



National Institute of Technology Patna

(An Institute under Ministry of HRD, Govt. of India)

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(ACADEMICS SECTION)

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ADMISSION NOTICE

ADMISSION NOTICE for Ph. D Programme – Odd Semester (July-Dec' 2018) during the session 2018-19

National Institute of Technology Patna invites application for admission to Ph. D Programme through Institute Admission Test and/or Interview during Odd Semester (July - December' 2018) for the Session 2018-19 in the following departments as detailed below:

Departments	Doctoral Program: Area of Specialization
1. Architecture	Architecture, Urban Planning, Rural Planning, Climate change, Regional Planning, Architectural Conservation, Heritage Management, Sustainable Architecture, Structural forms in Architecture, Environmental Planning, Vernacular Architecture, Housing
2. Civil Engineering	Structural Engineering, Transportation Engineering, Water Resource Engineering, Environmental Engineering, Geotechnical Engineering,
3. Computer Science & Engineering and Information Technology	Threat Analysis, Big Data, Internet of things, Data Networks, Machine Learning, Social Media, E-Learning Systems, Opinion Mining, Recommendation System, Semantic Web, NLP, Information Security , Biometric authentication, Bioinformatics, Algorithms, Sensor Network, Network Algorithms, Computational Geometry, Data Mining, Neural Network, Artificial Intelligence, Optimisation Technique, Intelligence Computing Methods and Application, Expert System, Network Security, Distributed Systems,
4. Electrical Engineering	Power System, Control System, Power Electronics, Electric Drives Control, Application of renewal energy in power system
5. Electronics and Communication Engineering	Optical and wireless Communications, Signal Processing, VLSI, RF, Microwave millimetre-wave and THz devices, circuits and Systems, Meta-materials and Meta-surfaces.
6. Mechanical Engineering	Thermal, Production, Manufacturing, Gas Dynamics Industrial, Design, Solid Mechanics, Surface Engineering, Renewable Energy, Dynamics and Control, Fluid Power System & Operation Management.
7. Chemistry	Chemistry, Applied Chemistry, Material Science & Technology, Bio-Chemistry, Environmental Science, Analytical Chemistry, Bio-Technology, Nano Technology, Chemical Science & Technology, Polymer Science & Technology, Pharmaceutical Science
8. Humanities and Social Science	English: Nineteenth Century English Novelists, Literary theories, Renaissance Drama, Social Studies and Science And Technology Romantic Poetry, Economics: Agriculture, Labour & Employment, Development Studies, Finance HRM: Human Resource Management, Psychology: Organisation Behaviour, Human resource, Industrial Psychology.
9. Mathematics	Analysis, Numerical Analysis, Algebra, Topology, Differential Equations, Fluid Dynamics, Probability & Statistics, Bio Mathematics,
10. Physics	Experimental Condensed Matter Physics, Quantum Information & Cryptography, Quantum Computation, Nanotechnology, Bio Sensors, Thin Films and ion beams, Material Science, High Energy Physics, Black Holes

CATAGORIES

Applicants will be eligible for admission to the Full- Time / part-time Ph. D. Programme of the Institute and Full-time Ph.D. programme under Visvesvaraya PhD scheme. Seats under this scheme are available for CSE/IT (One seat for Full Time) and ECE (one seat for Full time) branch only. For more details about *Visvesvaraya PhD scheme*, please visit <https://phd.medialabasia.in/>. Selection process, Admission Fees, requirement for awarding PhD. etc. will be guided by PhD regulation of NIT Patna.

The applicants seeking admission to the Ph.D. programme shall be classified under any one of the following categories.

