

# PLACEMENT **BROCHURE** 2019 - 2020



भारतीय प्रौद्योगिकी संस्थान पटना  
**INDIAN INSTITUTE OF TECHNOLOGY PATNA**



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## ACADEMICS

“

*IIT Patna is developing fast and would like to come up as an institute of excellence promoting intelligent, hardworking and technically curious minds.*

”



# From the **DIRECTOR'S DESK**

Currently, we have ten departments running 5 B.Tech. programs, 9 M.Tech. programs, and 3 M.Sc. programs, in addition to Ph.D. programs in all departments. The student strength has grown steadily from 92, in the first semester of 2008, to around 1600 along with current annual intake of about 300 UG students. We have signed MoUs with several leading international universities and industrial partners to provide rich exposure to our students. Large number of scientists and technologists visit IIT Patna regularly, and we promote exchange programmes with several international institutes. In addition to academics, we also focus on extracurricular activities comprising of cultural, sports, and entrepreneurial events. Through these, we aim to nurture the overall development of our students.

We are proud to be located in the city of Patna, the capital of the state of Bihar. It was a knowledge centre in the past

We train our students in both technical and soft skills to utilize their potential for the benefit of organisations they work for and for the society in general. Placement and industrial internship activities are a key focus of the academic programs. I welcome organizations in India and abroad to come forward and absorb our students. I would also like to invite all prospective trainers and employers to visit IIT Patna and interact with our students and professors and witness the pursuit of excellence in IIT Patna. If interested in making early e-placement/training talks, please let us know the preferred dates. Students have also prepared a booklet to help you understand our academic programmes. I look forward to your wholehearted support and engagement with us.

**Prof. Pushpak Bhattacharyya**  
Director, IIT Patna





**Dr. Jose V Parambil**  
Professor In charge  
Training and Placement Cell

# ADDRESS FROM TPC PIC

The Indian Institute of Technology Patna has made rapid progress in academic and research realms since its inception in 2008. It is my pleasure to invite you to our campus for recruiting the final year students in the 2019-20 session. We have 6 Engineering departments, namely, Computer Science & Engineering, Electrical Engineering, Mechanical Engineering, Civil & Environmental Engineering, Chemical & Biochemical Engineering, and Materials Science & Engineering along with departments for Physics, Chemistry, Mathematics and Humanities and Social Sciences. The institute offers B.Tech, M.Tech, M.Sc., and Ph.D. programs in these disciplines. All UG and PG programs have up-to-date contents and opportunities for industrial training and research. Our students have taken part and proven their mettle in several national and international events, both technical and cultural. They are active throughout the year in running about a dozen clubs on campus, each focusing on a different issue, ranging from social upliftment of rural areas to robotics and artificial intelligence. The students also organize two annuals events on the campus, Anweshha – an intercollegiate cultural competition and Celesta – a techno-management event.

IIT Patna has committed its resources to the upbringing of well-trained students capable of serving the community. Towards this, we have established excellent teaching and research

laboratories, attracted faculty members with international exposure, provided continuous support to technical, cultural, sports, and literary events, and signed MoUs with industrial and academic collaborators.

As an institute, we yearn to trigger the creativity and intellect of students, along with imparting soft skills such as teamwork and communication.

We expect that our students will work in reputed companies under stimulating and challenging environments. Hence, the Training and Placement Cell of IIT Patna would like to welcome you to visit our campus for selecting candidates for placement. We will provide all possible logistical assistance for the smooth conduct of the recruitment processes, including pre-placement talks, screening tests, interviews, and any other relevant selection processes. We have a dedicated team and facilities for supporting you in this.

I humbly request you to consider our students as potential employees of your organization. Kindly feel free to get in touch with us for any clarification and support.

# ABOUT IIT PATNA

Indian Institute of Technology Patna is one of the new IITs established by an Act of the Indian Parliament on August 06, 2008. Completing its ever blossoming 11 year old existence in the country this August, Indian Institute of Technology (IIT) Patna is an institution of national importance nurturing innovation and excellence amongst the student community to develop researchers and leaders and empower the country with their contributions in various disciplines in the future.

