



राष्ट्रीय प्रौद्योगिकी संस्थान पुडुचेरी  
NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY  
(An Institute of National Importance under MoE, Govt. of India)  
ARAIKAL-609 609

NITPY/ACAD/2024/

Dated-31-05-2024

**ADMISSION TO Ph.D. PROGRAMMES 2024-2025 (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 2024-25 session)

1. Full Time Category

- a. Institute Fellowship (including Direct Ph.D. category) or other Fellowships (CSIR - UGCJRF/NET/QIP etc) or sponsored (from industries/organization under bilateral agreement with NIT Puducherry).
- b. Project Staff: Research staff of sponsored research projects of National Institute of Technology Puducherry are eligible to apply through proper channel.
- c. Self-supported (Indian / Foreign)
  - Indian: This category refers to the persons with exceptionally good academic record to join the doctoral programme in their personal capacity. Limited

number (decided from time to time) of candidates can be admitted under this category.

- Foreign: These candidates 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) Study in India (SII) (or) admitted under MoU with NIT Puducherry

NOTE:

- a. The number of institute fellowships will be limited and shall be available on merit and following reservation norms.*
- b. The full-time scholars are the registrants who work on full-time basis at the Institute for their research work.*
- c. In case of full-time sponsored category, the scholar should be sponsored with salary and allowances and are relieved for a period of not less than two years from their parent organisation for pursuing Ph.D. Programme.*
- d. In case the sponsorship is withdrawn, the scholar can continue his/her Ph.D. Programme in Self-support category. Under self-support category, he/she may apply for the fellowship from other funding agency.*

2. Part Time (Internal) Category

Regular employees of National Institute of Technology Puducherry are eligible to apply under this category through proper channel.

3. Part Time (External) Category

Regular / Full-time teachers/ faculties / 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. The candidates shall be officially permitted 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. The candidate should have at least two years of experience in a regular / permanent position at the organization at the time of application. The sponsoring organization / institute must have at least 5 years of its existence (at-least 1 year of existence for start-ups) for patronizing candidates to part-time Ph.D. programme. A candidate applying for admission to the part-time external registration programme shall provide detailed information about the research facilities available to him / her for carrying out research. The candidate should be allowed to undergo course-work mandated for the

programme. A no objection cum experience certificate issued by the competent authority of parent organization shall be attached with the application.

## 2. ELIGIBILITY

### (1) Ph.D. in Engineering

a) 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 CGPA of 6.0 for SC/ST/PwD candidates.

b) Direct Ph.D. admission category- Candidates with Bachelor's degree in Engineering/ Technology from CFTI / having valid GATE Score with a minimum of 80% aggregate marks or CGPA of 8.5/10 in UG for admission under OC/OBC category and 75% aggregate marks or CGPA of 8.0 for SC/ST/ PwD candidates.

### NOTE

For candidates applying under Part Time (External) category, if the candidate is having more than 20 years of relevant industrial experience and having only Bachelor's in Engineering/Technology with a minimum of 60% aggregate marks or CGPA of 6.5/10 for admission under OC/OBC category and 55% aggregate marks or CGPA of 6.0/10 for SC/ST/PwD, he/she is also eligible.

### (2) Ph.D. degree in Mathematics/Physics/Chemistry/English/Social Science

a) Candidates having Masters degree with First class in Bachelor's or Master's degree in Mathematics/Physics/Chemistry/English/Social Science 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 CGPA of 6.0 for SC/ST/PwD candidates. A valid CSIR-UGC NET including lectureship (Assistant Professorship)/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

S. No.	Departments	Research Area
1.	Chemistry	Green chemistry and organometallic chemistry

2.	Civil Engineering	Structural engineering, and Transportation Engineering Traffic Engineering and Road Safety, Transportation Planning and Pavement Engineering
3.	Computer Science and Engineering	Cyber Security, Network Security, Quality of Service in Wired or Wireless Networks, Internet of Things Security, Search Engine Optimization, Artificial General Intelligence Generative AI, Computer Vision, Deep Learning Applications, Software Reliability
4.	Electronics and Communication Engineering	AI based Wireless Communication Networks, 6G Communications, High Data Rate WLAN, Remote Sensing, Image Processing, Machine Learning and Deep Learning
5.	Electrical and Electronics Engineering	Power Electronics and High Voltage Engineering, Control systems
6.	Mathematics	Bio-Mathematics, Differential Equations, Mathematical Theory of Control, Operations Research
7.	Mechanical Engineering	Thermal Engineering, Energy Engineering. Polymer - Polymer Composites, Gears, Manufacturing Engineering, Composite Materials, Digital Twin for Industrial Robotics; Augmented/Virtual Reality for manufacturing systems; AI based Metamaterials design
8.	Physics	Material Science, Solid State physics, Nanoscience and Nanotechnology, Condensed Matter Physics

3.2 NIT Puducherry also invites the application for Full-Time (Self Sponsored and UGC-NET fellowship) category in the following research area in following department:

