Placement Brochure
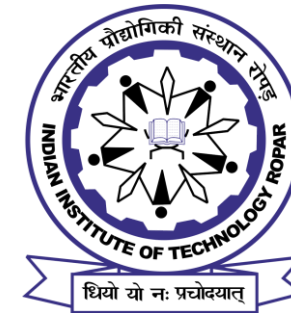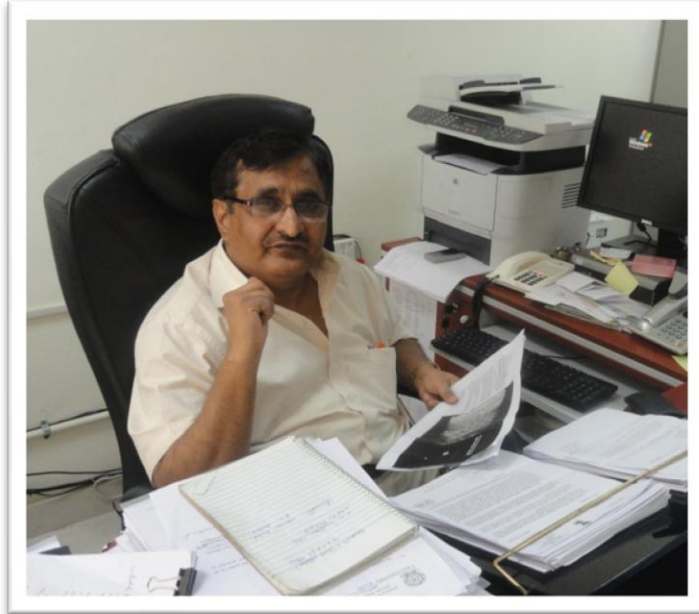
Training & Placement Cell
Indian Institute of Technology Ropar
Nangal Road, Rupnagar, Punjab-140001

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 with a view to expand access to high quality technical education for young bright minds of India.

IIT Ropar was established in the year 2008 and has been in operation for more than five years. The first batch of students graduated with a B.Tech.degree in July 2012.

IIT Ropar has allrequired infrastructure, including highly qualified faculty members and well-equipped laboratories, for hands on experience. Students are exposed to the most modern and up-to-date curriculum and contemporary developments in various disciplines of engineering. In addition to developing excellent scientific and engineering skills our graduates have been molded into well-rounded personalities, given their exposure to working as teams on projects, developing presentation and communication skills, and actively participating in extracurricular activities.

I heartily welcome manufacturing and R&D establishments, companies in IT, services, utility and other sectors to the IIT Ropar campus for recruitment of our B. Tech graduates. You will recognize the availability of choice of bright and talented engineers with requisite skills that can solve your challenging engineering problems and add value to your organization.

Prof. M. K. Surappa
Director
Email – director@iitrpr.ac.in

Message from the Dean, Academics & Research

It is my great privilege to extend whole hearted invitation to your esteemed organization on behalf of the staff and students of IIT Ropar, to participate in the campus recruitment process as per your expectations for the current year (2014-2015). From the moment of its inception, IIT Ropar has witnessed an enthralling elevation in the field of technical excellence, research, development and industrial collaboration. We received an overwhelming response from the organizations where our students underwent internships and during the placements of the pioneer batch and the second batch over the last two years. The certification of our students as highly productive and industry ready assures us that the quality of the students that is coming out is as per the expectations from IITians. These appreciations have further strengthened our initiatives for establishment of a significant number of MoUs with highly reputed institutions in India and abroad as well as top-notch industries.

I am looking forward to your participation in the Campus Placement Process and anticipate that your visit shall begin a promising and an everlasting relationship between the institute and your organization in the days ahead.

Prof. P. K. Raina
Dean, Academics and Research
Email – deanar@iitrpr.ac.in

Contents

IIT Ropar was established in the year 2008 with an aim to produce world class engineers who would establish themselves in the higher echelons of any field they venture into.

It began with offering B.Tech.degrees in three mainstream engineering disciplines, namely, Computer Science & Engineering, Electrical Engineering, and Mechanical Engineering, with its first year of operation at IIT Delhi. Currently operational at the transit campus in Rupnagar, near Chandigarh (Punjab), the institute excels in myriad fields of study at both undergraduate and postgraduate levels.

The fourth batch of the institute will graduate in May 2015 and it is a matter of great pleasure for the institute to take this opportunity to invite potential companies to experience and evaluate the dexterities, competency, skills and talent of our students and absorb them into their esteemed organizations.