(i) Full Time Ph.D Programme:

- a) With Scholarship - Funded by NIT Patna
- b) With direct financial support from Govt. / Semi Govt. agencies such as CSIR, UGC, DST, DAE, etc.
- c) Full time Sponsored employee of PSU, Government department, R&D organization, Industries of repute, Faculties of the Educational institutions and sponsored defence personnel with a minimum relevant experience of 2 years may be considered for admission as a sponsored full-time research scholar.
- d) Sponsored applicants will be eligible for admission, if they are treated by their employers as on-deputation with their full salary and allowances and are relieved from their organization/ institute for a minimum period of two years.
- e) Sponsored applicant will be eligible for admission, if they are treated by their employers as on-deputation with their full salary and allowances and are relieved from their organization/ institute for fulfillment of minimum residential requirement, if any.
- f) The sponsored candidates are exempted from GATE/ NET qualification, but they should possess the minimum entry qualification fixed by the institute as per eligibility criteria for full time candidate selection. These candidates may be exempted from the Screening written test for admission. However, they have to undergo through the technical interview to access their knowledge required in the field of their research interest.
- g) Sponsored applicants have to submit NOC from their employer and shall be considered against supernumerary seats, and shall not be counted against open seats notified for admission to the program.

(ii) Part Time: without Scholarship

- a) Sponsored employee of PSU, Government department, Research/ Development organization, Industry of repute, Educational institutions Faculty, employees under MoU, sponsored defence personnel, Faculties of the educational institutions etc.
- h) The sponsored candidates are exempted from GATE/ NET qualification, but they should possess the minimum entry qualification fixed by the institute as per eligibility criteria for part time candidate selection. These candidates may be exempted from appearing at Screening written test for admission. However, they have to undergo through the technical interview to access their knowledge required in the field of their research interest.

- b) They have to submit NOC from their employer.
- c) Admitted candidate shall be considered against supernumerary seats, and shall not be counted against open seats notified for admission to the program.

SEAT MATRIX / RESERVATION DETAILS

Department	Seat Allotted	UR	OBC-NCL	SC	ST	PH
ECE	8	4	2	1	1	0
Electrical Engineering	8	4	2	1	1	0
CSE	8	4	2	1	1	1 (Horizontal)
Civil Engineering	9	4	3	2	0	0
Mechanical Engineering	9	5	3	1	0	0
Architecture	4	2	1	0	1	1 (Horizontal)
Mathematics	4	2	1	1	0	1 (Horizontal)
Physics	4	2	1	1	0	0
Chemistry	4	2	1	1	0	0
HSS	2	1	0	0	1	0
Total	60	30	16	9	5	3

ELIGIBILITY CRITERIA FOR SELECTION

Candidates with following qualification will be eligible for admission to the Ph. D. Programme of the Institute.

- (i) M. Tech./ M. E./ M. Arch/ M. Planning/ M. Design/M. Sc./M. Com./ MBA/ MA or equivalent degree in **relevant** and related discipline, with at least 6.5 CGPA (in the scale of 10) or 60 percent marks in aggregate from a recognized technical institute or university. Previous degree may also be in related discipline.

Candidates with M. Tech/ M.E/ M. Arch/ M. Planning/M. Design/ M. Sc./ M. Com./ MBA/ MA or equivalent degree from IITs/ NITs/ CFTI/ SFTI or Central/ State University in relevant discipline are required to produce a proof of having qualified GATE/ JAM/ JEST/ CAT or equivalent national eligibility test while taking admission in the master degree in the relevant discipline OR has qualified in one of the national eligibility test. The sponsored candidates are exempted from GATE/ NET/National level Test qualification.

- (ii) B. Tech/ B.E./ B. Arch or equivalent degree in relevant discipline with at least 8.5 CGPA (in the scale of 10) or 80 percent marks in aggregate from a recognized technical institute or university, with a GATE/ NET/ JAM/ JEST qualifying score is mandatory. The sponsored candidates are exempted from GATE/ NET/National level Test qualification. Candidates must have passed the qualifying examination in Single attempt without any backlog or failure in any semester from IITs/ NITs/ CFTI/ SFTI or Central/ State University
- (iii) The minimum CGPA/ marks percentage shall be relaxed by 0.5 CGPA or 5 percent in case of candidates belonging to the SC/ ST/PwD categories in all cases.

