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/   Date: 04/12/2023

Admission to Ph.D. Programme January – June 2024

Applications are invited for admission to Ph.D. Programme under Full-Time/Part-Time category for the following departments for session January – June 2024. The application form and details are downloadable from institute website www.nitap.ac.in.

A. DEPARTMENTS AND QUALIFICATIONS.

Sl. No	Department	Broad 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 and Part-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 and Part-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 and Part-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 and Part-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 and Part-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 and Part-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 and Part-Time
7.	Mechanical Engineering (ME)	Product Design, waste management, IC engine, Bio fuel, Robotics, Biological heat Transfer, heat transfer in micro channel, mechanical	M.Tech/M.E/MS having specialization in relevant areas Or	Full-Time and Part-Time

		vibration, thermo-hydro dynamics, renewable energy, manufacturing, composite materials, tribology, fluid mechanics.	B.Tech /BE in ME	
8.	Management & Humanities (M&H)	Finance, marketing, HRM, Linguistic, organizational behaviour and general management, interdisciplinary research, Linguistics and English.	MBA/ M.Tech/ M.Sc./ M.Com/ MA in relevant areas	Full-Time and Part-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 of 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.

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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:

Last date of submission of application form	25th Dec' 2023 till 5PM
Publication of shortlisted applicant	31st Dec' 2023
Date of written test followed by interview	1st – 7th Jan' 2024
Display or notification of result in website	12th Jan' 2024
Date of admission	16th - 17th January 2024
Commencement of class	19th Jan' 2024 (tentative)

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. Utpal Kumar Saha	HoD (BAS)	9436271194, uksahanitap@gmail.com
2.	Dr Kimjolly Lhouvum	HoD (BT)	9402788406, kimjolly.lhouvum1@gmail.com
3.	Dr. Nabam Rich	HOD (CE)	6033835958, nitapcehod@gmail.com
4.	Dr Nabakumar Pramanik	HOD (CHE)	9436271050, pramaniknaba@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

DIC, Academic
Dr. S K Chakraborty