



राष्ट्रीय प्रौद्योगिकी संस्थान पुदुचेरी
NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY
(An Institution of National Importance under MoE, Govt. of India)
KARAIKAL-609 609

Dated: 09.05.2023

ADMISSION TO Ph.D. PROGRAMMES 2023-2024 (July Session)

National Institute of Technology Puducherry (NITPY) offers research programme leading to the award of Doctor of Philosophy (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 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 the 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 on the topic of his/her work.

1. ADMISSION CATEGORIES (July 2023-24 session)

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. Reservations shall be implemented as per the Govt. of India norms (as applicable for NITs).
- ii) Sponsored candidates being employee of a public sector undertaking, Government department, Defense organization, Research and development organization, private industry/institution (or) educational institutions. Sponsored from industries under bilateral agreement with the institute (**It is mandatory to submit the Form 3 for sponsorship along with the application form**).
- iii) Self-financed 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 Education (or) Department of Education, Government of India (or) admitted under MoU with NIT Puducherry.

- iv) Institute Project Staff (Internal): Working on sponsored projects undertaken by the institute can be admitted to Ph.D. programme of NIT Puducherry through the institute's advertisement for PhD admission.

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/her Ph.D. self-financed category program provided the candidate has passed the qualifying examination. However, the candidate may apply for the fellowship from other funding agencies.

1.2 Part Time (On Campus)

- a) Regular / Full-time teachers working in Govt. / Govt. aided / Private Engineering / Technology colleges or Science and Arts Colleges / Universities are considered under this category. At the time of application, the candidate must submit a 'No Objection Certificate' (Refer Form 2) 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 in 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.**

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 **(It is mandatory to submit the Form 1 A and Form 1B along with the application form).**
- 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.

- c) Candidates with Bachelor's degree in Engineering / Technology from industries with a minimum of 5 years of experience and CGPA of 7.5/10 in UG are also eligible under this category in addition to the criteria mentioned in sections 2.1 & 2.2.

1.4 Part Time (Internal)

Regular employee of National Institute of Technology Puducherry is considered as Part-Time (Internal) and may apply through proper channel.

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 in the respective 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. in Mathematics/Physics/Chemistry/Economics

Candidates having Master's degree with First class in Bachelor's or Master's degree in Mathematics/Physics/Chemistry/Economics in the relevant discipline with a minimum of 60% aggregate marks (CGPA 6.5/10) in UG or 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.**

3. RESEARCH AREAS

3.1 The applications are invited only for the Research areas of different departments under **FULL-TIME INSTITUTE FELLOWSHIP** as shown in Table 1

TABLE 1. RESEARCH AREAS

S. No.	Departments	Research Area
1.	Chemistry	Nanotechnology, Polymers, Electrochemistry, Materials for Energy Applications, Synthetic Organic Chemistry, Medicinal Chemistry, Green Chemistry, Organometallics.
2.	Civil Engineering	Structural Concrete Engineering, Hydraulic and Water Resources Engineering, Environmental Engineering, Geotechnical Engineering, Reinforced and Prestressed Concrete Structures, Structural Engineering and Structural Dynamics, Traffic Engineering, Transportation Planning and Pavement Engineering
3.	Computer Science and Engineering	Artificial Intelligence, Machine Learning, Deep Learning, Bio & Health Informatics, Image Processing, Computer Vision, Internet of Things (IOT), Security, Semantic Web, Cloud Computing
4.	Electrical and Electronics Engineering	Control system, smart grid technologies, Power Systems, Renewable energy systems, Power electronics converter systems for electrical vehicle applications Battery management systems, Power electronics and drives, High Voltage Engineering
5.	Electronics and Communication Engineering	5G and beyond wireless communication systems, wireless networks & IoT, microwave filters, Metasurfaces, frequency selective surfaces, biomedical signal processing, VLSI signal processing, pattern recognition, speech processing, analog and mixed-signal design, radiation-hardened circuit design, neuromorphic computing, semiconductor device modeling, analog IC design.
6.	Humanities and Social Sciences	Energy Economics, Financial Economics, International Trade, Macroeconomics
7.	Mathematics	Fluid dynamics, Heat and Mass Transfer, Numerical Analysis, Integral Equations, Fractional Differential Equations, Operations Research, Bio-mathematics, Fuzzy Set Theory, Mathematical Theory of Control.
8.	Mechanical Engineering	Thermal Engineering, Solar Energy, Sustainable Machining, Industrial Ergonomics, Fluid Dynamics / Sports Dynamics, Vibration
9.	Physics	Experimental Condensed Matter Physics and Materials Science.