Admission Procedure and Other Details:

Admission to the Ph. D. Programme shall be made by the Institute based on minimum eligibility criteria for the programme and selected after evaluation of the candidate in Screening written Test and/or selection Interview conducted by the respective Admission Committee.

Candidates' name with application number, fulfilling minimum eligibility criteria for admission to the respective department and programme will be displayed on the Institute website as per admission schedule.

Admission Committee of the respective department will conduct screening written Test and/or Selection Interview. The final selection will be done after Selection Interview.

A merit list is prepared after written test and interview and admission is strictly based on merit subject to verification of documents and original certificates.

Important Information for Candidates

- i. A candidate can apply online for more than one department, if he/she is eligible for that discipline. However, he/she has to apply separately.
- ii. A candidate is required to appear for Admission Test and/or Interview separately for all departments for which he/she has applied.
- iii. **Application number allotted to candidates will be their Roll No. for any future reference.**
- iv. **No separate acknowledgment or call letter will be sent by the institute for attending the Admission Test/ Interview/ Counselling.**
- v. **As no separate Admit Card is issued for the admission Test, hence the candidates are directed to bring any standard Photo I-Card (in Original) with a photocopy thereof, such as, Aadhaar Card, PAN Card, EPIC, Driving License, I-card issued by their Employer, or any Govt./ Public Sector Organization etc.**
- vi. **Candidates reporting without any standard I-Card (in original) as stated above shall not be allowed to appear at admission Test.**
- vii. Candidates **must report in the Institute at least 30 minutes before start of admission Test** else they will not be allowed to appear at the written Test.
- viii. Candidates are advised to visit the Institute website www.nitp.ac.in for regular updates.
- ix. The name of the short listed candidates eligible for the Interview shall also be displayed on the Institute website.
- x. A candidate shall be considered for written examination / Interview even if the result of the qualifying examination is awaited. If selected, such candidates will be allowed to join the programme provisionally. He/she is required to ***submit a certificate copy from their Principal/Registrar stating that the candidate has completed all course requirements for obtaining the qualifying degree for admission in Ph. D Programme, at the time of written examination/ Interview.***
- xi. However, provisional degree certificate and marks sheet of qualifying examination must be submitted to the office of Dean (Academic) **on or before 15th September 2018, otherwise admission will be cancelled.**

- xii. **Admission Written Test questions:** The qualifying written test marks is 40% of the full marks of the test for General and OBC candidate and 35% of the full marks of the test for SC/ST/PwD candidates. *Syllabus for written test will be Syllabus of GATE Exam of respective discipline.*
- xiii. **Interview:** Candidates selected in written test are shortlisted for the interview, and are required to appear at Interview. In Selection Interview, **his/ her depth of the knowledge in domain/Research subjects and aptitude for research** will be tested. Their original documents, academic records and credentials will be verified before the interview. If found not eligible for admission, he/she shall not be permitted to appear at the interview and his/her candidature shall stand cancelled. A candidate recommended for rejection by Interview Board is summarily rejected from admission in the program.
- xiv. **Merit list:** The merit list shall be prepared by the admission committee based on the Selection Interview Marks and availability of seat. Cut off marks for admission can not be less than 50% of full marks for Selection Interview. Selected candidates shall be notified on Institute website by the Academic Section.
- The selected candidates are required to report for admission on due date and time. No separate selection letter will be sent to any candidate.**
- xv. Extension of time for admission reporting shall not be allowed. If a candidate fails to report for admission by the due date, his/ her admission is cancelled.
- xvi. In case of sponsored candidate, an advance copy of the application may be sent by the candidate and NO OBJECTION CERTIFICATE must be submitted by the candidate at the time of test/interview for full tenure of Ph. D program (completion of Ph. D Program). Without NOC the candidature will not be considered.