S. No.	Department	Research Area
1.	Mathematics (Self Sponsored)	Differential Equations, Mathematical Theory of Control

S. No.	Department	Research Area
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1.	Mathematics (UGC-NET FELLOWSHIP)	Bio-Mathematics, Differential Equations, Hydrodynamic Stability, Mathematical Theory of Control, Operations Research, Numerical Analysis
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3.3 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

#### 4. SELECTION PROCEDURE

Eligible candidates recommended by the Departmental Selection Committee from the received applications will be screened through a written test and interview by the Departmental Selection Committee with the Dean (Academic) or Dean (Academic) nominee as observer. Both Full Time and Part Time candidates will have a common written test. The merit list of the candidates after written test and interview will be submitted to the Chairperson Senate through Dean (Academic) by the Departmental Selection Committee for the 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 2024-25 and belonging to GEN/OBC/EWS category-Full Time/Part Time**

1 <sup>st</sup> Semester (Semester Fee)			2 <sup>nd</sup> 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			
<b>Total</b>		<b>19375</b>	<b>Total</b>		<b>14925</b>

**Institute Fee structure for Ph.D. Students to be admitted in the July Session of the Academic Year 2024-25 and belonging to SC/ST/PWD category-Full Time/Part Time**

<b>1<sup>st</sup> Semester (Semester Fee)</b>			<b>2<sup>nd</sup> to Last Semester (Semester Fee)</b>		
<b>Sl. No.</b>	<b>Details of Fees</b>	<b>Amount (Rs.)</b>	<b>Sl. No.</b>	<b>Details of Fees</b>	<b>Amount (Rs.)</b>
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			
<b>Total</b>		<b>11875</b>	<b>Total</b>		<b>7425</b>

\* Details of One Time Payment

<b>Details of fees</b>	<b>Amount (Rs.)</b>
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
<b>Total</b>	<b>4450</b>

**Note:** Thesis submission fee of Rs.10,000.00 has to be paid during the submission of synopsis.

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.37,000/- 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	PwD	
9	4	2	1	1	1	18

**8. HOW TO APPLY?**

Candidates applying for Ph.D. programme can apply only through the online application portal <https://nitpyadm.samarth.edu.in/july24/>. 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 **21-JUNE-2024, 05:00PM. 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/july24/> 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:**

S.No.	Short Code	Detail
1.	PHD_CHEM_FullTime	<b>PhD in Chemistry under Full Time</b>
2.	PHD_CHEM_PartTime	<b>PhD in Chemistry under Part Time</b>
3.	PHD_CIVIL_FullTime	<b>PhD in Civil Engg. Under Full Time</b>

4.	PHD_CIVIL_PartTime	<b>PhD in Civil Engg. Under Part Time</b>
5.	PHD_CSE_FullTime	<b>PhD in Computer Science and Engg. Under Full Time</b>
6.	PHD_CSE_PartTime	<b>PhD in Computer Science and Engg. Under Part Time</b>
7.	PHD_ECE_FullTime	<b>PhD in Electronics and Comm. Engg. Under Full Time</b>
8.	PHD_ECE_PartTime	<b>PhD in Electronics and Comm. Engg. Under Part Time</b>
9.	PHD_EEE_FullTime	<b>PhD in Electrical and Electronics Engg. Under Full Time</b>
10.	PHD_EEE_PartTime	<b>PhD in Electrical and Electronics Engg. Under Part Time</b>
11.	PHD_MATHS_FullTime	<b>PhD in Mathematics under Full Time</b>
12.	PHD_MATHS_PartTime	<b>PhD in Mathematics under Part Time</b>
13.	PHD_MECH_FullTime	<b>PhD in Mechanical Engineering under Full Time</b>
14.	PHD_MECH_PartTime	<b>PhD in Mechanical Engineering under Part Time</b>
15.	PHD_PHYSICS_FullTime	<b>PhD in Physics under Full Time</b>
16.	PHD_PHYSICS_PartTime	<b>PhD in Physics under Part Time</b>
17.	PHD_HSS_PartTime	<b>PhD in HSS under Part Time</b>

**Instructions: In case of the candidate is applying for Part-Time External, Full Time sponsored admission category, the candidate must upload the relevant Form1, and Form2 (NOC along with experience certificate as a single file in experience certificate upload option).**

#### **1. IMPORTANT DATES:**

Last date to submit the online the application form	Publication of Shortlisted candidates (Institute Website)	Written test and Interview
<b>21-JUNE-2024, 05:00PM</b>	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](mailto:ad-pgacad@nitpy.ac.in) (For form submission related queries)

**LAST DATE FOR SUBMITTING THE ONLINE APPLICATION FORM IS**

**21-JUNE-2024, 05:00PM**



**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:**

**No Objection & Experience 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 Part Time

(External) 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. Till the completion of his/her research programme, the applicant will adhere to the NIT Puducherry Ph.D. rules and regulations.
4. 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.
5. The applicant will not claim any financial assistance from the Institute, fee waiver and on-campus placement
6. 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.

**Date:**

**Signature of the Sponsoring Authority  
Name and designation  
Seal of the organization/ Institution**

**Postal address of the Organization/ Institution:**