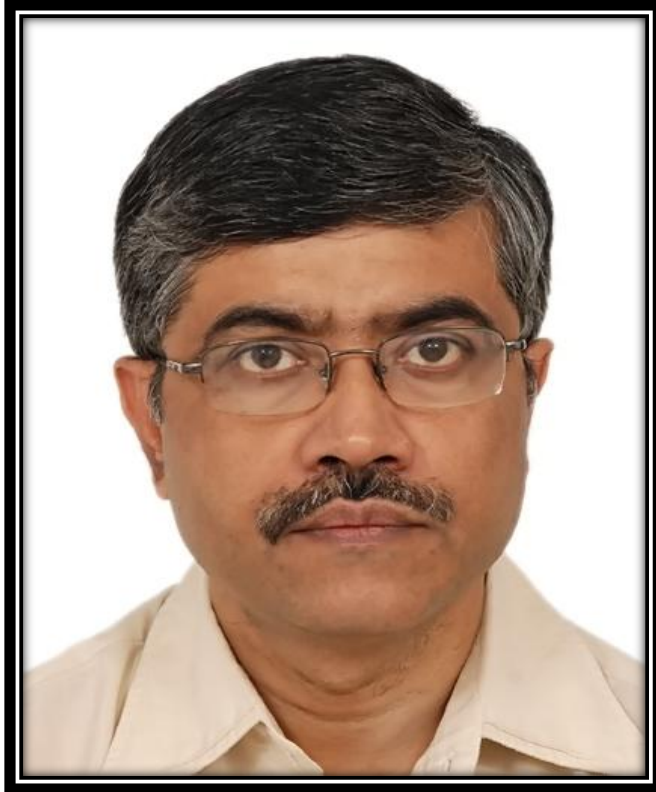# Placement Brochure

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

www.iitrpr.ac.in/tp
placement@iitrpr.ac.in
+91-1881-242195

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 six years. The first batch of students graduated with a B.Tech.degree in July 2012.

IIT Ropar has all required 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. Sarit K. Das
Director,
Indian Institute of Technology Ropar
Nangal Road, Rupnagar, Punjab – 140001, India
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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 (2015-16). 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

About IIT Ropar

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.degree 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 fifth batch of the institute will graduate in May 2016 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 program 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 program, 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 program electives provide students the experience of making choices and becoming responsible towards their academic program.

