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NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM
(An Institute of National Importance under Ministry of Education, Govt. of India)
CHALTLANG, AIZAWL, MIZORAM – 796012

Phone/Fax: 0389-2391699 / 0389-2391236 / 0389-2391774   Email: nit_mizoram@nitmz.ac.in

Ref. No.: NITMZ/ACAD (7)/Ph.D/2021/   **Date:**

Admission into Ph.D Program 2021-22 (SPRING)

Applications are invited for admission into the Ph.D. program in the following Departments (January–July 2022 Session):

Sl. No.	Name of the Department	Ph.D Category Advertised	Specialization/Area
1.	Civil Engineering (CE)	**Full-Time** (Regular) **Full-Time** (Sponsored /Self-financed) **Part-Time**	Structural Engineering, Geotechnical Engineering, Environmental Engineering, Transportation Engineering.
2.	Mechanical Engineering (ME)	**Full-Time** (Regular) **Full-Time**(Sponsored/ Self-financed) **Part-Time**	Design and manufacturing (Experimental and Numerical analysis of residual stress and distortion in welding structure, FE modelling and simulation of Arc Welding, Solid state Welding, Additive manufacturing, 3D printing etc.)
3.	Computer Science & Engineering (CSE)	**Full-Time** (Regular) (Project-staff) **Full-Time** (Sponsored/ Self-financed) **Part-Time**	Natural Language Processing, Machine learning, Data mining, Information Retrieval, Computational, Biology, Machine Learning, Deep Learning.
4.	Electronics & Communication Engineering (ECE).	**Full-Time** (Regular)	Nano-microelectronics, Optoelectronic devices, Green Technology, Solid State electronics, Bio-electronics.
		Full-Time(Sponsored/ Self-financed) **Part-Time**	Nano-microelectronics, Optoelectronic devices, Green technology, Solid state electronics, Bio-electronics. Microwave Sources, Microwave circuits, antennas, meta materials, digital image processing.
5.	Electrical & Electronics Engineering (EEE)	**Full-Time** (Regular)	Micro-grid, Non-conventional Energy Integration and Control, Smart Grid and E-mobility, Electric Drives and Control, Renewable Energy Integration and Control, E-mobility

		Full-Time (Sponsored/ Self-financed) **Part-Time**	Micro-grid, Non-conventional Energy Integration and Control, Power Electronics & Machine Drives, Power System, High Voltage, Smart Grid and E-mobility, Electric Drives and Control, Renewable Energy Integration and Control, E-mobility
6.	**Basic Science & Humanities & Social Sciences (BS & HSS)**		
i)	Chemistry	**Full-Time** (Regular) (Institute fellowship/CSIR-JRF/NET/GATE) **Full-Time**(Self-financed)	Emulsion, Polymer
ii)	Mathematics	**Full-Time** (Regular) (Institute fellowship/CSIR/JRF)	Fluid Dynamics, Vector Optimization, Fuzzy optimization, stochastic optimization, non-smoothed optimization, fractional differential equations. Mathematical programming, Non smooth and non-convex optimization problems, Uncertain Optimization Problems.
		Full-Time (Sponsored/ Self- financed) **Part-Time**	Fluid Dynamics, Vector Optimization, Fuzzy optimization, stochastic optimization, non-smoothed optimization, fractional differential equations. Mathematical programming, Non smooth and non-convex optimization problems, Uncertain Optimization Problems.
iii)	Physics	**Full-Time** (Regular) (Institute fellowship)	Material Science
iv)	Economics	**Full-Time** (Regular) (Institute fellowship)	Development Economics, Political Economy, Conflict and Peace Studies
v)	English	**Full-Time** (Regular) (Institute fellowship/JRF)	Post-colonial Literature, Northeast Literature, ELT, Feminism, African Literature, Dalit Literature.

EligibilityCriteria:

Ph.D in Engineering:

Masters Degree in the area of Engineering/Technology from a Recognized University/ Institute with a minimum CGPA of 6.5 in 10 point scale or 60% of marks in the qualifying examinations. GATE score is compulsory for Full-Time Regular candidates.

OR

Bachelor's Degree in Engineering/ Technology in a relevant area with a minimum CGPA of 7.5 or 70% of marks and with a valid GATE score.

Ph.D. in Science (Physics/Chemistry/Mathematics):

Master's degree in the area of Physics/Chemistry/Mathematics from a recognized University/ Institute with a minimum CGPA of 6.5 in 10point scale or 60% of marks in the qualifying examinations and qualify the NET/GATE. NET/GATE shall not be compulsory for Sponsored, Self-Financed, Project-Staff, and Part-Time categories. No Institute scholarship to be awarded for these types of students.

