# NATIONAL INSTITUTE OF TECHNOLOGY ARUNACHAL PRADESH

(Established by: Ministry of Education, Govt. of India)

Jote, District - Papum Pare, Arunachal Pradesh – 791113

NIT/AP/Acad/Ph.D-01/2018-19/1606                                    Date: 12/11/2024

## Admission to Ph.D. Programme Jan-June 2025

Applications are invited for admission to Ph.D. Programme under Full-Time category for the following departments for session Jan-June 2025. The application form and details are downloadable from institute website www.nitap.ac.in.

### A. DEPARTMENTS AND QUALIFICATIONS.

| Sl. No | Department | Area of specialization (Indicative) | Essential Qualifications | Category |
|---|---|---|---|---|
| 1. | Basic and Applied Science (BAS) | Electronics devices, semiconductors, optoelectronics devices/ Solar cell, organic/inorganic chemistry, materials science, nano technology, bio science and bio technology, combinatorial key management, graph theory, sampling theory, fluid dynamics, string theory, theoretical condensed matter physics and fractional calculus, special function | M.Sc or equivalent degree in Mathematics (Pure/Applied) or Statistics/Chemistry/ Physics, /Material Science/Nano Science/Bio-Science. | Full-Time |
| 1. | Biotechnology (BT) | Molecular biology & drug target, agriculture waste management and biosensors, biomedical engineering, phytochemistry, drug development | M. Tech/ M.E in BT or equivalent Or B.Tech /BE/M.Sc in BT | Full-Time |
| 2. | Chemical Engineering (CHE) | Thin film instability and interfacial phenomena, computational fluid dynamics (CFD). | M.Tech / M.E in CHE / ME Or B.Tech /BE in CHE / ME or M.Sc in Mathematics | Full-Time |
| 3. | Civil Engineering (CE) | Structural engineering, Geotechnical engineering, Water resource engineering and Environmental engineering, Transportation Engineering | M.Tech / M.E in relevant areas Or B.Tech /BE in CE | Full-Time |
| 4. | Computer Science & Engineering (CSE) | Deep learning, Cryptography, Data mining, Machine learning, Natural language processing and networking, Image Processing, Quantum Computing, Computer Networking, AI, IoT, Cognitive Computing, Speech Processing, Database Systems, Data Warehouse, Data Mining | M.Tech / M.E in relevant areas Or B.Tech /BE in CSE/ IT/ Data Science, Artificial Engineering/ Machine Learning or MCA or M.Sc in CS/ Data Science/ Information Security/ Maths & Computing | Full-Time |
| 5. | Electronics & Communication Engineering (ECE) | Wireless communication, Speech processing, Natural Language Processing, Semiconductor device, Analog & Digital VLSI, System-on-chip, Low Power IC, Embedded system & Robotics, IoT System Design, Optical communication, Optical Computing, Plasmonics, and Microwave & Antenna | M.Tech / ME / MS in ECE/EE/EIE/CSE having specialization in relevant areas Or B.Tech /BE in ECE/EE/EIE/CSE or M.Sc in Electronics | Full-Time |
| 6. | Electrical Engineering (EE) | Antenna Microwave Theory, Power Electronics and Electric Drives, Renewable Energy Sources and Applications, Computational Intelligent Techniques with sub categories of machine learning, deep learning, evolutionary optimization and swarm intelligence based algorithms, Linear and Non-Linear System analysis and design, Power System Domain, Power Quality Issues of Renewable Energy, Micro-hydro Power Plants, Renewable Energy Integration, SEIG for rural areas. | M.Tech / M.E in EE, EEE & ECE having specialization in relevant areas Or B.Tech /BE in EE, ECE& EEE | Full-Time |
| 7. | Mechanical Engineering (ME) | Product Design, waste management, IC engine, Bio fuel, Robotics, Biological heat Transfer, heat transfer in micro channel, mechanical vibration, thermo-hydro dynamics, renewable | M.Tech/M.E/MS having specialization in relevant areas Or B.Tech /BE in ME | Full-Time |

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| | | energy, manufacturing, composite materials, tribology, fluid mechanics. | | |
| 8. | Management & Humanities (M&H) | Finance, Marketing, HRM, Organizational Behaviour and General Management, Linguistics, English, and Interdisciplinary Research. | MBA/ M.Tech/ M.Sc./ M.Com/ M.A in relevant areas | Full-Time |

## B. VARIOUS SCHEMES AND COMPULSORY CONDITION.

| S/N | Scheme | Mandatory condition |
|---|---|---|
| 1. | Full-Time | Fellowship will be given as per Government and Institute norms. |
| 2. | Part- Time | No fellowship from institute, the candidates should be working in government organisation, Educational Institutes, Public/Private sector and central government organisation. NOC should be submitted from controlling office/department. However, candidate can submit the advance copy of the application but the NOC has to be produced at the time of written test, if shortlisted. Candidates working at NIT Arunachal Pradesh as JRF can apply. However, candidate should have 1 (one) year work experience as JRF/R&D/industry/teaching with minimum of six month experience as a JRF under the project. NOC should be submitted though Dean (R&D). |

## C. ELIGIBILITY

### Minimum Educational Qualification for admission

**Engineering departments:**

First class with 60% aggregate or 6.5 CGPA at both UG and PG for GEN/ GEN-EWS/ OBC-NCL category and minimum 55% aggregate marks or 6.0 CGPA for candidates under SC/ ST/ PwD category.