Admission Test details and marks distribution for preparation of merit list

(a)	Screening Written Test:	Full Marks :100
(b)	Selection Interview (<i>To be conducted by the Department/ Centre</i>)	Full Marks: 100

Scholarship & Financial Assistance for Ph. D. Programme:

Institute Research Fellowship will be available to the eligible students as per MHRD, GOI norms. The period and amount of research fellowship shall be as per notification of the competent authority from time to time. *Selected candidate is required to execute an undertaking/agreement bond mentioning that they will refund the stipend/scholarship/assistantship received from the Institute in the case of leaving the programme without its completion, irrespective of the reasons at his/her end on the prescribed format.*

Note: The scholarships from any other agency/ organization are governed by rules and regulation of funding agency only, and students shall be governed by their rules only.

Documents required for verification during the interview and admission

- (i) The candidates are required to bring following documents at the time of interview:
- High School Certificate in original.
 - Mark sheets of qualifying examination in original.
 - Character Certificate issued by the Head of the Institution last attended/ from employer.
 - Certificate of sponsorship in the prescribed format (if applicable).
 - No. Objection certificate from parent employer (if applicable).
- (ii) The candidates are required to submit following self-verified documents at the time of interview:
- Downloaded Application form along with proof of on line payment
 - Photocopy of High School Certificate
 - Photocopies of all Mark sheets
 - Certificate of sponsorship in the prescribed format (if applicable).
 - A photocopy of GATE/NET or equivalent score card (if applicable)
 - A photocopy of the certificate of Caste (if applicable).
- (iii) The candidates are required to bring following documents at the time of admission:
- Passport size Photographs (4 Nos.).
 - Two set of Self attested copies of all the documents listed above.
 - Admission letter if any issued by the Institute/ verified document/ Admit Card used for Admission Test.

Note: The Institute reserves the right to refuse admission to any candidate without assigning any reason. All disputes are subject to Patna High Court only.

Fee Structure (Present)*:

Program	1 st Semester: During Admission	All intermediate Semester	Last Semester
Ph. D. Regular	27,850/-	Rs. 10,250/-	Rs. 8,650/-
Ph.D. (Part-Time)	26,250/-	Rs. 1,150/- (if course work completed) Rs. 8,650/- if course work continued	Rs. 1,150/-

* Fee is under revision. The difference amount, if any, has to be paid by the candidate as per notice which will be issued later.

Application Procedure

- All candidates are advised to apply only through online on NIT Patna website <http://www.nitp.ac.in> on or before 20th July 2018. Application fees need to be paid online through Institute website only.
- After submission of online application, applicant should download the printed application for future reference.
- Application fee is of Rs. 1500/- for General/ OBC/ Sponsored category and Rs. 750/- for SC/ ST/ PwD.

4. Applicants from SC/ ST/ PwD category must enclose Certificate issued by competent authority to claim relaxation in application Fee.

Admission Schedule for Ph. D Program –Even Semester (July-Dec 2018) during the session: 2018-19

S. No.	Admission Activities	Important dates	Days
1.	The date of advertisement	6 th July' 2018	Friday
2.	Last date of online application	20 th July' 2018 up to 11.59 PM	Friday
4.	Display of list of eligible candidates for Admission Test on institute' website	21 st July' 2018 at 5:00 PM	Saturday
5.	Admission Test	27 th July' 2018 at 11:00 AM	Friday
	Result of Written Admission Test	27 th July' 2018 at 7:00 PM	Friday
	Interview for eligible candidates	28 th July' 2018	Saturday
6.	Merit list of selected candidates	30 th July' 2018	Monday
7.	Admission and Registration in 1 st Semester	31 st July' 2018	Tuesday
8.	Commencement of Classes	2 nd August' 2018	Tuesday

NOTE: Institute reserves the right to vary the number of seats or cancel the admission process without assigning / informing any reason therefore.

Postal Address for applications submission:

Assistant Registrar (Academic)
National Institute of Technology Patna
Ashok Rajpath, PATNA – 800005 (India)
 Phone: Office: (0612) 237-1929, 237-0843, Ext. 247, 263, 108; Fax: (0612) 2670631
 Institute Web Site: www.nitp.ac.in Email ID: admission@nitp.ac.in

Dean (Academic)