

Information Brochure

Admissions

To

The Ph.D. Programme under

Visvesvaraya Scheme

December 2024

Ref no: NITANP/SASS/ADM/2024/1816

Dated:06-11-2024



**NATIONAL INSTITUTE OF TECHNOLOGY
ANDHRA PRADESH**

1. ABOUT THE INSTITUTE

The National Institute of Technology Andhra Pradesh, Tadepalligudem, is an Institute of National Importance, established in the A.Y. 2015. It is a fully-funded Institute under the Ministry of Education, Government of India. Currently, the Institute offers B.Tech. programme in eight engineering branches, Bio- Technology, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electrical Engineering, Electronics & Communication Engineering, Mechanical Engineering, and Metallurgical & Materials Engineering. The Institute also offers Ph.D. (both under Full-time, Part-time, under Project modes) programme in the above-mentioned engineering branches, Sciences (Mathematics, Physics, Chemistry) and Humanities (English). The Institute is introducing interdisciplinary Ph.D. (Full-time) programme from the AY 2024-25.

2. VISVESVARAYA PHD SCHEME FOR ELECTRONICS AND IT

Digital India Corporation, MeitY (Ministry of Electronics and Information Technology), and Govt. of India has granted scholarships under the scheme titled “Visvesvaraya Ph.D. scheme for Electronics and IT: Phase-II”. This scheme is available for Ph.D. candidates in the research topics that come under the broad research categories of Electronics System Design and Manufacturing (ESDM) and Information Technology/ Information Technology Enabled Services (ITES).

Under this scheme presently admissions are open to Full-Time and Part-Time Ph.D. programs in the departments of Electronics and Communication Engineering, Computer Science and Engineering and Electrical Engineering. **There are 05 (five) Full-Time Ph.D. seats (including 02 seats for C2S Programme) and 02 (two) Part-Time Ph.D. seats under 'Visvesvaraya Ph.D. scheme for Electronics and IT: Phase II'** at National Institute of Technology Andhra Pradesh for academic year 2024-25.

Chips to Startup (C2S) Programme is the Ministry of Electronics & Information Technology (MeitY) initiative which aims to train 85,000 number of Specialized Manpower across India over a period of 5 years in the area of VLSI and Embedded System Design and leapfrog in ESDM space by way of inculcating the culture of System-on-Chip (SoC)/ System Level Design at Bachelors, Masters and Research level and act as a catalyst for growth of Start-ups involved in fabless design.

3. DEPARTMENT-WISE RESEARCH AREAS

DECE: VLSI, VLSI signal processing, Radar signal processing, NOMA, 5G/6G communications, UAVs for wireless communication, Signal processing for communication, Speech processing, Image Processing, Microwave filter, Antennas, Microwave Sensors, Microwave vacuum electron beam devices, Artificial Intelligence (AI) / Machine Learning (ML) in Electronics and Communication applications.

DCSE: Probabilistic Graphical Models, Representation Learning, Cloud Computing, Parallel, Approximation and Randomized Algorithms, Performance Modeling, NLP-Mixed Script, Explainability, Indic Languages, ML and DL-Vision, NLP and Video Analytics, Object detection, Image restoration, Image classification and clustering, Distributed Computing- Query optimization, Block Chains, Quantum Computing, Metric Learning, Reinforcement Learning.

DEE: Application of Power Electronics, Microgrids and Electric Vehicles, Power Converters for Electric Vehicles, Distribution System Modernization, Artificial Intelligence (AI)/ Machine Learning (ML) applications to Power Systems.

4. ELIGIBILITY CRITERIA

(a) Eligibility criteria for Ph.D. (Full-Time) programme:

Candidates applying for Ph.D. (Full-Time) programme should satisfy all the criteria listed below.

- Candidates with a Master's degree in Engineering/Technology/Science in the appropriate branch of study. Candidates belong to UR/EWS/OBC-NCL category must have secured 60% (or above) aggregate marks (CGPA of 6.5) either at UG or PG level examination. For SC/ST/PwD candidates, 55% aggregate (or above) marks or equivalent CGPA of 6.0 is essential either at UG or PG level.
- Candidates should have qualified GATE/NET in the relevant disciplines. However, GATE/NET qualification is not mandatory for the candidates with M.Tech. degree pursued from Centrally funded Institutions (CFI) with a minimum CGPA of 7.5. GATE/NET qualification is mandatory for the candidates with M.Sc. degree in relevant specialization seeking admission to the Ph.D. in engineering departments.