Master's/ M.S. degree in Engineering/Technology in the appropriate branch of study.

**OR**

Bachelor's in Engineering/ Technology /M.Sc/MCA and at least CGPA of 8.0/10 or 75% of marks under GEN/GEN-EWS/OBC-NCL category and at least CGPA of 7.5/10 or 70% for candidates under SC/ST/PwD category. Final year students are also eligible to apply, provided at the time of admission he/she should produce final grade card failing which his/her admission will stand cancelled.

**Sciences/humanities/Management Departments:**

Master's Degree in an appropriate branch of Science/Humanities/Social Sciences/Management with a first class or minimum 60% marks (or CGPA of 6.5 on 10 point scale or equivalent) or equivalent at Master's level

Relaxation in minimum percentage / Equivalent grade point requirements will be as per the National Reservation Policy, Govt. of India. The preference shall be given to the valid UGC/CSIR/NET/GATE qualified candidates.

## D. FELLOWSHIP TO FULL-TIME CANDIDATES

Candidates are allowed to receive revised monthly fellowship as per Government and Institute norms subjected to availability of funds. Candidate has to take care institutional and departmental responsibilities under the purview of assistantship.

## E. SELECTION PROCEDURE

Selection will be done through written test and/or personal interview by respective departments.

Dean
शैक्षणिक/Academic
राष्ट्रीय प्रौद्योगिकी संस्थान/National Institute of Technology
अरुणाचल प्रदेश/Arunachal Pradesh, Jote-791113

## How to apply:

The application form can be downloaded from the institute website. Candidates are advised to visit the institute website for frequent updates. A candidates interested in applying in more than one department/Category shall be required to submit separate application forms along with appropriate fees and documents.

A non-refundable fee for Rs. 100/- (Rs 50/- for ST/SC/PwD candidates) is to be deposited to Canara bank account Name: "NIT,AP FEE ACCOUNT" Account number: 3435101005134, IFSC- CNRB0003435, MIRC – 791015002. And the deposited slip is to be attached with the application form.

The dully filled application form with documents are to be emailed to the respective HoD as given in page no. 3 with subject " **PhD admission in the department of XYZ)"** The candidates are required to produces original documents (for verification purpose) along with NOC to respective HoDs if selected.

### _Late receipt of application/mail shall not be entertained in any circumstances._

## Important dates:

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|---|---|
| Last date of submission of application form | 14th Dec 2024 till 5 pm |
| Publication of shortlisted applicant | 21st Dec 2024 |
| Date of written test followed by interview | 29th -30th Dec 2024 |
| Display or notification of result in website | 4th Jan 2025(tentative) |
| Date of admission | 9th -10th Jan 2025 |
| Commencement of class | As per academic calendar |

## Application check list:

The complete application should accompany by the following documents:
1. Self-attested copy of mark sheet/grade cared of X,XII and collage,
2. Self-attested copy of age proof certificate,
3. Self-attested copy of community certificate in case of ST/SC candidates from competent authority ( not below the rank of Tahsildar), if applicable,
4. Self-attested copy of **valid** community certificate in case of OBC candidates from competent authority ( not below the rank of Tahsildar) indicating the status regarding the creamy layer , if applicable,
5. Self-attested copy from competent authority for person with disability/ divyang (PwD).
6. Self-attested copy (Income & Asset Certificate) from competent authority for EWS category

Application without these required documents are liable to be rejected.

## Whom to contact:

In case of any quarries the candidate may contact the respective head of departments as per details given below:

| S/n | Name | Position | Contact details |
|---|---|---|---|
| 1. | Dr. Tushar Dhabal Das | HoD (BAS) | 9830956468, tushardhabald@gmail.com |
| 2. | Dr Kimjolly Lhouvum | HoD (BT) | 9402788406, kimjolly.lhouvum1@gmail.com |
| 3. | Dr. Mainak Mallick | HOD (CE) | 9485230516, nitapcehod@gmail.com |
| 4. | Dr Kartik Mondal | HOD (CHE) | 9485250803, kartick.mondal1982@gmail.com |
| 5. | Dr. Rajat Subhra Goswami | HOD (CSE) | 9436271052, nitapcsehod@gmail.com |
| 6. | Dr. Rajen Pudur | HoD (EE) | 9436634942, rajenpudur1977@gmail.com |
| 7. | Dr. Abir J Mondal | HOD (ECE) | 9436288558, abir_jm@hotmail.com |
| 8. | Dr. Manjula Das Ghatak | HOD (ME) | 6033936818, manjula.ghatak01@gmail.com |
| 9. | Professor.Mihir Kumar Shome | HOD (M&H) | 9911618801, hodmahnitap@gmail.com |
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(Dr. S.K. Chakraborty)
Dean, Academic