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 programs 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.
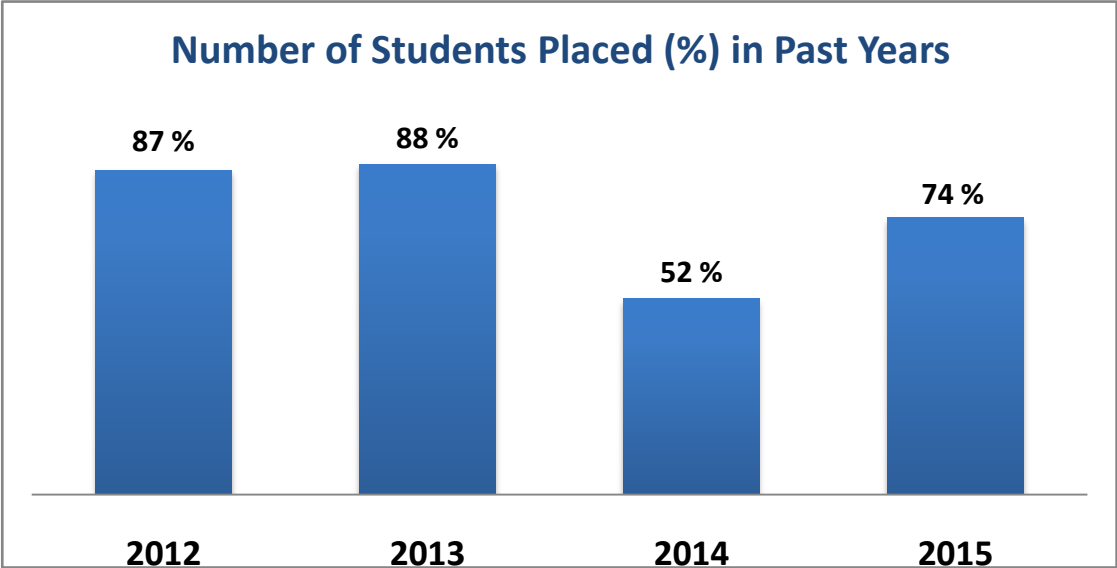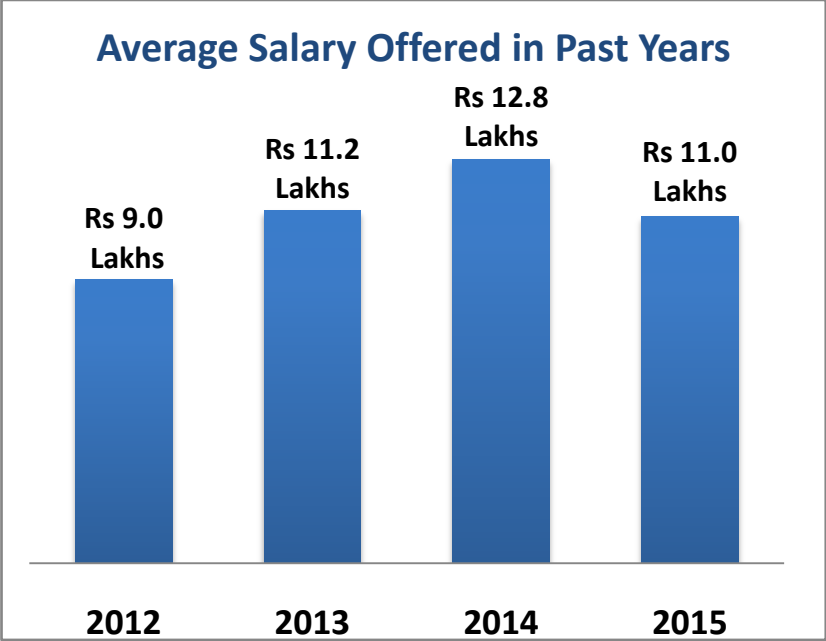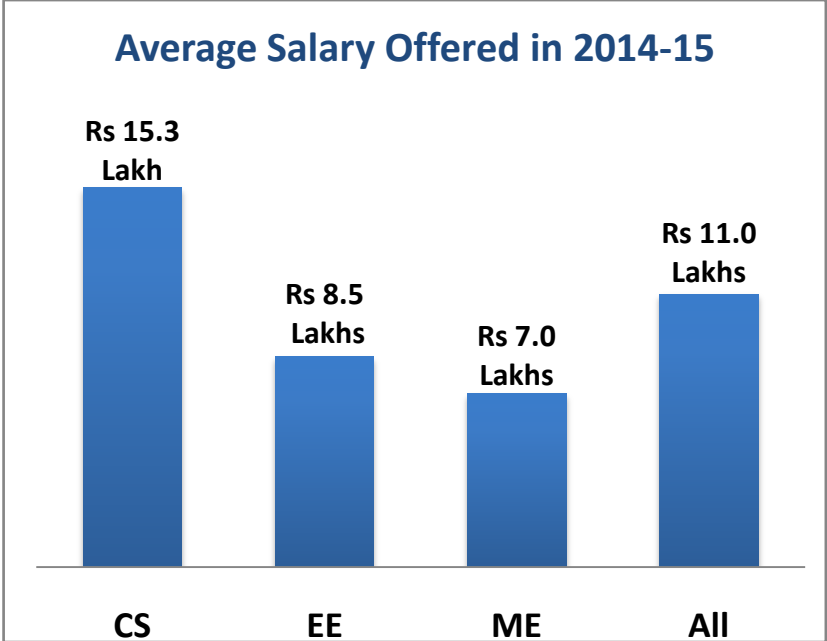
Internship

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

Past Campus Recruiters IIT Ropar

Statistics

Average Salary Offered in 2014-15

Rs 15.3 Lakh — CS
Rs 8.5 Lakhs — EE
Rs 7.0 Lakhs — ME
Rs 11.0 Lakhs — All

Average Salary Offered in Past Years

Rs 9.0 Lakhs — 2012
Rs 11.2 Lakhs — 2013
Rs 12.8 Lakhs — 2014
Rs 11.0 Lakhs — 2015

Number of Students Placed (%) in Past Years

87 % — 2012
88 % — 2013
52 % — 2014
74 % — 2015

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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, dramatic Society, society for literary activities and 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 first time in September 2010. It attracts participation From colleges all around India. The fest has been huge success And brings out the creative and management skills of student.

ENACTUS IIT ROPAR

ENACTUS (Entrepreneurial - Action - Us), IIT ROPAR is a chapter ofworld's 2nd largest student organization. The students of Enactus believe that human progress depends upon our ability to tap into the entrepreneurial spirit that lives within everyone and channel their collective talents, passions and ideas toward creating good in the world.

Since its foundation in January 2012 members of Enactus , IIT Ropar have already put in over 10000+ committed working hours and 200+ field trips to do their bit in bringing a strong and positive change in the economic as well as social status of many backward communities. Presently, the team has 50 active members and have already impacted about 50 lives directly.The team is currently working on two active projects- **Cleanshield** and **BagIN.**

ROBOTICS CLUB

The club allows undergraduates to inherit profound knowledge while concurrently provides an opportunity to work on stupendous practical projects. They are meant to encourage members to design and build robotic mechatronic systems either individually or in groups. Quarterly competitions promote the study and practice of robotics, while inspiring the members to pursue robotics related activities both on and off campus.