OR

- Candidates with Bachelor's in Engineering / Technology in the appropriate branch of study. Candidates belong to UR/EWS/OBC-NCL category must have secured 75% (or above) aggregate marks or equivalent CGPA of 8.0, and for the SC/ST/PwD candidates, 70% aggregate (or above) marks or equivalent CGPA of 7.5.
- Candidates should have qualified GATE/NET in the relevant disciplines. However, GATE/NET qualification is not mandatory for the candidates with B.Tech. degree pursued from Centrally funded Institutions (CFI) with a minimum CGPA of 7.5.

(b) Eligibility criteria for Ph.D. (Part-Time) programme:

Candidates applying for Ph.D. (Part-Time) programme should satisfy all the criteria listed below.

- Candidates should be working on a regular basis (or the position should be ratified by the university, if the position is not regular) in reputed research organizations/academic Institutions/Industries with a minimum experience of two years.
- Candidates with a Master's degree in Engineering/Technology or a Master's degree by Research in Engineering/Technology in appropriate branches.
- Candidates belong to UR/EWS/OBC-NCL category must have secured 60% (or above) aggregate marks (CGPA of 6.5) either at UG or PG level examination. For SC/ST/PwD candidates, 55% aggregate (or above) marks or equivalent CGPA of 6.0 is essential either at UG or PG level.

5. SELECTION PROCEDURE: Written Test and/or Interview

6. FEE STRUCTURE#:

Fee Particulars	Ph.D. (Full-Time)									
	I Year		II Year		III Year		IV Year		V Year	
	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem
Tuition Fee (All categories)	7500	7500	7500	7500	7500	7500	7500	7500	7500	7500
Other Fee	28600	2900	2900	2900	2900	2900	2900	2900	2900	2900
Total (Rs.)	36100	10400	10400	10400	10400	10400	10400	10400	10400	10400
Fee Particulars	Ph.D. (Part-Time)									
	I Year		II Year		III Year		IV Year		V Year	
	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem	Odd Sem	Even Sem
Tuition Fee (All Categories)	30000	30000	30000	30000	30000	30000	30000	30000	30000	30000
Other Fee	28600	2900	2900	2900	2900	2900	2900	2900	2900	2900
Total (Rs.)	58600	32900	32900	32900	32900	32900	32900	32900	32900	32900

The fee structure may change from time-to-time as per the institute's policy. Hostel fee structure is available on the Institute website.

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NIT Andhra Pradesh

GENERAL INSTRUCTIONS

- a. The candidates are required to fill and submit the application form through the link as mentioned below. <https://nitandhraadm.samarth.edu.in/>.
- b. The applicant should forward the soft copy of the application form, fee payment receipt and all the testimonials (merged into one file) through email to phdadmissions@nitandhra.ac.in, clearly mentioning course, branch and application number of the applicant in the subject of the email. The applicant should also keep the soft copy of the submitted application for future reference.
- c. The candidates must pay the required application fee of **Rs. 200/- (Rs. 100/- for SC/ST/PwD categories)** for each programme/department/school/discipline through the following payment procedure. Application fee once paid is non-refundable. After successful payment of the fees please save the receipt (pdf copy).
- d. A separate application form must be submitted for each programme/department/school/discipline.
- e. The last date for submitting the online applications is **20-11-2024 (05:00 PM)**.
- f. Candidates should check the website (www.nitandhra.ac.in) frequently for all future communications such as date of written test/interview, short-listed candidates etc. No separate communication will be sent in this regard.
- g. No TA/DA will be provided for attending written exam and/or interview for Ph.D. programmes.
- h. Candidates joining Ph.D. programme, must produce their original mark/ grade sheets, Transfer-cum-Migration certificate, NOC and all relevant certificates at the time of admission.
- i. The admission may be cancelled at any time if found the certificates are inappropriate.
- j. All the programmes are governed by the institute's rules and regulations prescribed from time-to-time.
- k. Latest guidelines issued by the Department of Higher Education, MoE, Govt of India, regarding the emoluments for the research personnel engaged in R&D programmes are available in Annexure-D.
- l. Reservation of seats: Reservations are applicable to SC/ST/OBC/Economically Weaker Section (EWS)/candidate with Physical Disability (PwD) as per the rules and regulation of the Govt. of India.
- m. The Institute reserves the right to modify/defer or cancel full/ part of the advertisement/ admission at any stage of processing without assigning any reason.

For any queries, the applicants can drop a mail to: phdadmissions@nitandhra.ac.in.

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