



NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY
(An Institute of National Importance under MHRD, Govt. of India)
KARAIKAL-609 609

ADMISSION TO Ph.D. PROGRAMMES 2019-2020 (July Session)

National Institute of Technology Puducherry(NITPy) offers research programmes leading to the award of Ph.D. degree. The Ph.D. programme is broad based and involves course credits requirement and a research Thesis. The institute also encourages research in interdisciplinary areas through a system of joint supervision and provides excellent opportunities for such programs. The institute undertakes sponsored research and development projects from industries and other organizations of the public as well as private sectors. The degree of Doctor of Philosophy shall be abbreviated as Ph.D. The degree of Ph.D. is granted for research work in the areas recognized by the academic departments of the institute subject to satisfying the conditions given in this regulations.

The research work shall be an original work characterized either by the discovery of facts, or by a fresh approach towards the interpretation and application of facts, or development of equipment making a distinct advancement in science & technology. It shall evince the scholar's capacity for critical examination and sound judgment and shall represent original contribution to the existing knowledge.

The degree of Ph.D. of the National Institute of Technology Puducherry shall be conferred on a scholar who fulfills all the requirements specified in the regulations. The degree of Ph.D. will be awarded in the topic of his/her work.

Ph.D. degree programme is offered in various academic centers as follows:

- i) Civil Engineering
- ii) Computer Science Engineering
- iii) Electrical and Electronics Engineering
- iv) Electronics and Communication Engineering
- v) Mechanical Engineering
- vi) Chemistry
- vii) Physics

- viii) Mathematics
- ix) English
- x) Physical Education

1. ADMISSION CATEGORIES

1.1 Full time

- i) Regular full time scholars with institute fellowship/JRF. The institute fellowship will be limited and shall be available on merit.
- ii) Sponsored candidates being employee of a public sector undertaking, government department, Defense organization, Research and development organization, a private industry/institution (or) educational institutions.
- iii) Sponsored from industries under bilateral agreement with the institute.
- iv) Self-financed (Indian / Foreign)
 - **Indian:** This category refers to the persons with experience and good academic record to join the doctoral program in their personal capacity.
 - **Foreign:** These students are admitted through embassy of the foreign government after the approval from the ministry of external affairs and No Objection Certificate (NOC) from the Ministry of Human Resource Development (or) Department of Education, Government of India (or) admitted under MoU with NIT Puducherry.
- v) Institute Project Staff (Internal): Working on sponsored projects undertaken by the institute can be admitted to Ph.D. programme of NIT Puducherry through institute Ph.D., advertisement.

Note:

- i. The number of institute fellowships will be limited and shall be available on merit.
- ii. In case of full-time sponsored category, the candidate should be sponsored by their parent institution/organization with salary and allowances and are relieved for a period of not less than three years for pursuing Ph.D. Programme.
- iii. In case the sponsorship is withdrawn, the candidate can continue his Ph.D. program provided he/she has passed the qualifying examination. Under self financed category, he/she may apply for the fellowship from other funding agency.

1.2 Part Time(On Campus)

- a) Regular / Full-time teachers / employees working in Govt. / Govt. aided / Private Engineering / Technology colleges or Science and Arts Colleges / Universities /

Industry / Public sector organization are considered under this category. At the time of application, the candidate must submit a 'No Objection Certificate' from the Parent College / Organization to relieve him / her to complete his / her course-work requirement. The candidate should have at least two years of experience in a regular / permanent position at the organization at the time of application. The college / organization must have at least 5 years of its existence for patronizing candidates to part-time Ph.D. program. This category is limited to the institutions which are within the radius of 300 km from NIT Puducherry.

- b) Regular employee of National Institute of Technology Puducherry may apply through proper channel.

1.3 Part Time (External)

- a) Candidates working in reputed industry / organization having R & D facilities, Govt. R&D Departments / National Research Laboratories / Units of Government / Quasi Government / Public sector / Organization having MoU with NIT Puducherry are considered under this category. The candidates must be officially sponsored by their employing organization. A candidate working in an establishment which is equipped with the necessary research and library facilities shall be considered for admission under this category.
- b) A candidate applying for admission to the external registration programme must provide detailed information about the research facilities available to him / her for carrying out research. He/She should also provide the bio-data of the prospective guide (External guide) or Research Coordinator who would supervise/ co-ordinate the candidate's work at his/her organization. Internal guide is allotted from the institute. The candidate should be relieved to undergo course-work mandated for the programme.

2. ELIGIBILITY

2.1 Ph.D. in Engineering

- (i) Candidates with Master's degree in Engineering/Technology or a Master's degree by Research (M.S. By Research) in Engineering/Technology disciplines with a minimum of 60% aggregate marks (or) CGPA of 6.5/10 in UG or PG for admission under OC/OBC category and 55% aggregate marks or equivalent CGPA of 6.0 for SC/ST candidates. (OR)

(ii) Candidates with Bachelor's degree in Engineering/Technology from CFTI with valid GATE Score with a minimum of 90% aggregate marks (or) CGPA of 9.5/10 in UG for admission under OC/OBC category and 85% aggregate marks or equivalent CGPA of 9.0 for SC/ST candidates.