Departments

Department of Computer Science and Engineering

The Department of Computer Science and Engineering was established in 2008 with the objective of offering world-class education and cutting-edge research opportunities to its students.

On the educational front, the curriculum is designed with a motive to prepare students to be industrial and academic leaders who can apply computer science principles across a wide variety of fields. In addition to fundamental courses, specialized elective courses such as Software Engineering, Artificial Intelligence and High Performance Computing are offered to keep pace with emerging technologies and trends.

On the research front, our outstanding faculty and students are exploring a wide range of innovative ideas in areas of Real-time Systems, Theoretical Robotics, Approximation Algorithms, Bioinformatics, Large Scale Optimization, Image Processing and Pattern Recognition.

Department of Electrical Engineering

The Department of Electrical Engineering, since its inception in the year 2008, has been nurturing the talent of globally competitive engineering students with benchmark domain expertise and all-round finesse. Research areas in the department include Biomedical Signal Processing, Photonics and Optical Communication, Wide Area Monitoring and Control Systems, Low-power Mixed Signal Circuit and Device Designs, Novel Device Structures, and Power and Energy Systems: Planning, Economics, Operation, and Control.

The undergraduate programme provides the students with a strong background in the four broad avenues of electrical engineering, namely, Communication Technology, Control Technology, Electronics, Power and Energy. A strong exposure to state-of-the-art technologies is further provided through electives that are carefully designed for students. The undergraduate students have sound exposure to Optical Communication, Instrumentation and Medical Electronics, Digital

Departments

School of Mechanical, Materials & Energy Engineering (SMMEE)

The School of Mechanical, Materials and Energy Engineering was established in 2008 as the Department of Mechanical Engineering. Equipped with well-structured instruction and learning resources and research facilities, the school aims to disseminate knowledge in the inter-disciplinary areas of mechanical, materials and energy engineering.

The progressive curriculum places emphasis on global concerns such as energy efficiency, non-renewable resource management, and pollution prevention and control.Ongoing research in the fields of Materials Processing, Smart Materials & Structures, Surface Engineering, Heat Transfer, Sustainable Design and Manufacturing, Robotics, Biomechanics and Renewable Energy, will help cater to the growing demand of constant innovation and development in the industrial sector.

Sciences and Humanities

Since engineering study demands knowledge of various sciences, students, as a part of the undergraduate programme, are required to undergo certain foundational courses from other departments such as the Physics, Chemistry, Mathematics, and Humanities & Social Sciences Departments. A course structure which integrates science and humanities courses with core engineering courses and the availability of programme electives provide students the experience of making choices and becoming responsible towards their academic programme.

Research

The institute, apart from establishing a robust teaching environment, facilitates and supports cutting-edge research in a wide variety of areas.

The faculty selection procedure places a strong emphasis on candidates' research record and future research potential. Most of the faculty members at the institute have acquired years of research experience in world-class institutions across the globe. The institute facilitates research program establishment through provision of competitive seed grants to new faculty members.

Apart from PhD students, who are actively involved in full-time research, undergraduate students are offered an opportunity and are encouraged to participate in ongoing research projects.

The undergraduate students also work on their major B.Tech.projects in the final year of their study, which involves solving current industrial and research oriented problems.

Collaborations

- IIT Ropar is keen to start collaborative ventures with universities (both in India and abroad), industry, and other research institutes.

- In a sequel to the agreement signed between the Prime Minister of India and his counterpart in United Kingdom in June 2008, IIT Ropar has teamed up with Imperial College of London, Aston University, and University of Glasgow to promote development in research work being carried out at these institutions.

- As a part of the collaboration, students from IIT Ropar have been doing research projects as well as summer training programmes at Aston University from the past four years.

- Collaboration with University of New South Wales, Australia focuses on developing next generation solar thermal energy systems that convert heat from sunlight into electricity.

- Apart from this, IIT Ropar is also in collaboration with Simon Fraser University, Canada.

