NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR IMPHAL-795004, INDIA

Advertisement for PhD Admission for January, 2025 session

No.NITM.3 (35-Acad)/Reg/PhD/2023-24/ R-705

Dated 28/ 11 /2024

Applications are invited for admission to PhD Program in the following disciplines for January-2025 Academic Session.

- Department of Civil Engineering
- Department of Computer Science and Engineering
- Department of Electrical Engineering
- Department of Electronics and Communication Engineering
- Department of Mechanical Engineering
- Department of Chemistry
- Department of Physics
- Department of Mathematics
- Department of Humanities and Social Science

A. CATEGORY

The Institute admits PhD students under the following Categories:

- 1. Regular
- 2. Sponsored(Full Time)
- 3. Self-sponsored(Full Time)
- 4. Part-time
- 5. Project Staff*
- 6. External
- * External funded projects

Note:

- 1. Institute fellowship will be provided only to NET/GATE qualified students
- 2. For category details and other related documents, please refer to PhD ordinance NIT Manipur -2020

B. IMPORTANTDATES

Opening of portal for submitting online admission form:	28/11/2024-28/12/2024
Last date for submitting online PhD Application form:	28/12/2024
Uploading List of shortlisted candidates:	on or before 03/01/2025
Offline written Test:	09/01/2025
Offline interview:	09/01/2025.
Uploading List of selected PhD candidates:	10/01/2025.
Submission of fees by selected PhD candidates on or before:	14/01/2025.

C. Details of the departmental requirements:

SI. No.	Department	Specialization	Essential Qualifications
1.	CIVIL Engineering	WaterResources:HydrologicalModelling &Water Balance Analysis, ClimateChangeHydrodynamics, Geospatial Applications in Hydrology & Water Resources, Flood Modelling & Forecasting,&Forecasting,Fluvial Hydraulics/Sediment Transport, Fluid flow modeling using Computational 	Master Degree in Engineering /Technology (or equivalent degree) with a minimum of 6.5 CPI/CGPA or a minimum of 60% marks from a recognized University/Institute; GATE/NET qualified candidates preferred. OR
		GIS & Remote Sensing:GeospatialApplications, HumanSecurity and Geospatial Intelligence,3D GIS, Geohazards, UAV & MobileMapping.EnvironmentalEngineering&	
Ша	antibute befilike er to PhE odination	Management. Removal of recalcitrant compounds from waste water, Removal of heavy metals from waste water, Drinking Water treatment, Solid Waste Management, Optimization on design of Sewage treatment plant, Optimization on design of Effluent treatment plant, Biological Process for secondary treatment Units, Environmental Impact Assessment, life cycle assessment, climate change adaptation, hazardous waste	minimum 60% marks from a recognized University/Institute; <i>GATE/NET qualified candidates</i> <i>preferred.</i> Bachelor Degree in Engineering / Technology with an excellent academic record, with a minimum 7.5 CPI/CGPA or 70% marks from a recognized University / Institute with a <i>valid</i> <i>GATE / NET score</i> .
202	19/12/2014-11/12	adaptation, hazardous waste management, and sustainability engineering. Structural Engineering: Earthquake	B. IMPORTANTBATES
202	28/12/28/2 an or Define 81/07 09/07/2013 09/07/2013	Resistant Design of Structures, Performance based Design, Seismic Vulnerability Assessment of Structures, Construction Materials, Steel Structures, Prestressed Concrete, Bridges, Finite	Last viste for submittin Equivaine List of the Elifburg Printer Leve

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	icas make a m	Element Methods, Numerical methods in Structural Engineering, Computer Aided Design approaches.	Communication Po Engineering Ci Ev
2.	Computer Science & Engineering	Elliptic curve cryptography, speech processing, Information security, artificial intelligence and data mining,, Medical Image Processing, Forgery Detection, Information Security, Machine Learning,	MasterDegreeinEngineering / Technologyorequivalent in IT/CSE or in relevantsubjects with a minimum6.5 CPI/CGPA or 60% marks from a recognized University/Institute.OR
	ito 2023 Seere. dari Dege maaring Trabool saidh relevau maarin 62 CPI co ke	tine Grage Vibratha and Ma estics form Donames, Fachs En- erfection in Roon aparana 60 estimate Mischgament Crick 740 stration of Active Meestic	Bachelor Degree in Engineering/Technology with an excellent academic record, with a minimum 7.5 CPI / CGPA or 70% marks from a recognized University/Institute and a valid GATE score.
3.	Electrical Engineering	Propulsion Drive System for Electric Vehicles using Wide Band gap Semiconductor Devices (i.e., GaN & SiC), Battery Charging System, Wireless Power Transfer Systems, Dynamic Wireless Charging, High- Efficiency Power Converters, Soft Switching, Multi-port Converters, Single-Active Bridge (SAB), and Dual Active Bridge (DAB) Converters, Design, development and testing of power electronics converter for grid integrated renewable energy systems, Grid integration of photovoltaic systems, Power quality improvement, Grid integration, Renewable Energy Planning, Soft computing, Cyber security & Resilience, Power system protection, power system optimization.	Master Degree in Engineering / Technology on equivalent in relevant subjects with a minimum 6.5 CPI/CGPA or 60% marks from a recognized University / Institute. <u>OR</u> Bachelor Degree in Engineering Technology with an excellen academic record, with a minimum 7.5 CPI/CGPA or 70% marks from a recognized University / Institute and a valid GATE score.

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4.	Electronics and Communication Engineering	Wireless Communication, Signal Processing, VLSI Design, Analog Circuit Design, Microwave, Communication system and signal processing, Nanotechnology, Internet of Things, etc	g Technology or M.Sc in relevant subjects with a minimum 6.5 CPI/CGPA or 60% marks.
	Adear in 16 C 3 Para and with a minimum of the Cart of the space	teat tatelligence and data ministry and bind brange Processing Property and refere information Security 61	Bachelor Degree in Engineering / Technology with an excellent academic record, with a minimum 7.5 CPI/CGPA or 70% marks from a recognized University/Institute and a valid GATE/NET score.
5.	Mechanical Engineering	MachineDesign,VibrationandAcoustics,RotorDynamics,FaultsidentificationinRotorSystems(Unbalance,Misalignment,Crack,etc.),SignalProcessing,andApplicationsofActiveMagneticBearings,Foil Bearings,AdvancedMachiningProcesses,Electric DischargeMachining,Powder-MixedElectric DischargeMachining,NearDryElectricDischargeMachining,Developmentofmetalmatrixcomposites,optimizationtheprocessesparameters,NaturalFiberbasedPolymerCompositesDevelopment,variousmechanicaltesting's to study their final properties.3Dprinting	Master Degree in Engineering / Technology or equivalent in relevant subjects with a minimum 6.5 CPI/CGPA or 60% marks. Bachelor Degree in Engineering/Technology with an excellent academic record, with a minimum 7.5 CPI/CGPA or 70% marks from a recognized University/Institute and a valid GATE score.
		Applications,Biomaterials,Biomedical devices and implant,Prosthetic, dental and orthotic devices,ComputationalBiomedicalEngineering.Design of Bio-enabled structures, HighPerformance Computational ModellingofEngineeredSystems,Multi-disciplinaryDesignOptimization,Cybersecurityindesignandmanufacturing,Additive	

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6.	Chemistry	Organic Chemistry & Catalysis, Material Chemistry, Nano material	Master Degree in Science in relevant subjects with a minimum 6.5 CPI/CGPA or 60% marks from a recognized University / Institute. <i>GATE/NET qualified candidates</i> <i>preferred.</i>
7.	Physics	Nano-technology and Nano-materials, Magnetic Materials, Semiconductor Materials, Electro ceramics materials, Nano-particles, Soft Matter Physics, Nano-composites, Nano material for water purification	Master Degree in Science in relevant subjects with a minimum 6.5 CPI / CGPA or 60% of marks from a recognized University / Institute. GATE / NET qualified candidates preferred.
8.	Mathematics	Mechanics and Relativistic Mechanics.	Master Degree in relevant subjects with a minimum 6.5 CPI / CGPA or 60% of marks from a recognized University / Institute. <i>GATE/NET qualified candidates</i> <i>preferred</i> .
9.	Humanities and Social Sciences	Indian Writing in English, Dalit Literature, Commonwealth Literature, African Writings	Master Degree in an appropriate area with a minimum 6.0 CPI/CGPA or 55% of marks from a recognized University/Institute. GATE/NET qualified candidates preferred.

for all many of the due and they have been application will not be considered.

D. Important Instructions for the Applicant

- Relaxation in % of marks/CPI/CGPA of minimum qualification: In the qualifying degree for the admission to Ph.D. program, the minimum CPI/ CGPA/ marks percentage shall be relaxed by 0.5 CPI/GCPA or 5 percent in case of candidates belonging to the SC/ ST/ OBC(NCL)/PWD categories.
- 2. Reservation for SC/ST/OBC (NCL)/EWS/PH is applicable as per Govt. of India rules.
- 3. Valid category certificate for OBC (Non-Creamy Layer)/EWS/SC/SC.
- 4. Sponsored candidates are required to submit their NOC while filling the online application form.
- Application fee (Rs.500 for Gen / OBC, OBC (NCL) and Rs.250 for (SC / ST / EWS / PWD) will be accepted through digital/online mode only through (HDFC BANK LTD, A/C holder's Name: Director NIT Manipur, A/C No. 50100622655745, IFSC: HDFC0001999, Type of A/C : Savings, Branch : Imphal Branch, MG Avenue) The details of fee payment need to be filled in the online form.
- 6. The name of the provisionally short listed candidates eligible for the written test and / or Interview shall only be displayed on the Institute website.
- 7. Written test and interview will be conducted for non-GATE and non-NET candidates through offline mode. Only interview will be conducted for GATE and NET qualified candidates through offline mode.
- 8. Candidates are advised to visit the Institute website www.nitmanipur.ac.in for regular updates.
- 9. No separate acknowledgment or call letter will be sent by the institute for appearing the Written Test at the Institute in physical mode.
- 10. As no separate Admit Card is issued for the Written Test, the candidates are informed to bring any standard Photo I-Card (in Original) with a photocopy thereof, such as Aadhaar Card, PAN Card, EPIC card, Driving License, I-card issued by their Employer, or any Govt./ Public Sector Organization etc.
- 11. Candidates reporting without any standard l-Card (in original) as stated above shall not be allowed to appear Written Test / Selection / Interview.
- 12. Candidates must report in the Institute at least 30 minutes before start of Written Test else they will not be allowed to appear the written Test.
- 13. Extension of time for admission reporting shall not be allowed. If a candidate fails to report for admission by the due date and time, his/ her application will not be considered.

- 14. Candidates at the time of admission are required to sign a bond stating that in case they fail to complete the PhD successfully, they will refund 50% of fellowship amount received from Institute.
- 15. The Institute reserves the right to cancel the candidature without assigning any reason thereof.
- 16. No correspondence will be entertained with the candidates who are not called for counseling /selected for appointment.

The applicants can apply for the PhD programme through the online application portal available at https://erp.nitmanipur.ac.in/PhDAdmissionApply/

(Prof. Kh. Tomba Singh)

Registrar, NIT Manipur

No.NITM.3 (35-Acad)/Reg/PhD/2023-24/

Dated: 28./..../2024

Copy to:

1. PS to the Director, NIT Manipur for kind information to the Director

2. All Deans, for kind information.

3. All Heads of Academic Departments, for kind information and necessary action.

4. Faculty In-charge, MIS for kind information and necessary action.

5. Technical Officer, NIT Manipur for uploading on the institute website

6. Concerned file

(Prof. Kh. Tomba Singh)

Registrar, NIT Manipur