3.2 NIT Puducherry also invites the application for **PART-TIME category in all the relevant research areas in following departments:**

1. Department of Chemistry
2. Department of Computer Science and Engineering
3. Department of Civil Engineering
4. Department of Electronics and Communication Engineering
5. Department of Electrical and Electronics Engineering
6. Department of Humanities and Social Sciences
7. Department of Mathematics
8. Department of Mechanical Engineering
9. Department of Physics
10. Department of Physical Education

4. SELECTION PROCEDURE

Candidates are required **to submit their research proposal along with the application.**

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.

5. ADMISSION PROCEDURE

Selected candidates 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 canceled.

6. FEES

Institute Fee structure for Ph.D. Students to be admitted in the July Session of the Academic Year 2023-24 and belonging to GEN/OBC/EWS category-Full Time/Part Time

1st Semester (Semester Fee)			2nd to Last Semester (Semester Fee)		
Sl. No.	Details of Fees	Amount (Rs.)	Sl. No.	Details of Fees	Amount (Rs.)
1	Computer Fee	1000	1	Computer Fee	1000
2	Internet Fee	500	2	Internet Fee	500
3	Library Fee	3000	3	Library Fee	3000
4	Registration – Enrollment Fee	200	4	Registration – Enrollment Fee	200
5	Association and Cultural Fee	1000	5	Association and Cultural Fee	1000
6	Students Aid Fee	200	6	Students Aid Fee	200
7	Sports Centre	500	7	Sports Centre	500
8	Group Insurance Fee	250	8	Group Insurance Fee	250
9	Wellness Fee	775	9	Wellness Fee	775
10	Tuition Fee	7500	10	Tuition Fee	7500
11	One Time Payment*	4450			
Total		19375	Total		14925

Institute Fee structure for Ph.D. Students to be admitted in the July Session of the Academic Year 2023-24 and belonging to SC/ST/PWD category-Full Time/Part Time

1 st Semester (Semester Fee)			2 nd to Last Semester (Semester Fee)		
Sl. No.	Details of Fees	Amount (Rs.)	Sl. No.	Details of Fees	Amount (Rs.)
1	Computer Fee	1000	1	Computer Fee	1000
2	Internet Fee	500	2	Internet Fee	500
3	Library Fee	3000	3	Library Fee	3000
4	Registration – Enrollment Fee	200	4	Registration – Enrollment Fee	200
5	Association and Cultural Fee	1000	5	Association and Cultural Fee	1000
6	Students Aid Fee	200	6	Students Aid Fee	200
7	Sports Centre	500	7	Sports Centre	500
8	Group Insurance Fee	250	8	Group Insurance Fee	250
9	Wellness Fee	775	9	Wellness Fee	775
10	Tuition Fee	0	10	Tuition Fee	0
11	One Time Payment*	4450			
Total		11875	Total		7425

* Details of One Time Payment

Details of fees	Amount (Rs.)
a) Admission fee	200
b) Identity card	150
c) Medical Exam fee	100
d) Alumni Life Membership fee	500
e) Institute Deposit (Refundable)	3000
f) Library Deposit (Refundable)	500
Total	4450

Note: Thesis submission fee of Rs.10,000.00 has to be paid during the submission of synopsis for the students admitted in the Academic Year 2023-24.

7. FINANCIAL ASSISTANCE

Limited number of research fellowships is available to full time research scholars admitted under Institute Fellowship scheme, 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 Education, Govt. of India, in addition to satisfying other conditions for the award of the fellowship. The present fellowship emoluments/HTTRA for candidates admitted under

Full time Institute fellowship category is Rs.31,000/- per month. 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:

Category						Total
OPEN	OBC	SC	ST	EWS	OPEN -PwD	
15	9	4	2	3	1	34

8. HOW TO APPLY?

Candidates applying for Ph.D. programme can apply only through the online application portal <https://nitpyadm.samarth.edu.in/> A **non-refundable** application fee of **Rs. 1000/- (Rs.500/- for SC/ST/PWD)** has to be paid through the application portal. The last date of online application is **31-May-2023. PLEASE DO NOT SEND THE HARD COPY.**

SEPARATE APPLICATION FORM IS REQUIRED TO BE SUBMITTED FOR EACH CATEGORY WITH RELEVANT APPLICATION FEE.