Internship

Abilities India Piston and Rings	Enelek Power	Microsoft	Swaraj Majda
AECOM	ESCORTS LIMITED	Nabinagar Super Thermal Power Project	Smartway Solutions Pvt. Ltd.
AeronauticalDevelopment	Friedrich-Alexander	National Engineering Industries Limited	Schneider Electric
Akamai Technologies IndiaPvt. Ltd.	University of Erlangen-Nuremberg	NavyugInfosolutions	Synergy Automation
Alstom	General Electric	NBC (The National Broadcasting Company)	Talwar and Talwar Consultants
Amazon Development Center	GreyB Consultancies	National Chiao Tung University Taiwan	Tata Elxsi Ltd., Bangalore
Arista Networks India Private Ltd	Guru Gobind Singh Super Thermal Plant	NEC India	Tata Motors Ltd.
Ashok Leyland	HCL Infosystems Ltd	NFTDC	Tata Steel Limited
Aston University, Birmingham	Healthouts .com.	Nokia Siemens Networks Ltd.	Texas Instruments (India) Pvt. Ltd
BARC	Hero Motors	National Tsing Hua UniversityTaiwan	The Energy and Resources Institute
Bharat Heavy Electricals Ltd.	Honda Motorcycle & Scooter India Pvt Ltd	NTPC Limited	The Perfect Future (TPF)
Bharat Electronics Limited (BEL)	Hyundai Motors India	Obra Thermal Power Station	Thermal Power Plant Suratgarh
Bhilai Steel Plant	IDRBT Hyderabad	Oceaneering International Service Ltd.	Timetooth Technologies
BlobCity	IIT PATNA	Oil and Natural Gas Corporation	Tricolite Electrical Industires Ltd
Bloom energy	Imperial College London	Pal Infosystems	Truechips Solutions
Bosch India	Indian Oil Corporation Limited	Panasonic AVC Networks India Co. Ltd.	TT Consultants
Cheema Boilers Limited	Indian Railway	Peekay Steel Castings Pvt Ltd	uTrade Solutions
Chittaranjan Locomotive Works	IndiGo Airlines	Power Grid Corporation of India	University of Missouri- Kansas City
CSIO Chandigarh	Insideview Technologies	PowericaPvt Ltd	University of Southern California, LA
DAAD, Germany	JCB India Pvt Ltd	Renault Nissan Automotive India Private Limited	Uppsala University, Sweden
DRDO Labs	Kerala Electrical & Allied Engineering Co.Ltd. (KEL)	SAAVN	Uurmi Systems Pvt. Ltd
Diesel Locomotive Works	Kota Thermal Power Station	Samsung	Volkswagen
Dongguk University, Seoul South Korea	Larsen & Toubro (L&T)		Volvo
M.P. PaschimKshetraVidyutVitaran Co. Ltd"	Lucid Software Ltd		Yamaha
Ecole Centrale Paris	Maruti		Zeus Numerix
Laboratoire Génie Industriel"	Max India Ltd		
EcolePolytechnique de Montreal,			

CAMPUS RECRUITERS IIT ROPAR

IndianOil
Epic
amazon.com
ebaY
Microsoft
SAMSUNG
ARISTA
CISCO
TechTier
flipkart.com
TEXAS INSTRUMENTS
DRDO
ONGC
InnovativeScheduling
OPTIMIZATION IN ACTION
Cognizant
TIMETOOTH
TECHNOLOGIES
ORACLE
EDIFECS
LUCID
SCA Technologies
Intelligent Cost Management Solutions
OCEANEERING
L&T
Infosys
POWERED BY INTELLECT
DRIVEN BY VALUES
impetus
Excellence in Solutions
U-TRADE
LARSEN & TOUBRO
It's all about Imagineering
navyug
nagarro
अवन्ती
AVANTI FELLOWS
ERICSSON
HP

