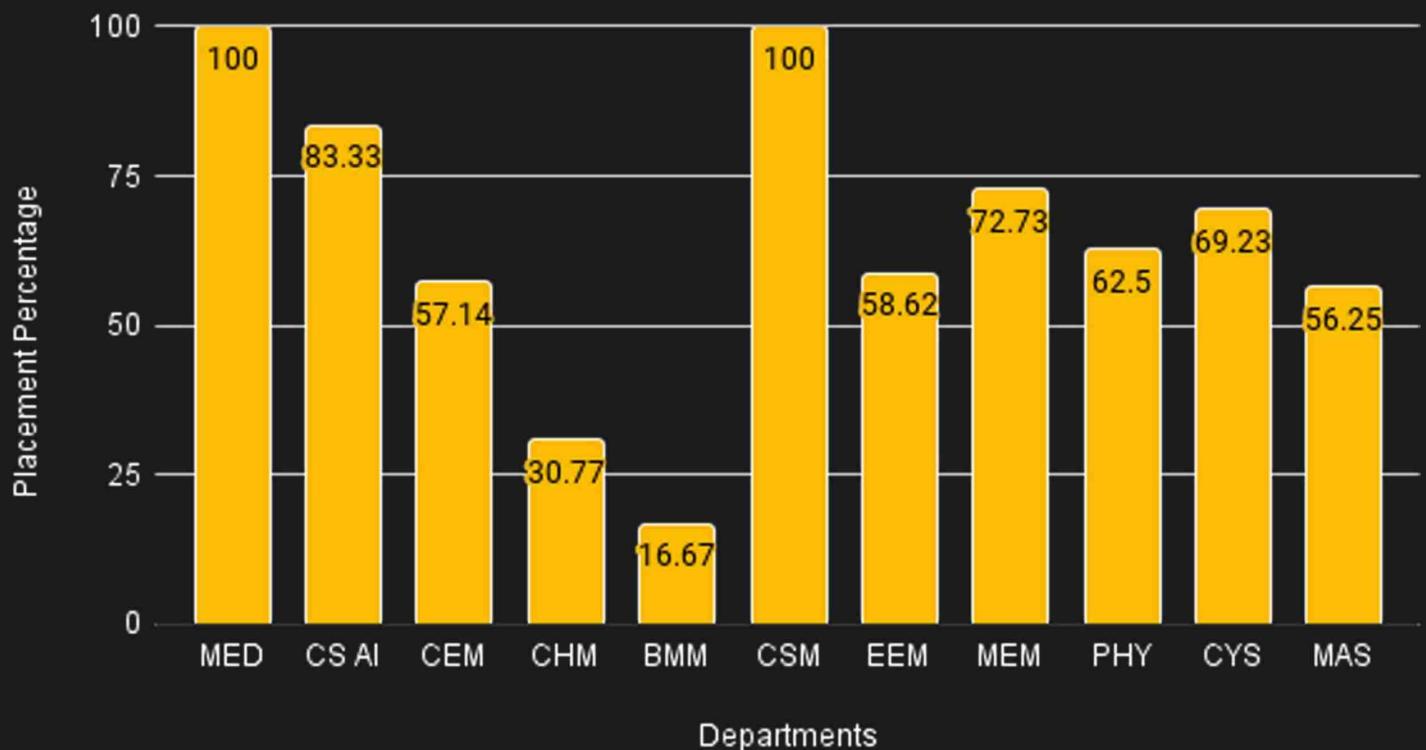


Average and Median Package

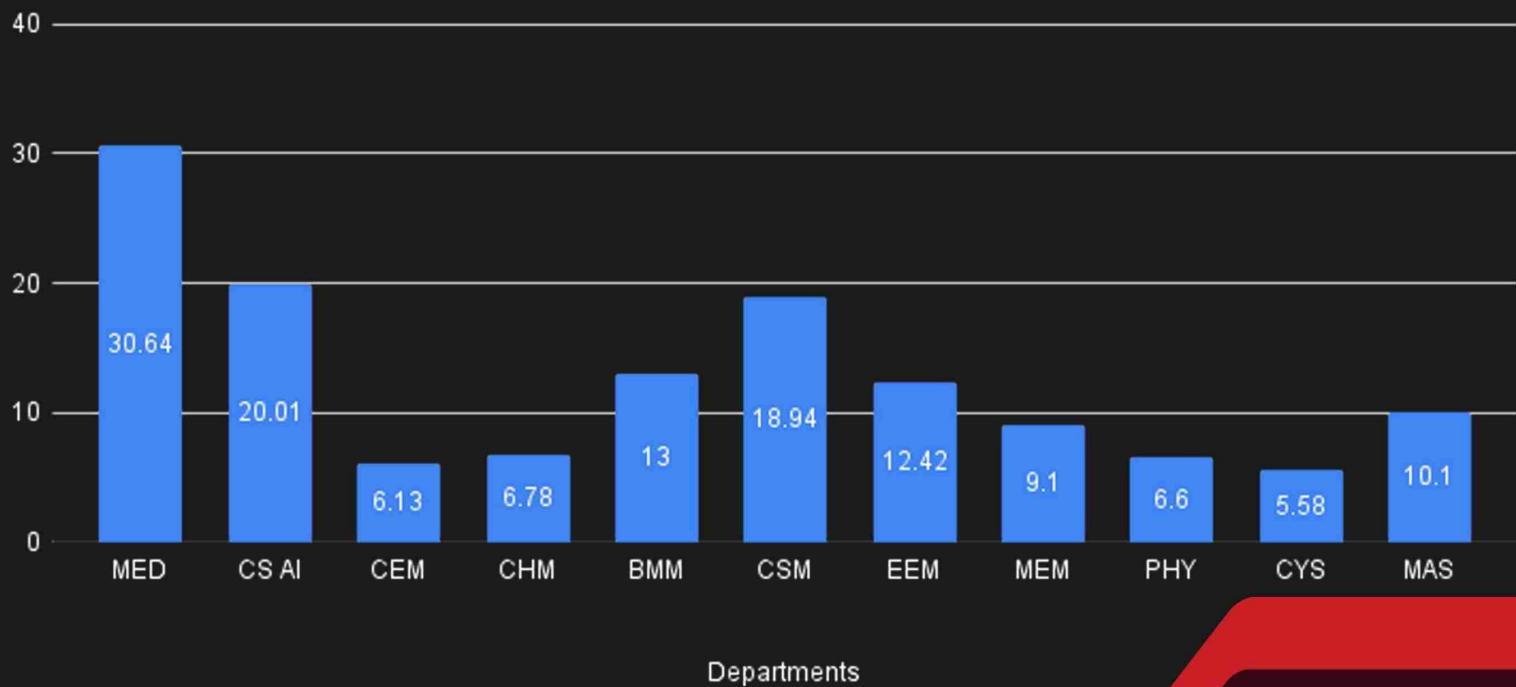


Placement Statistics

Placement Percentage vs. Departments



Average and Median Package



Previous Recruiters

 TEXAS INSTRUMENTS

 Infosys®

 SAMSUNG

 Goldman Sachs

 zomato

 paytm

 ORACLE

 PhonePe

 Google

 wipro

 amazon

 Flipkart



 airtel

 Deloitte.

 Honeywell

 Jio

 Microsoft



M.Sc. (Chemistry)

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

M.Sc. (Mathematics)

Aakash, Bridge2i, Fabheads automation, Yellow.ai, ANZ Operations and Technology, Jungleworks, Class plus, Factwise, Fiitjee, Adloid, Rich panel, Trilogy

Software Development 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

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

Core Mechanical

Dassault Systemes, Sterlite, General Electric, Bajaj Auto, Maruti Suzuki, BPCL, BEL, Loreal, JSPL, Mahindra and Mahindra, Siemens Energy, Tata Power, Cummins, Halliburton

Core (Metallurgy)

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

Previous Recruiters

Core Civil

Adani
Mahindra & Mahindra
L&T

Core Electrical

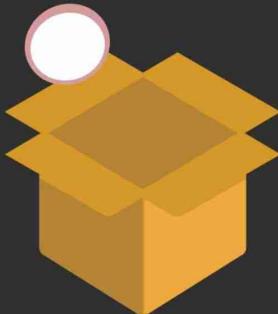
Texas Instruments, Micron, Intel, Nvidia, Qualcomm, Silicon Labs, Cadence, Mediatek, Synopsys India, Ceremorphics, Tata Digital, Singularity Dynamics, Fabheads Automation, Larsen & Toubro, Logic Fruit Technologies Pvt Ltd.

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'oreal, Larsen and Toubro, Helium Consulting, Tata Power, Fluor Daniel, Jindal Steel Works, Adani Group, Dassault, Linde, Intas Pharmaceuticals

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, Kvantium, Field Assist, Kanvic Consulting



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