Steps to apply

1. Create Login id using <https://nitpyadm.samarth.edu.in/> by entering a valid email-id and mobile number.
2. Enter the login credentials and complete the personal profile.
3. After completing the personal profile, apply for the intended program and make the payment through the portal.

The nomenclature for application category selection is as follows:

Short Code	Detail
PHD_CHEM_FullTime	PhD in Chemistry under Full Time
PHD_CHEM_PartTime	PhD in Chemistry under Part Time
PHD_CIVIL_FullTime	PhD in Civil Engg. Under Full Time
PHD_CIVIL_PartTime	PhD in Civil Engg. Under Part Time
PHD_CSE_FullTime	PhD in Computer Science and Engg. Under Full Time
PHD_CSE_PartTime	PhD in Computer Science and Engg. Under Part Time
PHD_ECE_FullTime	PhD in Electronics and Comm. Engg. Under Full Time
PHD_ECE_PartTime	PhD in Electronics and Comm. Engg. Under Part Time

PHD_EEE_FullTime	PhD in Electrical and Electronics Engg. Under Full Time
PHD_EEE_PartTime	PhD in Electrical and Electronics Engg. Under Part Time
PHD_MATHS_FullTime	PhD in Mathematics under Full Time
PHD_MATHS_PartTime	PhD in Mathematics under Part Time
PHD_MECH_FullTime	PhD in Mechanical Engineering under Full Time
PHD_MECH_PartTime	PhD in Mechanical Engineering under Part Time
PHD_PHYSICS_FullTime	PhD in Physics under Full Time
PHD_PHYSICS_PartTime	PhD in Physics under Part Time
PHD_HSS_FullTime	PhD in Humanities and Social Sciences Under Full Time
PHD_HSS_PartTime	PhD in Humanities and Social Sciences Under Part Time
PHD_PED_PartTime	Doctor of Philosophy (Education) (Physical Education)

Instructions: In case of the candidate is applying for Part-Time External, Part Time On-campus or Full Time sponsored admission category, the candidate must upload the relevant Form1A, Form1B, Form2, Form3 and NOC along with experience certificate in the relevant upload option.

9. IMPORTANT DATES:

Last date to upload the application form	Publication of Shortlisted candidates (Institute Website)	Written test and Interview
31-May-2023	Will be notified in the Institute website	

For further queries, contact:

Dean (Academic),
National Institute of Technology Puducherry,
Thiruvettakudy, Karaikal – 609 609
Email: dean.acad@nitpy.ac.in
Email: ad-pgacad@nitpy.ac.in (For form submission related queries)

LAST DATE FOR SUBMITTING THE ONLINE APPLICATION FORM IS

31-May-2023

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.
4. The applicant will not claim any financial assistance from the Institute, fee waiver and on-campus placement.

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 with complete postal address, mobile number and email ID (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:
- (5) Industrial/Research Experience
- (6) Research Publications of External Guide/ Research coordinator

Research Facilities Available: (To be filled here)

Date:

Signature of the External Guide/Research Coordinator
Name and Designation:
Mobile Number:
Email ID:

Seal of the organization

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 Part Time On-campus registration Scheme of the National Institute of Technology Puducherry for parttime 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:

No Objection & Sponsorship Certificate from the Organization

(To be submitted in the Official Letter Head by the Ph.D. Full Time – Sponsored candidates)

The applicant working as
..... in since
..... is herewith recommended and forwarded for admission under Full Time –
Sponsored Scheme of the National Institute of Technology Puducherry for Ph.D. Programme
in the Department of

Certified that:

1. The applicant will be deputed and given paid leave for duration of his/her research 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.
4. The applicant will not claim any financial assistance from the Institute, fee waiver and on-campus placement.

Date:

Signature of the Sponsoring Authority

Name and Designation

Seal of the organization/ Institution

Postal address of the Organization/ Institution: