NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR
IMPHAL-795004, INDIA

Admission to PhD Programme in Jan 2022 Session

Applications are invited for admission to PhD Programme in the following Disciplines for JAN 2022 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 Mathematics
- Department of Physics

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
   * JRF – External funded projects
   * * Institute fellowship will be provided only for NET/GATE qualified students

Reservation for SC/ST/OBC/EWS is applicable as per Govt. of India rules.

IMPORTANT DATES

Events	Date
Issue of application form.	10/11/2021- 10/12/2021
Last date for receipt of Soft/hard copy of Application (by speed post/courier) form.	10/12/2021
Date of examination.	Will be announced by the respective departments
Counselling and Admission of PhD programme	Will be announced by the respective departments

- Visit institute website: www.nitmanipur.ac.in regularly for more details and updates.

Details of the departmental requirements:

Sl. No.	Department	Specialization	Essential Qualifications
1.	Civil Engineering	Structural Engg on Seismic analysis, Environmental Engineering, Water Resources, Hydrology & Channel Hydraulics: ▪ Climate Change Hydrodynamics, ▪ Hydrological Modelling, ▪ Hydrographic Surveying, ▪ GIS & Remote Sensing Applications in Hydrology & Water Resources, ▪ Flood Modelling & Forecasting, ▪ Water Balance Analysis, ▪ Experimental Hydraulics Sediment Transport, Water Resources Engineering, GIS related topics, Structural Engineering	Master Degree in Engineering/Technology or equivalent in an appropriate area with a minimum CPI equivalent to 60% of marks as per conversion formula prescribed by the University/Institute. **OR** Bachelor Degree in Engineering/Technology or MSc/MCA (wherever applicable) in related areas with an excellent academic record, with a CPI equivalent to 70% of marks as per conversion formula prescribed by the University/Institute with valid GATE score.
2.	Computer Science Engineering	Elliptic curve cryptography, speech processing, Information security, artificial intelligence and data mining.	1st Class in both B.Tech ((IT/CSE) & M.Tech/M.E (IT/CSE) with Gate Score or B.Tech with 70 % and valid GATE Score preferably from Institute of National Importance
3	Electrical Engineering	Control System and Power Electronics, Propulsion Drive System for Electric Vehicles using Wide Bandgap Semiconductor Devices (i.e. GaN & SiC), Battery Charging System, Wireless Power Transfer Systems, Dynamic Wireless Charging, High-Efficiency Power Converters, Soft Switching, Multi-port	Master Degree in Engineering/Technology or equivalent in an appropriate area with a minimum CPI equivalent to 60% of marks as per conversion formula Master Degree in

		Converters, Single-Active Bridge (SAB), and Dual Active Bridge (DAB) Converters	Engineering/Technology or equivalent in an appropriate area with a minimum CPI equivalent to 60% of marks as per conversion formula prescribed by the University/Institute. **OR** Bachelor Degree in Engineering/Technology or MSc/MCA (wherever applicable) in related areas with an excellent academic record, with a CPI equivalent to 70% of marks as per conversion formula prescribed by the University/Institute with valid GATE score.
4	Electronics and Communication engineering	Wireless Communication, Signal Processing, VLSI Design, Analog Circuit Design, Microwave	
5	Mechanical Engineering	Electronic Cooling, Two-phase fluid flow and heat transfer, LES on Dimples surface, Film cooling in supersonic flow, Design of Bio-enabled structures, High Performance Computational Modelling of Engineered Systems, Multi-disciplinary Design Optimization, Cybersecurity in design and manufacturing, Additive manufacturing of complex and composite materials, Anti-reverse engineering technologies, Artificial Intelligence, Application in Manufacturing, Fabrication, Characterization and Machining of Composites, Micro manufacturing, Nano-materials, Application of Optimization techniques	
6	Mathematics	Fixed point theory, Numerical Analysis, Finite Element Method, Applied Mathematics, Microstrip antenna and FSS design for wireless communication, complex analysis-extremal properties of polynomial.	Master Degree in Science in an appropriate area with a minimum CPI equivalent to 60% of marks as per conversion formula prescribed by the University/ Institute. **NET/GATE with valid score/With any national fellowship**.
7	**Physics**	Dielectric materials and applications, Magnetic nanoparticles Multiferroics, Ferrites, Composites, Ferroelectrics, Semiconductors, Supercapacitor electrodes, nanomaterials	Master Degree in Science in an appropriate area with a minimum CPI equivalent to 60% of marks as per conversion formula prescribed by the University/ Institute.