2.2 Ph.D. degree in Mathematics/Physics/Chemistry/English/Physical Education

Candidates having Masters degree with First class in Bachelor's or Master's degree in Mathematics/Physics/Chemistry/ English/Physical Education in the relevant discipline with minimum 60% aggregate marks (CGPA 6.5/10) in UG or in PG for OC/OBC category and 55% aggregate marks or equivalent CGPA of 6.0 for SC/ST candidates. A valid UGC/CSIR/NET/GATE score is mandatory for Institute fellowship.

Note:

Final year PG students are eligible to apply provided that they should be able to submit the PG provisional degree certificate and the consolidated statement of grades at the time of admission.

Research areas of all the departments are shown in Table I.

TABLE I. RESEARCH AREAS

S.No.	Department	Research Areas
1	Civil Engineering	Structural Engineering
2	Computer Science and Engineering	Artificial Intelligence, Information Security, Computer Vision, Medical imaging, Software, Data Analytics and Machine Learning, Networks and Security.
3	Electrical and Electronics Engineering	Control and Instrumentation System, Power system, Power electronics, High Voltage Engineering, Electrical Drives and Control
4	Electronics and Communication Engineering	Climate related studies and signal processing, Microwave engineering, Wireless networks & 5G Wireless communications, Machine learning and pattern recognition, VLSI signal processing and Wireless communication
5	Mechanical Engineering	Design /Thermal / Manufacturing / Industrial Engineering / Energy
6	Mathematics	Fuzzy optimization, Operations Research, Numerical Heat and Mass transfer, Mathematical theory of control.
7	Chemistry	Nanomaterials

S.No.	Department	Research Areas
8	Physics	Materials Science for energy storage, condensed matter Physics
9	English	English Language Teaching and Literary Studies
10	Physical Education	Physiology of exercise, Health and fitness, Yoga

3. SELECTION PROCEDURE

The shortlisted candidates will be screened by written test and interview by the Departmental Selection Committee. The list of candidates recommended by the Departmental Selection Committee is sent to the Director for approval.

4. ADMISSION PROCEDURE

Selected candidates as approved by the Director will be offered to enroll to the Ph.D. programme by remitting the prescribed fees. The candidate should also remit fees every semester as prescribed by the institute failing which registration will be cancelled.

5. PAYMENT OF FEES

A) One Time Fees at the time of Admission

Admission	:	Rs.	200.00
Grade Card	:	Rs.	150.00
Medical Examination	:	Rs.	100.00
Alumni Life Membership	:	Rs.	500.00
Institute Deposit (Refundable)	:	Rs.	3,000.00
Library Deposit (Refundable)	:	Rs.	500.00

Total	:	Rs.	4,450.00

*Seminar/Thesis submission fee extra

B) Semester Fees

Tuition	:	Rs.	7,500.00
Computer	:	Rs.	1,000.00
Internet	:	Rs.	300.00
Library	:	Rs.	1,000.00
Registration and Enrollment	:	Rs.	200.00
Association and Cultural	:	Rs.	1,000.00
Student Aid fee	:	Rs.	200.00
Sports Centre	:	Rs.	500.00
Medical and Insurance	:	Rs.	200.00

Total	:	Rs.	11,900.00

C) Hostel Fees

i) Establishment	:	Rs. 4,000.00
ii) Rent	:	Rs. 6,000.00
iii) Mess	:	Rs. 14,000.00
iv) One Time Caution Deposit (Refundable)	:	Rs. 4,000.00

Total	:	Rs. 28,000.00

6. FINANCIAL ASSISTANCE

Limited number of research fellowships is available to full time research scholars who are not receiving any financial support/scholarship from State/Central Governments (or) other agencies. They are required to assist the Department in the academic work for at least 8 hours per week as per guidelines issued by the Ministry of Human Resources and Development, Govt. of India, in addition to satisfying other conditions for the award of the fellowship. The present fellowship emoluments are as follows:

Department / Discipline	Stipend
Ph.D. in Engineering	Rs.31,000/-
Ph.D. in Sciences/Humanities	Rs.31,000/-

However, those who are awarded UGC/CSIR/NBHM/NET/JEST may utilize the Doctoral Fellowships once admitted to the Ph.D. programme.