Currently, the Institute has developed modern facilities that are fully equipped with the state-of-the-art facilities (equipment software and machines) that are routinely used to train and educate students in the following programs:

**B.Tech in five disciplines:** Computer Science and Engineering, Electrical Engineering, Mechanical Engineering, Civil Engineering and Chemical Engineering.

**M.Tech in multi-disciplinary streams with Nine specializations:** Mechatronics, Mathematics & Computing, Nano Science & Technology, Computer Science and Engineering, Communication System Engineering, Mechanical Engineering, Civil and Infrastructure Engineering, Materials Science and Engineering, VLSI & Embedded System.

**M.Sc in three disciplines:** Chemistry, Physics, and Mathematics.

Budding research scholars are admitted in the Ph.D program of this Institute in all ten (10) departments.

As of August 2018, a cohort of approximately 2,500 people constitute the IITP fraternity, of which around 1,500 are students. Every year, an average of 300 students pass out of the institute which move to serve and lead in renowned research and corporate organizations.

IIT Patna is strategically placed with Bihta railway station, 2 kms away from the main gates. The JNPI International Airport, Patna is about 30 kms by road. On 15th July 2015, IIT Patna moved to its brand-new campus at Bihta, a place about 35 km from Patna. The sprawling 501-acre campus houses four academic complexes for the departments, a classroom complex, tutorial block, students, faculties and staff's residential quarters, hospital, school and an impressive administrative building. The 2015 autumn session in IITP started from the new campus in Bihta.



# ACADEMIC PROGRAMMES



## BACHELOR OF TECHNOLOGY (B.TECH)

**DURATION: 4 YEARS**  
**INTERNSHIP: 2 MONTHS**

The B.Tech programme consists of eight semesters spread over the duration of 4 academic years. For students with a financially weak background, merit-cum-means scholarship is provided by the institute on merit.

## MASTER OF TECHNOLOGY (M.TECH)

**DURATION: 1 YEAR**  
**THESIS DURATION: 1 YEAR**  
**TEACHING/RESEARCH ASSISTANTS: ARE ASSOCIATED WITH COURSE INSTRUCTORS OR RESEARCH PROJECTS.**

The M.Tech programme consists of four semesters spread over the duration of 2 academic years. Eight specializations are offered under the programme, namely, Mechatronics, Mathematics & Computing, Nano Science & Technology, Computer Science & Engineering, Communication System Engineering, Mechanical Engineering, Civil & Infrastructure Engineering, Materials Science & Engineering, VLSI & Embedded Systems.

## MASTER OF SCIENCE (M.SC)

**DURATION: 2 YEARS**  
**PROJECT DURATION: 1 MONTH**

The M.Tech programme consists of four semesters spread over the duration of 2 academic years where it has the following disciplines; Mathematics, Physics and Chemistry. Students are admitted to the M.Sc programme through JAM.

## Doctoral Programme

The Ph.D. Program in IIT Patna has started in engineering, science and humanities & social sciences departments since July 2009. Students enrolled in Ph.D program in IIT Patna are guided to do high quality research. Relevant departments are equipped with state-of-art research equipment and have access to peer reviewed journals. Ph.D. Supervisors in IIT Patna are committed to mentor research scholars and groom them for successful careers.

IIT Patna publishes Ph.D program advertisement twice a year (in the months of March-April and September-October) in internet as well as newspaper. Admission in Ph.D program of

IIT Patna to all categories of students is granted on the basis of interview/admission test held tentatively in the month of December and May - July every year.

IIT Patna also promotes and encourages interdisciplinary research, in which case two or more departments and centers contribute to innovative and cross-boundary research. Faculty members from various departments, centers and schools across the campus are exploring research areas that must involve extensive interaction of different traditional disciplines.





# ACADEMICS

## B.Tech programmes



### Computer Science and Engineering

Software labs well equipped with licensed software  
Hardware lab  
Digital design  
Computer architecture  
Microprocessor interfacing  
SAN storage  
Interfacing devices  
FPGA boards  
Logic design trainer kits

### Mechanical Engineering

Heat & mass transfer lab  
Robotics & automation lab  
Materials testing lab  
Dynamics & vibrations lab  
Instrumentation & control lab  
Advanced manufacturing lab  
Metrology lab  
Fluid mechanics & machinery lab  
Computational fluid dynamics lab  
I.C. engine lab



### Electrical Engineering

Embedded system lab  
VLSI lab  
Broad communication & networking lab  
Communication lab  
RF & microwave lab  
DSP laboratory  
Advanced electrical engineering lab  
Electric machines lab  
Instrumentation & control lab



### Chemical Engineering

Unit operations & fluid flow lab  
Heat & mass transfer lab  
Chemical reaction engineering lab  
Biochemical lab



### Civil Engineering

Structural engineering & concrete technology lab  
Geotechnical engineering lab  
Transportation engineering lab  
Geomatics engineering lab  
Environmental engineering lab  
CAD lab

## M.Tech Programmes

<b>Mechatronics</b> Multi-disciplinary program dealing with the integration of mechanical devices, actuators, sensors, electronics, intelligent controllers and computers.	<b>VLSI Design</b> Very-large-scale integration (VLSI) is the process of creating an integrated circuit (IC) by combining thousands of transistors into a single chip	<b>Civil and Infrastructure Engineering</b> Program is designed to provide in-depth knowledge in design, analysis and implementation of solutions for modern day Civil Infrastructure problems
<b>Computer Science and Engineering</b> Program is intended to fill an existing gap within the industries and academic institution of trained professionals.	<b>Nanoscience and Technology</b> Study and manipulation of matter properties at sub-micron scale for technological applications in general and challenging applications in particular	<b>Mechanical Engineering</b> Program offers core study in Thermofluids stream, Solid Mechanics & Design stream.
<b>Mathematics &amp; Computing</b> Program imparts rigorous training in fundamental areas of Computer Sciences and Mathematics.	<b>Communication System Engineering</b> Program exposes the students in the field of advanced digital communication, wireless communication etc.	<b>Materials Science &amp; Engineering</b> Program deals in the relationship between the structure, property and processing of materials.

## M.Sc Programmes


<b>Mathematics</b> Mathematics is at the heart of advances in science, engineering and technology, as well as being an indispensable problem-solving and decision-making tool in many other areas of life	<b>Chemistry</b> The branch of science concerned with the substances of which matter is composed, the investigation of their properties and reactions, and the use of such reactions to form new substances.	<b>Physics</b> Physics is a natural science that involves the study of the matter and its motion through space time, along the related concepts of the energy and the creation of energies.
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## Ph.D Programmes

Ph.D is offered in all the major disciplines in Engineering, Science and Humanities. The streams of research in engineering include


<ul style="list-style-type: none"><li>• Computer Science and Engineering</li><li>• Electrical Engineering</li><li>• Mechanical Engineering</li><li>• Civil Engineering</li></ul>	<ul style="list-style-type: none"><li>• Chemical and Bio-chemical Engineering</li><li>• Materials Science &amp; Engineering</li><li>• Physics</li></ul>	<ul style="list-style-type: none"><li>• Chemistry</li><li>• Mathematics</li><li>• Humanities and Social Sciences</li></ul>
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# STUDENT ACTIVITIES



### NJACK


NJACK is the Computer Science club of IIT Patna. It is aimed at improving computer technology and coding culture among the student fraternity of IIT Patna by conducting several workshops, events and competitions.



### SPARKONICS

The club works to introduce students to advanced technical platforms and provide them with a plethora of practical projects.

Students gain an early hands-on approach with different technical fields like electronics, embedded systems, communications to name a few. The club also organizes workshops and technical events regularly.



