

INDIAN INSTITUTE OF TECHNOLOGY PATNA



Information Brochure for M.Tech. and Ph.D. Programme for International Students



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I. Important Guidelines for M.Tech/ Ph.D. Admission for the Foreign Nationals

1. Please read the instructions given in the Information Brochure carefully before filling up the application form. (available at www.iitp.ac.in).
2. The completed application form, application fee and attested copies of mark sheets/certificates along with other necessary enclosures (if any) should be sent to the Associate Dean Resource, Indian Institute of Technology Patna, Bihta, Kanpa Road, District - Patna, Bihar, PIN – 801106. The words “Application for PhD/M.Tech. Admission in the Department of _____” should be written on the top of the envelope for sending the completed form.
3. A non-refundable application fee of US \$ 20 is to be paid through traveler’s cheque/banker’s cheque/demand draft in USD or equivalent in INR in favor of Registrar, IIT Patna. Candidate must write his/her Name, Department applied and Email address on reverse side of the traveler’s cheque/banker’s cheque/demand draft.
4. A candidate can submit multiple applications, if he/she wishes to apply to more than ONE Programme by paying separate application fee. The application form should be completed in all respect; incomplete application will not be considered.
5. Please refer to the Institute website http://www.iitp.ac.in for details about results and other important announcements.
6. Important communication and announcement will be made through the Email Id provided in the application form.

II. Important Dates for PhD admission:

1. Schedule of Admission in Autumn Semester: begins in July

<u>SL.No</u>	<u>Particulars</u>	<u>Dates</u>
1.	Availability of application forms	throughout the year
2.	Last date for submission of completed application form	30 th April
3.	Declaration of Result	30 th May

2. Schedule of Admission in Autumn Semester: begins in January

<u>SL .No</u>	<u>Particulars</u>	<u>Dates</u>
1.	Availability of application forms (online)	throughout the year
2.	Last date for submission of completed application forms	30 th September
3.	Declaration of Result	30 th October

III. Important Dates for M.Tech. admission

Schedule of Admission in Autumn Semester: begins in July

<u>SL .No</u>	<u>Particulars</u>	<u>Dates</u>
1.	Availability of application form	throughout the year
2.	Last date for submission of completed application forms	15 th April
3.	Declaration of Result	20 th May

1. GENERAL INFORMATION

1.1. THE INSTITUTE

Indian Institute of Technology Patna is one of the new IITs established by an Act of the Indian Parliament on August 06, 2008. Patna which was known as Patliputra has been a center of knowledge since long has been attracting visitors and scholars from many parts of the world such as China, Indonesia, Japan, Korea, Sri Lanka, among others. This has been a land of visionaries. Some of the legends from this region include Lord Gautam Buddha, Lord Mahavir, Guru Gobind Singh, the famous astronomer Aryabhata and the first President of India, Dr. Rajendra Prasad.

IIT Patna has ten departments: These are Computer Science & Engineering (CSE), Electrical Engineering (EE), Mechanical Engineering (ME), Chemical and Biochemical Engineering (CBE), Civil & Environmental Engineering (CEE), Materials Science & Engineering (MSE), Chemistry, Physics, Mathematics and Humanities & Social Science departments. Budding research scholars are

admitted in the PhD program of this Institute in all ten (10) departments. IIT Patna provides M.Tech degrees in nine (9) different Departments.

IIT Patna campus is located at Bihta which is approximately 40 km from Patna. For driving directions and contact details, please point your browser to the following link:

<http://www.iitp.ac.in/index.php/contact.html>

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:

Research activity in IIT Patna has been published in high quality and peer-reviewed national and international journals. Please browse individual faculty member web-page for more information.

1.2. Post Graduate Programme Offered to Foreign Nationals

1.2.1 Ph.D. Programme

With extensive infrastructural facilities and a sound research base, the Institute offers Ph.D. programme in a wide range of areas in Engineering, Sciences and Humanities & Social Sciences. The broad objectives of the Ph.D. programme are to contribute to expanding the frontiers of knowledge and to provide research training.

The academic programme leading to the Ph.D. degree is broad based and involves a course credit requirement and a research project leading to thesis submission. The Institute also encourages research in interdisciplinary areas through a system of joint supervision and interdepartmental group activities. The Institute undertakes sponsored research and development projects from industrial and other organizations.

1.2.2 Eligibility criteria for Ph.D. Programme

Students holding foreign passports (including persons with OCI or PIO cards) will be eligible to apply for this scheme. Students who are in the final year of their degree are also eligible to apply.