APPLICATION CHECKLIST

The completed application form must be accompanied by the following documents:

i) Photocopy of marks sheet/Grade card of the secondary, higher secondary board and other university examinations.
ii) Photocopy of proof of date of birth.
iii) Photocopy of proper category (OBC/SC/ST/PH/EWS etc.) certificate from the competent authority.
iv) Form I/II/III/IV.
v) Passport size photographs.
vi) Reference no. of application fee (Rs. 500 for Gen/OBC/EWS and Rs. 250 for SC/ST). Details of the bank account:

Name:	Director National Institute of Technology Manipur
Acc. No.:	10160100021096
Bank and Branch:	Bank of Baroda, NIT Manipur
IFSC code:	BARB0NITMAN

The completely filled application form along with the documents should mail to admissionnitmanipur@gmail.com

Click here for download PhD application Form.

SELECTION PROCEDURE
The mode of recruitment will be done online.

SYLLABUS FOR THE ENTRANCE EXAMINATION
The syllabus for the entrance examination will be the latest GATE syllabus of the concerned discipline or syllabus prescribed by the concerned departments.

STIPEND / FINANCIAL ASSISTANCE
Assistantship to the regular students (NET/GATE or equivalent) as per MHRD rules may be given subject to availability of fund. The candidate with no NET/GATE will be in self sponsored category.

LEGAL JURISDICTION
All other cases, not covered in PhD Ordinances shall be referred to the Senate. All disputes pertaining to the counseling and admission for the Ph.D. programme of NIT Manipur shall fall within the jurisdiction of Imphal, Manipur only.

Application form complete in all respects should mailed to admissionnitmanipur@gmail.com

With the subject "Ph.D. application and their respective department". The file name should be the candidate's name along with department.

FORM I- SPONSORSHIP LETTER

(This should be typed on the letter head of the sponsoring organization)

Reference No.

Date:

To

   The Director

   National Institute of Technology Manipur

Subject: Sponsoring an Employee for PhD Programme

Sir,

   We hereby sponsor the candidatureofMr/Ms .... who is an employee inour

organization, for joining PhDProgrammein .... at your Institute as a full timestudent.

It is certified that he/shehascompleted .... years of service in our organization as a regularemployee.

Weshallrelieve him/herofhis/herdutiesintheorganizationduringthefirsttwoyearsofPhDprogramme.

Signature and Seal of the Sponsoring Authority

FORM II- NO OBJECTION CERTIFICATE FOR NIT MANIPUR PROJECT STAFF

(This should be typed on the letterhead of R&C Section of NIT Manipur)

Reference No.

Date:

To

The Director

National Institute of Technology Manipur

Subject: No Objection certificate for NIT Manipur Project Staff

Sir,

The R&C Section of NIT Manipur has no objection if Mr/Ms .... a project employee in the project .... under .... department, is admitted in the PhD programme in ....

PrincipalInvestigatoroftheconcernedprojecthasagreedtoallowhim/hertoattendclasses/researchworkduring the PhDprogramme.

Signature and seal of Dean (R&C)

FORMM III – NO OBJECTION CERTIFICATE FOR PART TIME STUDENTS

(This should be typed on the letter head of the sponsoring organization)

Reference No. Date:

To

The Director,

National Institute of Technology Manipur

Subject: No Objection Certificate

Sir,

We have no objectionifMr/Ms ....an employee in our organization, isadmitted

to the PhDprogrammein................... at your Institute as a Part Timestudent.

It is certified that he/shehascompleted ----years of service in our organization/institute as a regularemployee.

We shall grant him/her leave of absence to attend classes/ research works at NIT Manipur during PhD programme.

Signature and Seal of the Sponsoring Authority

FORM IV-SPONSORSHIP CERTIFICATE OF EXTERNAL REGISTRATION

(This should be typed on the letterhead of the sponsoring organization)

Reference No. Date:

To

The Director,

National Institute of Technology Manipur

Subject: Sponsoring an employee for PhD programme for external registration

1. Name of the
   sponsoringorganization Address
2. Designation of theapplicant
3. Present status of theapplicant
4. List of division/section where research work is proposed to bedone
5. List of available localsupervisor(s)

(Bio-data of local supervisor(s) to be enclosed giving details of designation, qualification, research experience with area of research etc along with their consent for research guidance)

6. Details of relevant facilities which will be made available to thecandidate:

It is certified that he/she   has completed ....   years of service in our organization/institute as a regular employee.

If Mr/Ms ....   is admitted to the PhD programme, we agree to reli eve him/her to enable him/her to be available at NIT Manipur to attend classes for completion of his/her course work relating to the PhD programme.

Mr/Ms.............................. will be permitted tocarry out research leading to the PhD degree at our organization

under the guidance of selected local supervisor. The necessary facilities will be provided for the purpose.

Signature and Seal of the Sponsoring Author