Reservation Chart for Regular full time scholars with institute fellowship:

Department	Category				
	GEN	OBC	SC	ST	PWD
Civil Engineering	01	-	-	01	-
Computer Science and Engineering	02	01	-	01	-
Electrical and Electronics Engineering	01	01	-	-	01
Electronics and Communication Engineering	02	-	01	-	-
Mechanical Engineering	01	01	01	-	-
Chemistry	01	-	-	-	-
Physics	01	-	-	-	-

7. HOW TO APPLY?

Steps to apply online

1. Pay the application fee through SBI Collect.

Note: Candidates applying for more than one department should submit separate application form for each department. However, a single registration fee is sufficient.

2. Fill the online application form very carefully from the given link and submit it. Application number will be displayed and also sent to the email id.
3. Download the submitted application form (PDF) from the link given using the application number.
4. Print this downloaded application form (PDF) and sign the declaration.
5. Enclose the application fee paid receipt.
6. Paste a recent passport size photograph and self-attest.
7. Enclose necessary attachments
8. Send the application form and enclosures by post.

Candidates applying for Ph.D. programme can apply through the online application available at www.nitpy.ac.in. A non-refundable application fee of Rs. 1000/- (Rs.500/- for SC/ST/PH) has to be paid through SBI Collect, which is to be mentioned in the online application form. The filled up online application form along with self-attested photocopies of marksheets, degree certificates, community certificates, and the necessary enclosures should reach **‘The Associate Dean (Academic), National Institute of Technology Puducherry, Thiruvettakudy, Karaikal –609 609’** on or before **26-06-2019**.

10. Important Dates:

Last date for submission of online application form	Last date to send the application form and docs by post	Publication of Shortlisted candidates (Institute Website)	Written test and Interview
20/06/2019	26/06/2019	28/06/2019	06th July 2019 (Reporting time at 8.30 am.)

For further queries, contact:

Associate Dean(Academic),
National Institute of Technology, Puducherry,
Thiruvettakudy, Karaikal – 609 609
Ph: 04368-265235 (215)

LAST DATE FOR SUBMITTING THE ONLINE APPLICATION IS 20-06-2019

No Objection & Sponsorship Certificate from the Organization

(To be submitted in the Official Letter Head by the Ph.D. Part time – External candidates)

The applicant working as
..... in since
..... is herewith recommended and forwarded for admission under External
registration Scheme of the National Institute of Technology Puducherry for part time Ph.D.
Programme in the Department of

Certified that:

1. The applicant will be deputed/given leave for duration of his/her residence period at NIT Puducherry.
2. Till the completion of his/her research programme, the applicant will adhere to the NIT Puducherry Ph.D. rules and regulations.
3. No part of the work carried out in fulfillment of the Research programme will be utilized commercially or for applying for a Patent without the approval of National Institute of Technology Puducherry.

Date:

Signature of the Sponsoring Authority

Name and Designation

Seal of the organization/ Institution

Postal address of the Organization/ Institution:

No Objection & Sponsorship Certificate from the Organization

(To be submitted in the Official Letter Head by the Ph.D. Part time – On-campus Candidates)

The applicant working as
..... in since
..... is herewith recommended and forwarded for admission under External registration Scheme of the National Institute of Technology Puducherry for part time Ph.D. Programme in the Department of

Certified that:

1. This organization has adequate facilities for carrying out the research indicated by the applicant and if he/she is selected, these will be made available to him/her during regular working hours till the completion of the programme.
2. The applicant will be deputed/given leave for duration of his/her residence period at NIT Puducherry.
3. Facilities will be made available to the Supervisor (External Guide) to supervise the work of the applicant and to attend the meetings at NIT Puducherry, when necessary.
4. Till the completion of his/her research programme, the applicant will not ordinarily be transferred to another unit or place which may impede his/her work under the scheme. If such a transfer is necessary, NIT Puducherry will be informed within a month of such transfer.
5. Till the completion of his/her research programme, the applicant will adhere to the NIT Puducherry Ph.D. rules and regulations.
6. No part of the work carried out in fulfillment of the Research programme will be utilized commercially or for applying for a Patent without the approval of National Institute of Technology Puducherry.

Date:

Signature of the Sponsoring Authority

Name and Designation

Seal of the organization/ Institution

Postal address of the Organization/ Institution:

Certificate of External guide/ Research coordinator

(To be submitted by the Ph.D. Part Time - External Registration Candidates)

This is to state that in the event of Mr./Ms. of this organization being selected for part time Ph.D. programme in the Department of under the External Registration Scheme of NIT Puducherry, I agree to be his/her External Guide/Research coordinator and shall extend all possible guidance and following facilities to enable him/her to carry out his/her research programme towards the submission of thesis.

Particulars of Prospective External Guide / Research Coordinator:

(1) Name of proposed External Guide/Research coordinator (In Block letters):

(2) Designation of External Guide/Research coordinator:

(3) Academic qualifications of External Guide/Research coordinator:

(4) Membership of Professional Societies of External Guide/Research coordinator:

Research Facilities Available: (To be filled here)

Date:

**Signature of the External Guide/Research Coordinator
Name and Designation**

Seal of the organization