PhD in Engineering (CSE, ME, EE, CBE, CEE, MSE)	<ol style="list-style-type: none">1. Candidates having M.Tech./M.E. degree in Engineering/Technology in a relevant area with a minimum CPI of 6.5 or 60% of marks.2. Bachelor's degree in Engineering/Technology in a relevant area with a minimum CPI of 8.0 or 75% of marks.3. Master's degree in Science in a relevant area with a minimum CPI of 7.5 or 70%.
PhD in Science (Physics, Chemistry, Mathematics)	<ol style="list-style-type: none">1. M.Phil. or Master's degree in Science in a relevant area with a minimum CPI of 6.5 or 60% of marks2. Master's degree in Engineering/Technology in a relevant area with a minimum CPI of 6.5 or 60% of marks3. Bachelor's degree in a related area in Engineering/Technology in a relevant area with a minimum CPI of 8.0 or 75% of marks.
PhD in Humanities and Social Sciences	<ol style="list-style-type: none">1. M.Phil. or Master's degree in Arts/Commerce/Science in a relevant area with a minimum of 55% marks or equivalent2. Master's degree in Engineering/Technology/Design in a relevant area with a minimum CPI of 6.5 or 60% marks.3. Bachelor's degree in Engineering/Technology in a relevant area with a minimum CPI of 7.5 or 70% marks.

Age Limit:

In all the disciplines, the upper age limit is 28 years (B.Tech./B.E./MA/M.Sc./MCA) and 32 years (M.Tech./M.E./M.S./M.Phil.). For Research/project fellows, age limit will be as per the funding agency norms. In absence of any age criteria, the above mentioned age criteria will be followed.

1.2.3 M.Tech. Programme

The institute offers nine (9) different M.Tech. Programme in core and interdisciplinary areas. They are Mechatronics, Mathematics and Computing, Nanoscience and Technology, Computer Science & Engineering, Communication System Engineering, Mechanical Engineering, Civil and Infrastructure Engineering, Materials Science & Engineering, and VLSI & Embedded Systems.

1.2.4 Eligibility Criteria For M.Tech Programme

The programme is open to candidates with Bachelor's Degree in Engineering / Technology/ M.Sc. or equivalent professional degrees in specialization as mentioned in table below. Candidates seeking admission to M.Tech. Programme of the Institute shall have to possess a minimum of 60% marks (or a CGPA of 6.5 in 10 point scale) or equivalent in the qualifying degree.

M.Tech. in Mechatronics	B.Tech./B.E. degree in Mechanical / Production /Aerospace/ Electrical/ Electronics & Communication/ Instrumentation Engineering or MSc in Electronics and Instrumentation
M.Tech. in Mathematics and Computing	M.Sc. in Mathematics/Statistics/Mathematics & Computing or Equivalent or B.Tech./B.E. degree in Computer Science/IT/ECE/Aerospace Engineering/ Maths & Computing or Equivalent
M.Tech. in Nanoscience and Technology	M.Sc./Equivalent in [Nanoscience, Chemistry (Pure/ Applied), Physics, Applied Physics/ Solid State Physics/ Engineering Physics/ Biophysics/ Polymer Science/ Material Science] or B.Tech./Equivalent degree in [Engineering Physics/ Polymer Engineering/ Materials & Metallurgical/Materials/Mechanical/Electronics/Electrical Engineering]
M.Tech. in Computer Science & Engineering	B.Tech./B.E. degree in Computer Science/Information Technology

M.Tech. in Communication System Engineering	B.Tech./B.E. degree in Electrical Engineering/Electronics & Communication.
M.Tech. in Mechanical Engineering	B.Tech./B.E. in Aerospace, Aeronautical, Automobile, Production, Manufacturing or Mechanical Engineering
M.Tech in Civil and Infrastructure Engineering	B.Tech/B.E. degree or equivalent in Civil, Infrastructure, Construction Engineering
M.Tech. in Materials Science & Engineering	B.Tech./B.E. degree in Materials, Metallurgical & Materials, Chemical, Ceramics, Polymer/Rubber, Mechanical, or MSc./Equivalent in Physics, Applied Physics, Chemistry, Applied Chemistry
M.Tech in VLSI & Embedded Systems	B.Tech./B.E./B.Sc. (Engineering) degree in Electrical/Electronics/Communication/Instrumentations Engineering/Computer Science & Engineering

Age Limit:

In all the disciplines, the upper age limit is 28 years (B.Tech./B.E./M.Sc./MCA). For Research/project fellows, age limit will be as per the funding agency norms. In absence of any age criteria, the above mentioned age criteria will be followed.

1. APPLICATION CATEGORIES AND FINANCIAL SUPPORT

1.1. APPLICATION CATEGORY

Foreign Nationals can seek admission to various Postgraduate and Research Programmes at IIT PATNA under the following categories

- **SELF SPONSORED**

The candidates in this category will be those who do not have any financial support and will have to bear all expenses on their own. On approval/selection of student by concerned department/centre, Office of international relation (IR) will request the student to send a signed statement from the student certifying that he/she will bear all the charges including the tuition fees, accommodation, food charges and all other incidental charges during the course of their stay at IIT Patna. He/she will also bear travel cost from his/her home country to India (Patna). Student should attach either a bank statement showing that they have enough finances in their own bank account or a letter from their parents or sponsors certifying that they will support all the expenses incurred by the student as mentioned above.

- **GOVERNEMENT SUPPORTED (FOREIGN/ ICCR)**

These candidates will be supported by their foreign governments under some MoUs or sponsored by any government or supported by cultural exchange programme (ICCR). In case of foreign sponsorship, the application should be submitted to IIT Patna, either by the candidate or the sponsoring authority. In case the candidate is found suitable for admission, an offer letter will be sent to him/her or to the sponsoring authority (as applicable). Candidates desirous of admission under ICCR Fellowship Programme are required to apply through the Indian High Commission/Embassy as the case may be, in their respective Countries. They will send the application to ICCR, Government of India and then ICCR will forward the application/s to IIT Patna for consideration. In case the candidate is found suitable for admission, an offer letter will be sent to him/her through Indian Council for Cultural Relations, New Delhi. On approval/selection of student by concerned department/centre, Office of international relation (IR) will request the student to send a letter of recommendation from the Govt. certifying that fees will be paid by the Govt.

• PROJECT

After selection, student may seek scholarship to individual faculty. Based on the provision (of the projects) for giving scholarship to the foreign nationals and upon mutual agreement between student and faculty, scholarship can be given to students admitted to M.Tech and PhD (for project period only) at IIT Patna.

1.2. FINANCIAL SUPPORT

Financial Support may only be available to candidates with funding from foreign government or ICCR. Candidates need to seek financial support on their own; however, institute will help them in all possible ways. IIT Patna will not provide any financial support. However, a partial/full waiver in fee may be provided to some deserving candidates.

2. DOCUMENTS REQUIRED

Foreign students applying for the Ph.D./M.Tech Program require to submit the following documents:

- I. Filled Application form
- II. Application Fees
- III. Self attested copies of :
 - (a) Mark Sheets/certificates (from class X to Highest degree obtained/appeared), (both sides)
 - (b) Certificate related to any fellowship (both sides)
 - (c) Professional experience certificate (if any) (both sides)
 - (d) Any other testimonials (both sides)
- IV. Photo copy of Passport of 1st & last page.

3. VISA REQUIREMENTS

Students admitted for M.Tech/ Ph.D. program must have a Study/ Research Visa

4. MEDICAL FITNESS REQUIREMENT

It is advisable that the candidates get a general check up done before departure, to ensure that he/she do not suffer from any major ailments. They should get vaccinated against the following diseases, before reporting to IIT Patna,

- i. Typhoid
- ii. Hepatitis A
- iii. MMR – 1 dose after age of 15 years
- iv. Chickenpox
- v. DT (diphtheria and tetanus)

Only those candidates, in whom vaccination is medically contraindicated, would be exempted from these vaccinations on production of medical certificate. They are also requested to submit the "Vaccination Certificate/Vaccination Exemption Certificate" at the time of registration. They may be allowed to register with the partial vaccination, if done. However, he/she will be required to complete the vaccination during the first semester. Registration for the second semester will be subject to complete vaccination as required.

5. FORMALITIES AFTER FOREIGN STUDENTS JOIN THE INSTITUTE

5.1. PAYMENT OF FEES AND DEPOSITS

Fees Structure:

Particulars	Fees
Admission Fee	US\$ 300
International Students Association	US\$ 50
Security Deposits (Refundable)	US\$ 150
TOTAL	US\$ 500

(for students from other than SAARC countries)	
<u>Tuition fees</u>	US \$ 1500
(for students from SAARC countries)	
<u>Tuition Fees</u>	US \$ 850
(for students from Self Sponsored Category)	
<u>Tuition Fees</u>	INR 7000

Living expense is \$ 500 and \$ 600 per semester for SSARC and Non SAARC respectively.

5.2. REGISTRATION FOR THE M.Tech. / Ph.D. DEGREE

INSTITUTE PG PROGRAM NORMS WILL BE FOLLOWED

Candidates are advised to visit the following link for understanding of M.Tech and PhD programme rules of the institute.

M.Tech. Rules: <https://www.iitp.ac.in/acad/files/M.Tech-Ordinance.pdf>

Ph.D. Rules: https://www.iitp.ac.in/acad/files/phd_ordinance.pdf

Note: The competent Committees of the Departments are the ultimate decision makers in accepting the student.

6. ACCOMMODATION AND STUDENT ACTIVITIES

Hostel accommodation with mess facility is available on the IIT Patna campus for students, together with facilities for sports and cultural activities, in addition to the academic infrastructure. Students can contact the Office of Dean/ Associate Dean Resource for more information regarding

the stay of foreign students in the IIT Patna campus. General information regarding student's amenities is given below.

Students' Gymkhana

The students' gymkhana of IIT Patna (established in 2008) is the Students' Governing Council consisting of the elected student representatives working for the over-all wellbeing and holistic development of students in the institute.

The elected representatives of the students from each hostel strive to foster growth and leadership among the students by coordinating various events helping



to extract the maximum of one's talent. To promote the co-curricular activities and interests, the gymkhana has many clubs and groups dedicated to the interests of the students.

Sports at IIT Patna bring together relaxation and competition getting the best of every player. It organizes various inter-hostel and inter-department competitions.

The blending of different cultures has lent uniqueness to the cultural activities which are organized throughout the year. The organization of various workshops, seminars and various technical activities at IIT P makes learning an enjoyable experience.

IIT Patna currently has one boys' hostel and one temporary girls' hostel in the campus. It also has necessary arrangements for married research scholars. More boy's and girl's hostels are in the process of construction. The boys' hostel is at a distance of about 1KM from the academic complex and the girls' hostel is situated near the faculty quarters, about 3 KMs from academic complex. Presently over 1200 students are residing in the hostels. Regular bus services have been provided from the hostels to and the academic buildings. Students have access to Wi-Fi connectivity throughout the buildings. The hostel is equipped with gymnasium, TV room and table tennis facilities. Campus has a basketball court,

a volleyball court, and badminton court. A football-cum-cricket ground will also be available very soon. There are two students' mess in boys' hostel and one mess in the girls' hostel, along with various food joints and canteen in the Food court. The students elect a student body once every year in the month of April.

Buildings

The boys' hostel building is an 8-storey structure divided into 4 blocks viz. A, B, C, D. It's spread onto an area of 28849 Sqm. It has 912 rooms, all with a balcony, window, cupboard, and enough niches. The hostel has two common rooms used for recreational and co-curricular activities and a gymnasium. There are total of 6 lifts in the building. Water coolers are installed on each floor.



Fire extinguishers and other safety measures are taken care of. There are seven more such boy's hostels and 2 girl's hostels are proposed in the plan

Gymnasium

Boys' hostel has a gymnasium on the first floor alongside the common room. It has all the basic exercise equipment like dumbbells, barbells, bench press, etc. It also has other major equipment like treadmills, exercise bike, squat station, hammer strength machine, cables and pulley, lat pull down machine, leg extension machine and few more.

Mess

Boys' Hostel has two mess halls on the ground floor and girls' hostel has one. They provide breakfast, lunch, snacks and dinner. Messes follow a specific menu for the week. Every month, the mess menu gets changed.

Coffee/tea is provided in the breakfast and snacks time. Students elect a mess secretary from all the years to look after mess related issues. Messes are kept clean and work in hygienic conditions.



IT Facility:

IT Infrastructure: IT Patna has a state of the art computer center. There are two computer center labs, CC-1 and CC-2. CC-1 is equipped with 172 desktops and CC-2 is equipped with 42 Desktops. These labs operate from 9:00 AM till 12:00 PM on all seven days. In addition there are twelve UNIX/Linux/VMware based servers that caters to the institute IT services like Mail, Institute Web server, Intranet, Online recruitment and admissions and students' academic requirements and research purpose. Availability of the servers and resources is ensured with power back up provided by UPS grid.



A local area network with IP telephony is catering to the needs of students, faculty and staff in academic as well as residential areas. Dedicated NKN (National Knowledge Network) link provides for state of the art virtual classroom service as well as internet. High speed and uninterrupted internet access is provided across the campus to everyone through multiple ISP (Internet Service Provider) leased lines provided by RailTel, Reliance and NKN.



Library

Library: The Central Library of IIT Patna is one of the advanced library in terms of its collection and services. Central Library caters to the information needs of faculty members, students, research scholars as well as staff of the Institute, by offering a wide range of Information Technology (IT) based (and value added) services and products. This library is equipped with modern technology of library automation system with Online Public Access Catalogue (OPAC) and Self Check-In and Shelf Check-Out (Drop Box) system using RFID technology. The Library has 50 computers for accessing the different e-resources of the library.

Database:

Automated central library: **Books till now:** 18848,

E Journals: 5500, **E Database:** 05, **E Books:** 25000.



Contact Details:

IR Cell, Office of Associate Dean Resource, Admin Block, Indian Institute of Technology Patna, Bihta, PIN – 801106, Bihar.
Ph.: +91- 612 302 8644 / 8654; Email Id: res_office@iitp.ac.in / adean_resource@iitp.ac.in