### E-CLUB

The club was established with a vision to ignite and inculcate the spirit of entrepreneurship among the students, to encourage them to explore the business side of the products they develop.

Regular workshops, lectures are organized that aim to facilitate exchange of knowledge. Guests from the start-up world are invited to share their experiences with the community.



### DSC

Developer Student Club trains student developers to work with their communities to solve real-life problems.

Google collaborates with university students who are passionate about growing developer communities and supports them with starting student clubs on their campuses.





## ACE

The club works to expose the students to advancements in Civil Engineering and provides an environment to achieve milestones in Civil Engineering research. The club organizes programs, workshops, lectures to facilitate exchange of information and informal interaction within the civil engineering community.



## CHESSx

Chemical Engineering is a highly open-ended and flexible area of study with branches extending to economics, biotechnology, electronics, policy making and much more. The CHESSx society is aimed at providing the right support to produce the best chemical engineering graduates of tomorrow. It promotes interaction within the department and implements academic, social and other programs of interest to its members.



## SCME

SCME was founded with the motive of engaging and encouraging Mechanical Engineering discipline related activities in IIT Patna. Since its inception, SCME has been conducting events, lectures and workshops round the year for the benefit of mechanical engineering students. SCME is proud to have developed many projects on Mechanical engineering, Robotics, Automobiles and many more.



## TINKERER'S LAB

This club primarily aims to allow free thinking and practical experience without barriers or having the need to take serious permissions. It caters for enthusiasts and idea holders by converting their creative ideas into engineering products. At tinkerer's lab, one can have limitless hands-on experience and spend hours tinkering without any worries.



Here at IITP, **Sports** are just as important as academic aspirations. Students represent the institute every year in the Inter IIT Sports meet, and other competitions. Experienced coaches help the students reach levels of athleticism, agility, skill and endurance.



**House of Socio-Cultural Affairs**, prevalently known as HoSCA promotes a vibrant and eclectic campus experience through organizing multifarious activities pertaining to the cultural events, bringing students from all walks, interests, and ethnicity together in ways that stimulate lifelong learning and community interaction.



**Anwesha** is a 3-day Techno-Cultural extravaganza held every year in spring. It involves student volunteers who work by interest and promote creativity through their organization and organize various fun events and activities, thus making it a quest for everyone to experience and enjoy!



The **National Service Scheme** of IIT Patna is an initiative to bring about a change in the Social and Economic forms of the Society. The Scheme runs with a motive to inculcate social responsibility in the youth who will be tomorrow's work force of the Nation at Institute Level



**Celesta** is the annual Techno-Management Fest of IIT Patna. Every year Celesta is a host to a plethora of events and competitions with active participation from students all over India, especially from North-East.









# PLACEMENT PROCEDURE



The TPC sends invitations to the companies.



Company fills up job announcement forms (JAF)



Date for pre-placement talks is finalized by TPC in consultation with the companies.



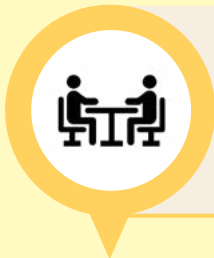
Students register for various companies.



Companies' officials conduct pre-placement talks.



A Placement Schedule is finalized by the TPC in consultation with the companies.



Placement session begins and company evaluate the students.



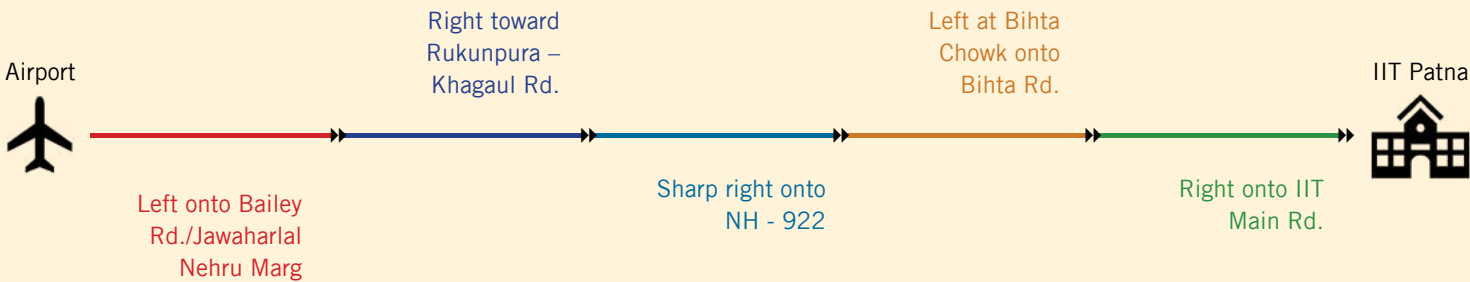
List of selected students along with the offer letter is sent to the TPC. Placement session ends.

# REACHING IIT PATNA

## JAY PRAKASH NARAYAN AIRPORT TO IIT PATNA



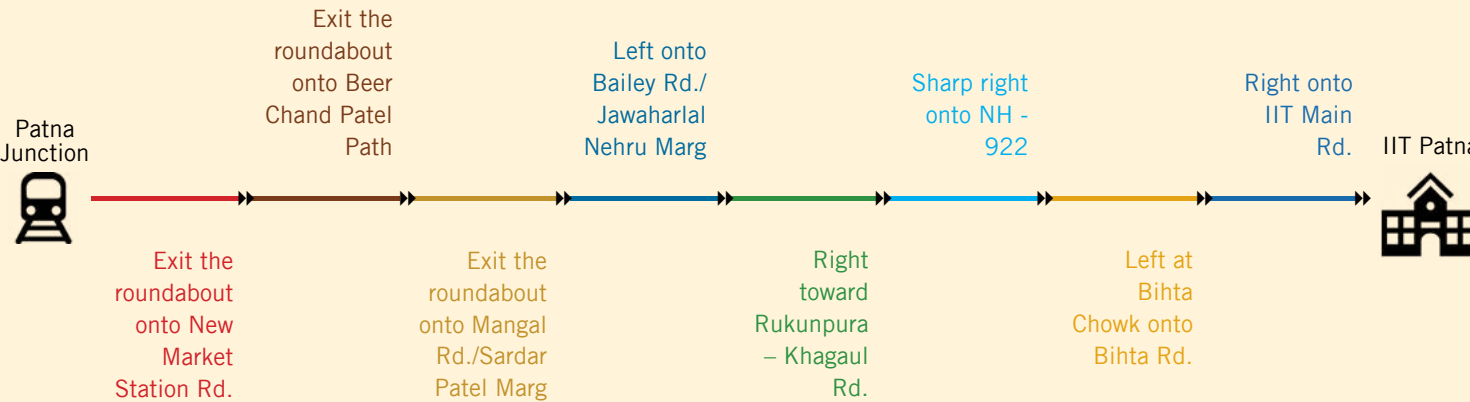
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## PATNA JUNCTION TO IIT PATNA



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# RECRUITERS

AAUDF
Accenture
Addverb Technologies
Adobe
Adrosonic IT Consultancy Services
Aishra Technofab Engineers
Amazon India
Amrita University
Angel Broking
Arcesium India Pvt. Ltd.
Arista Network
Axiom (Namekart)
Axxela Advisory
Baldor Technologies (IDfy)
BIT Sindri
Bosch Singapore
Burger Singh (Tipping Mr.Pink)
Cadence Design Systems
Capgemini
CEWiT
ChironX
CodeNation
Cognam Technologies
Cognizant Technology
Conduent India
CV Raman Engg. College (CVRCE)
DE Shaw (DESIS)
Delhivery Pvt. Ltd.
Deloitte
Directi (Flock & Media.Net)
Dolcera