Average salary offered in 2014

Rs 15.8 Lakhs

Rs 12.8 Lakhs

Rs 9.2 Lakhs

Rs 4.3 Lakhs

CS   EE   ME   All

Average salary offered in past years

Rs 12.8 Lakhs

Rs 11.2 Lakhs

Rs 9.0 Lakhs

2012   2013   2014

Number of Students Placed (%) in past years

86.7%   88.3%

52.3%

2012   2013   2014
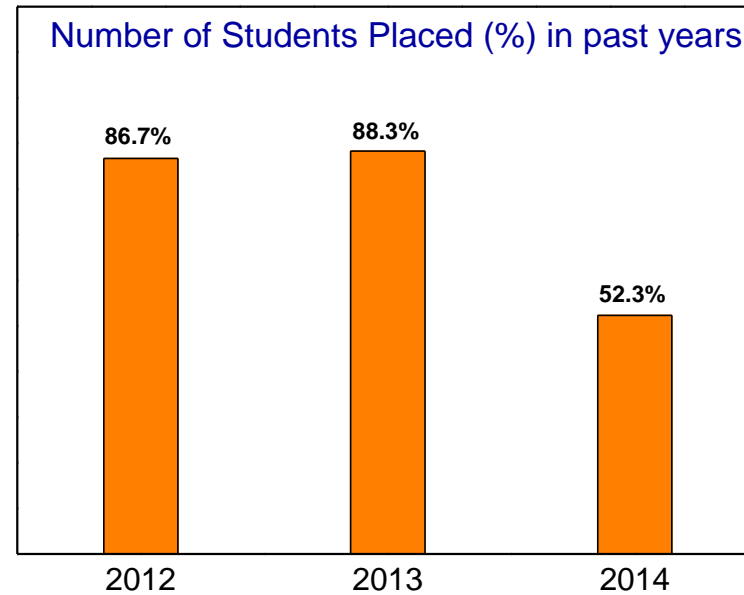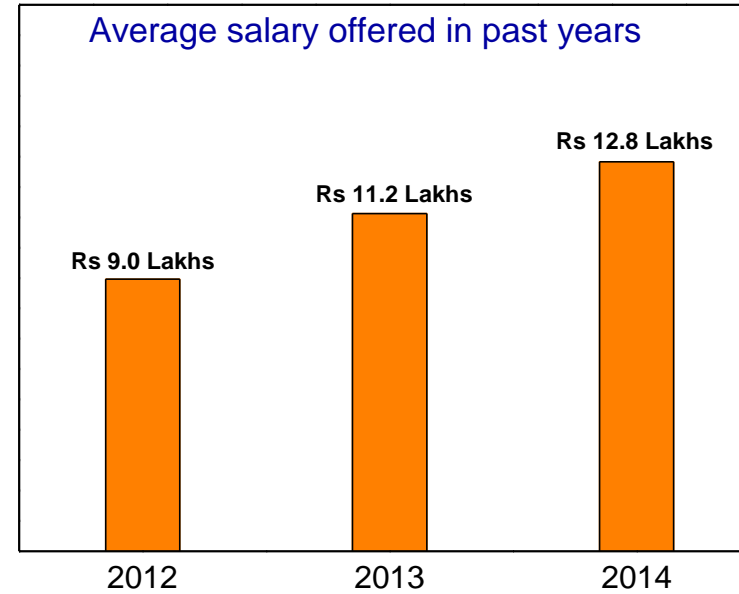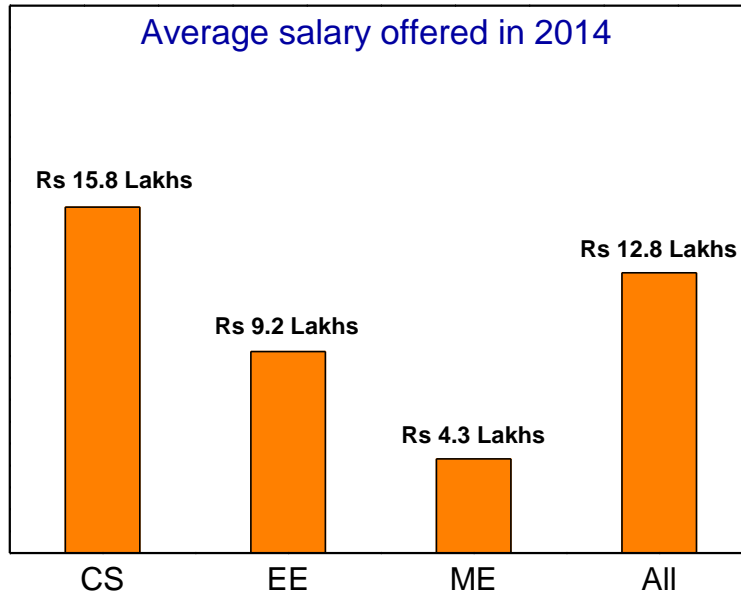
Student Activities

To enhance the students' confidence, leadership qualities, attitude, management, communication and creative skills, the institute encourages a variety of activities and requires the election of student representatives as members of various councils. In keeping with the tradition of IITs, this initiative also provides the student community with an opportunity to exercise their autonomy in a responsible manner.

To keep the recreation levels up and the spirits lively, the students have organized various intra-institute events.

Sports Events:

- Annual Inter-hostel Sports Championship
- Inter Department Championships
- Inter IIT Sports Meet

Cultural Societies and Events:

- Annual inter-hostel championship is organized, hosting events like debates, singing, dancing, drama, etc.
- Society for Publication and Communication Skills Development, Music Society, Dance Society, Dramatics Society, Society for Literary Activities and the Hindi Club
- *SPIC MACAY*: Society for Promotion of Indian Classical Music and Culture Among Youth
- *Zeitgeist:* The annual cultural festival of IIT Ropar, was held for the first time in September 2010. It attracts participation from colleges from all around India. The fest has been a huge success and brings out the creative and management skills of the students

IIT Ropar in the News

- **IIT Ropar in a life changing project**
  A new renewable energy technology that has the potential to eradicate the problem of open field burning in India has been developed by the institute in collaboration with Aston University
  http://www1.aston.ac.uk/about/news/releases/2013/july/international-research-project-to-transform/

- **IIT Ropar doing well in placements:**
  IITRopar, where campus recruitments are taking place for the first time, seems to be doingwell, compared to many newly-opened IITs ...
  http://articles.timesofindia.indiatimes.com/2011-12-13/india/30511532_1_campus-placements-campus-recruitments-iit-students

- With students in B.Tech. and PhD, the Ropar IIT offers courses in computer science and engineering, mechanical engineering and electrical engineering. The director, M K Surappa, says an interdisciplinary approach is encouraged.
  http://www.collegekhabar.com/placementnews/view/IIT-Ropar-Roping-in-attractive-recruiters

Placement Procedure

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┌─────────────────────┐     ┌─────────────────────┐     ┌─────────────────────┐
│   T&P Cell invites  │     │ CVs of the applicants│     │ The company mails the│
│      companies      │     │   are made available │     │  list of short listed│
│                     │     │   to the company     │     │   students to the T&P│
│                     │     │  concerned for short │     │   Cell prior to the  │
│                     │     │       listing        │     │   final interviews   │
└─────────────────────┘     └─────────────────────┘     └─────────────────────┘
          │                                                        │
┌─────────────────────┐     ┌─────────────────────┐     ┌─────────────────────┐
│ Interested companies│     │ Interested students  │     │ The company visits   │
│  contact T&P Cell at│     │ register for the     │     │ the campus for       │
│ placement@iitrpr.ac.in    │ company online       │     │ placements on the    │
│                     │     │ through the website  │     │ allotted date and    │
│                     │     │                      │     │ conducts its final   │
│                     │     │                      │     │ selection procedure  │
└─────────────────────┘     └─────────────────────┘     └─────────────────────┘
          │                           │                            │
┌─────────────────────┐     ┌─────────────────────┐     ┌─────────────────────┐
│ Company sends the   │     │ The company visits   │     │ The company furnishes│
│ duly filled Job     │     │ the campus and       │     │ the final list of    │
│ Announcement        │     │ conducts its         │     │ selected students on │
│ Form(JAF)           │     │ pre-placement talk   │     │ the same day         │
│                     │     │ (PPT)                │     │                      │
└─────────────────────┘     └─────────────────────┘     └─────────────────────┘
          │                           │
┌─────────────────────┐     ┌─────────────────────┐
│ The dates for campus│     │ Suitable date for the│
│ interviews are      │─────│ Pre Placement Talk is│
│ allotted on the     │     │ decided and students │
│ basis of information│     │ are notified         │
│ provided in JAF     │     │                      │
└─────────────────────┘     └─────────────────────┘
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T&P Cell invites companies

CVs of the applicants are made available to the company concerned for short listing

The company mails the list of short listed students to the T&P Cell prior to the final interviews

Interested companies contact T&P Cell at placement@iitrpr.ac.in

Interested students register for the company online through the website

The company visits the campus for placements on the allotted date and conducts its final selection procedure

Company sends the duly filled Job Announcement Form(JAF)

The company visits the campus and conducts its pre-placement talk (PPT)

The company furnishes the final list of selected students on the same day

The dates for campus interviews are allotted on the basis of information provided in JAF

Suitable date for the Pre Placement Talk is decided and students are notified

Training and Placement Team 2014-2015

Faculty-in-charge

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Mechanical Engineering:	Rohan Prasad	+91 8968705414	Akshat Pandey	+91 8130601736	SumanyuMaingi	+91 9914812901

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Message from Faculty-in-charge, Placement

It gives me great pleasure to invite you to visit the Indian Institute of Technology Ropar campus for the 2014-2015 placement session. 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 I am certain that your placement 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 collaboration projects, student societies and competitions, and 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, I cordially invite you to our campus for placements and I look forward to continuing a fruitful relationship between your organization and IIT Ropar.

Dr. Ravi Mohan Prasad
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School of Mechanical, Materials & Energy Engineering
Faculty-in-charge, Training and Placement Cell
Indian Institute of Technology Ropar
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