Ph.D. in HSS (Economics/English):

Master's degree in Economics/English from a recognized University/ Institute with a minimum CGPA of 6.0 in 10point scale or 55 % marks in the qualifying examinations and qualify the NET.

For SC/ST candidates, there is a relaxation of 0.5 CGPA or 5% of marks.
Conversion from CGPA to percentage or vice-versa shall not be allowed.

CATEGORIES OF Ph.D. STUDENTS

The Institute admits Ph.D. students under the following categories. However, admission with respect to this advertisement will be held for the advertised categories only.

2.1. Full-time:
   i.   Regular: He/she receives assistantship from the Institute or fellowship from any recognized funding agency depending on GATE/NET(UGC/CSIR)/other qualifications.
   ii. Sponsored: He/She is sponsored by a recognized R&D Organization/Institute/Industry etc. for doing Research, but gets no fellowship from the Institute.
   iii. Self-financed: He/She works full time for the Degree but gets no fellowship from the Institute.
   iv. Project-Staff: He/ She gets fellowship from the Sponsored Project, works full time for the degree, and on completion of the project before the award of the degree, the category will be changed to Self-Financed.

2.2. Part-time: He/She in this category works without fellowship from the Institute and should be employed. If Permanent Employee, he/she should provide NOC from the Employer.

How to Apply:

- Interested candidate(s) satisfying the eligibility criteria may submit their **online application at**
  https://nitmzadmission.mastersofterp.in/PHDLogin.aspx
- Read this Advertisement and the Instructions mentioned herewith, carefully, to fill in the online application form given in the online portal.
- Self-attested copies of necessary supporting documents and receipt of online payment (of Rs. **200**/-for General/OBC **OR** Rs. **100**/- for SC/ST); in favour of "Registrar, NIT Mizoram" payable at SBI, Bawngkawn Branch, Aizawl, Mizoram should be uploaded in the Application Portal. Transaction ID should be clearly mentioned in the Application Form.
  Name of Account: National Institute of Technology Mizoram
  SBI Account No. : 33755447886
  IFSC: SBIN0007059
- <u>Women candidates are exempted from the payment of the application fee</u>.
- The required document is to be furnished along with the application by candidates applying under various categories.

  Form I: Sponsorship Letter **(for the Sponsored Category).**
  Form II: No Objection Certificate (NOC) from the Institute **(for Project Staff category).**
  Form III: No Objection Certificate from the Employer **(for Part-Time Category).**
  Form V: No Objection Certificate **(for NIT Mizoram Employee – Part-Time Category).**
- Candidates should submit the above Forms (Form I/II/III/V) only in the prescribed format (provided in the Ph.D. Regulations of the Institute). No other format will be accepted.
- Candidates are advised to mention their Contact No. & Email IDs correctly in the application portal.
  Names of the short-listed candidates for attending test/interview shall be made available on the Institute's website or may be intimated by e–mail by the respective Head of the Department.
- Applicants can apply through the portal upto **31ˢᵗ December 2021 till 5:00 PM**.
- Hard copy of the filled-in application form complete in all respect to be produced at the time of Written-Test / Interview/ or as per the instruction of Institute's Authority. If the candidate(s) fail to produce the original application form and supporting documents at the time of test, or if their claims are found to be incorrect on verification, their candidature shall be cancelled automatically.
- **The session is likely to start from Last Week of January 2022**. List of finally selected candidates shall be published on the Institute's website.
- Candidates are advised to visit the Institute's website regularly. Any modification/changes/additions in the advertisement, if required, will be uploaded only in the Institute's Website.
- The number of candidate(s) to be selected will be decided afterward.

Important Dates:

- Application through the online Application Portal to be filled and the supporting documents to be uploaded till: **31st December, 2021 upto 5:00 PM.**
- Display the list of provisionally Shortlisted Candidates: **5th January, 2022.**
- Submission of hard copy of application and the supporting documents, verification of the documents:
  Will be announced in the Institute's Website.

- Method of selection, verification of documents etc. shall be decided by the competent authority and the information in this regard shall be uploaded in the Institute's website. Written Test, Interview and document verification etc. to be conducted by concerned Departments.
- Test/Interview of the Shortlisted Candidates: **6th – 10th January, 2022**
- Display of Final list of Selected Candidates: **14th January, 2022.**
- Online Payment of fee and online registration for selected students: **14th January, 2022 to 19th January 2022.**
- Start of Semester**: 20th January, 2022.**

Sd/-Registrar
NIT Mizoram

NB: Number of candidates for each Department shall be decided by the Competent Authority.