Endeavor Careers Pvt. Ltd.
ESSI Integrated Technologies Pvt. Ltd.
ET Medialabs Pvt. Ltd.
Euler System
ezDI
Finisar
Flow Trader - Aquan
Fluke Corporation
Force Motor
FUJIFILM Software Co. Ltd.
Future First
Goldman Sachs
Google
Green Stack
Handzap Software
HPCL
Increff
India Wealth Management
Indian Oil (IOCL)
InfoEdge
Infosys
Inspired Automation Future Tech.
Intel Corporation
iRage Capital
ISRO
J K Technosoft
JECRC University,Jaipur
KEC International
KIIT University
Kota Talent Academy (KTA)

KPIT
LinkedIn Inc.
LoanSimple
Logic Fruit Technologies Pvt. Ltd.
Mahavir Cotton
Mahindra & Mahindra (M & M)
MakeMyTrip (MMT)
Makino Auto
Maruti Suzuki
Mathworks
Maven - Aquan
MediaTek
Meerut Institute of Engg. & Tech.
MIC College
Microsoft
Miles Software Solutions Pvt. Ltd.
Milvik
Mojo Networks
NIIT University
Nobel Sanrachna Pvt. Ltd.
Optiver - Aquan
Optum (UHG)
OYO Rooms
P2Power
Palc Network
Pine Labs Pvt. Ltd.
Pricol
Raisoni Group of Institutions
Rao Edusolutions Pvt. Ltd.
RBL Bank
Reliance JIO



Resonance Eduventures Ltd.	Soroco India	TVS Motors
Rural Electrification Corporation Ltd.	Stanza Living	Uber Technologies Inc.
Saavn Media Pvt. Ltd.	Starhome Mach	Valued Epistemics Pvt Ltd (GREedge)
Samsung Electronics Co. Ltd. - Noida	STMicroelectronics Pvt. Ltd.	VE Commercial Vehicles Ltd. (Volvo)
Samsung R&D- Noida	Strand Life Science	Vidyamandir Classes (VMC)
Samsung R&D- Delhi	Tata Motors	VISAT
Sandip University, Nasik	TCS-CTO	Webstaff
Sapient	Tejas Networks	Western Vindhya
Shezar Web Technologies Pvt. Ltd.	Tektronics	Wipro
Siemens Technology and Services	Thinketh Labs	WiSig Networks
Sigmoid Analytics	TimeTooth Technologies Pvt. Ltd.	Yellow Messenger
Skydeploy Flight System	TINI, Tata Trust	ZS Associates
Smartprix Web Pvt. Ltd.	TRAI	
Smatron	Transweb Solutions	
	Tricon Infotech	

# INTERNSHIPS

ACADEMIC INTERNSHIPS	INDUSTRIAL INTERNSHIPS
<ul style="list-style-type: none"><li>Stanford University, USA</li><li>University of New South Wales, Australia</li><li>LIMS, Orsay, France</li><li>University of Tokyo, Japan</li><li>TU Darmstadt, Germany</li><li>NTU, Singapore</li><li>NUS, Singapore</li><li>HPC, Singapore</li><li>University of Denver</li><li>Indiana University Maurer School of Law-Centre, USA</li><li>National Tsing Hua University, Taiwan</li><li>Singapore University of Technology</li><li>IISc Bangalore</li><li>IIT Bombay</li><li>Pennsylvania State University</li></ul>	<ul style="list-style-type: none"><li>Maruti Suzuki</li><li>Tata Iron and Steel</li><li>Larsen &amp; Toubro</li><li>Microsoft</li><li>Adobe</li><li>DRDO</li><li>NTPC</li><li>BHEL</li><li>IRCON</li><li>Qualcomm</li><li>HPCL</li><li>IOCL</li><li>Bosch</li><li>BSNL</li><li>CISCO</li><li>Amazon</li><li>Google</li><li>NextOrbit</li><li>Cadence</li><li>Mahindra &amp; Mahindra</li><li>BARC</li></ul>

# STUDENT EXPOSURE

















# STUDENT REPRESENTATIVE

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