LITERARY CLUB

Literary Club of IIT Ropar is a platform for the literary enthusiasts of the institute for sharing thoughts, facts, ideas and stories. The club propels the students to widen their imagination and hone their intellectual skills. The main highlight of the club is the annual Poetic event *RASHMI*. This prominent event transpires with much enthusiasm not only from the student participants but also from esteemed faculty members.

IIT Ropar in the News

➢ **Good times back on engineering campuses**

(The Economic Times | Dated: Oct 10, 2014)

http://www.business-standard.com/article/management/good-times-back-on- engineering-campuses-114101000024_1.html

➢ **Placements Start on high note at new IITs**

(The Economic Times | Dated: Dec 5, 2014)

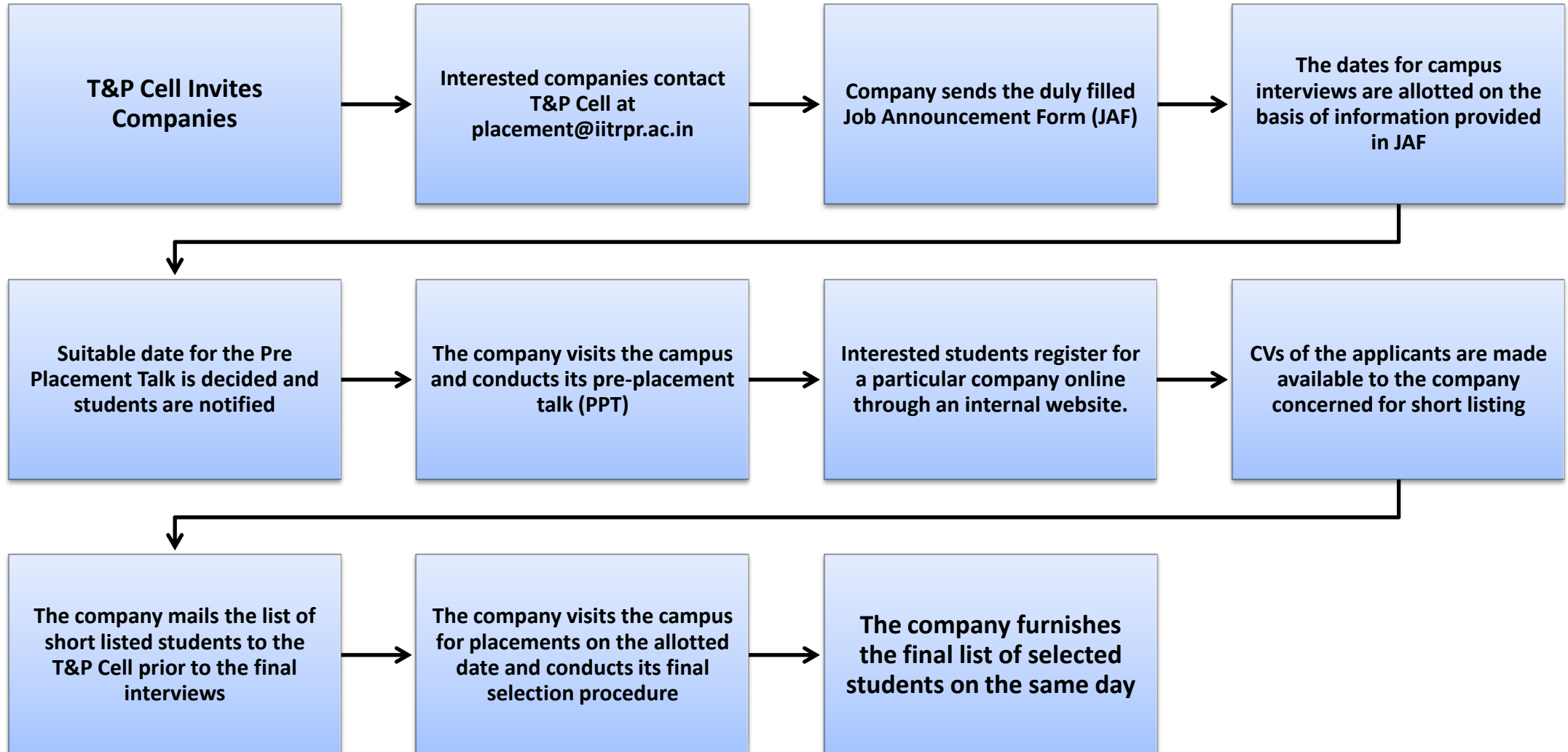http://economictimes.indiatimes.com/jobs/placements-start-on-a-high-note-at-new-iits/articleshow/45379667.cms

➢ **IITs have to produce leaders, not engineers**

(The Times of India, Chandigarh | Dated: Jun 19, 2015)

http://timesofindia.indiatimes.com/city/chandigarh/IITs-have-to-produce-leaders-not-just-engineers/articleshow/47727763.cms

Placement Procedure

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

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Mechanical Engineering:	Blesson Xavier	+91-86993-71850	Sai Harish	+91-82889-09866	Piyush Rai +91-85915-49337

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 2015-16 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 members, 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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