



राष्ट्रीय प्रौद्योगिकी संस्थान सिलचर
NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR
अध्यक्ष का कार्यालय (शोध एवं परामर्श)
OFFICE OF THE DEAN (RESEARCH & CONSULTANCY)

No.: Dean (RC)/105/2026-27/1

Date: 23.10.2026

Applications are invited for admission to the Ph.D. program in the following departments, with the areas/specializations and admission group as mentioned in the table, for the **January to June 2027** session.

ADMISSION GROUP:

There are two Groups of admission to a Ph.D. Program: 1. Group A (**With Fellowship**), 2. Group B (**Without Fellowship**)

GROUP A: Ph.D. Program - Regular Category who may receive a fellowship from the MoE / CSIR / UGC or any other recognized funding agency.

Fellowship: As per MoE / CSIR / UGC guidelines.

A Research Fellowship is available to scholars admitted to Ph.D. programs across different departments, subject to availability as stipulated by the Ministry of Education. The award and renewal of the fellowship are in accordance with the guidelines issued by MoE from time to time.

Students who secure a new job or otherwise wish to leave the institute and end their doctoral program prematurely need to refund any scholarships received.

Eligibility for application in GROUP A:

All the shortlisted candidates for Group A must appear for the Centralized Written test at NIT Silchar, in addition to the following eligibility criteria.

1. **Students for admission into Ph.D. Programs in Engineering Departments must satisfy one of the following criteria:**
 - i) M.E. / M. Tech. or equivalent **with** GATE / NET qualification / Appropriate National Level Examination (**Centralized Written test at NIT Silchar**) in an appropriate area with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC/ST/PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55% of marks).
 - ii) B.E./B. Tech. with an excellent academic record, with a valid GATE score, and with a CPI of at least 8.0 (on a 10-point scale) or equivalent (75% of marks). For graduates from IITs/NITs, the minimum CPI requirement is 7.0 (on a 10-point scale). For SC/ST/PwD candidates, there is a relaxation of 0.5 CPI or 5% of marks.
2. **Students for admission into the Ph.D. Programs in Science departments** must have a Master's degree in the relevant discipline with a GATE/ UGC-NET / CSIR-UGC NET /NBHM score and an appropriate National Level Examination (**Centralized Written test at NIT Silchar**) for admission with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC/ST/PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55% of marks) with a GATE/ UGC-NET / CSIR-UGC NET /NBHM score is required for admission.
3. **Students for admission into the Ph.D. Programs in the Department of Management Studies** must have a Master's degree in Business Administration or Master's degree in Engineering/ Technology with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks) or Master's degree in other disciplines with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC/ST/PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55% of marks) is required. A score in GATE/ UGC-NET / CSIR-UGC NET and an appropriate National Level Examination (Centralized Written test at NIT Silchar) is required for all.
4. **Students for admission into the Ph.D. Programs in the Department of Humanities and Social Sciences (HSS)** must have a Master's degree in any relevant field with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks) or a Master's degree in other disciplines with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC/ST/PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or

equivalent (55 % of marks) is required. A score in GATE/ UGC-NET / CSIR-UGC NET and an appropriate National Level Examination (**Centralized Written test at NIT Silchar**) is required for all.

GROUP B: Ph.D. Program–No financial assistance or stipend by NIT Silchar will be provided for this GROUP.

There are six categories under this GROUP:

- I) **Regular** – The regular students are those who work full-time for their Ph.D. and are self-financed.
- II) **Sponsored** – who are employed in the Central/ State Govt. Departments /PSUs /Reputed Educational Institutes/ Research organizations/ Reputed Industries for doing research in the Institute on a full-time basis. He/ She should have at least two years of working experience in the respective field before the last date of application. The candidate must submit the completed employer sponsorship letter (FORM I) with the application for admission. He / She shall not be entitled to any financial support from the Institute.
- III) **Part-Time** – This category refers to the candidates who are professionally employed personnel. They have to stay at the Institute or in the vicinity during the coursework period so they can attend regular classes as per the Institute's academic norms. The applicant must be an employee of the State/Central Government. Departments/ PSUs/Reputed Educational Institutes/Research organizations/ Reputed Industries at the time of admission, having at least one year of experience in the discipline in which admission is sought. No financial assistance shall be provided by the Institute to such students. A No Objection Certificate from the Head of the Institute/Organization, in which he/she is employed, must be enclosed with the application in FORM II.
- IV) **Institute Employees** – Employees of NIT Silchar. A No Objection Certificate from the concerned Head of the Department and the Director must be enclosed with the application form (FORM II-B).
- V) **Project Staff** –This category refers to the candidates who work on sponsored projects in the Institute. A No Objection Certificate from the Principal Investigator of the concerned project and the Dean(R &C) must be enclosed with the application form (FORM II-A).
- VI) **Sponsored (External Registration)** – Candidates employed in R&D organizations/educational Institutes having adequate research facilities. A sponsorship certificate (FORM III) from the Head of the organization where the candidate is employed must be enclosed with the application.

Eligibility for application in GROUP B:

All the shortlisted candidates for Group B must appear for the Centralized Written test at NIT Silchar in addition to the following eligibility criteria.

Engineering Departments:

Students for admission into Ph.D. Programs in Engineering Departments must satisfy one of the following criteria:

M.E/ M. Tech. or equivalent in an appropriate area with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC/ST/PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55% of marks).

OR

Candidates with an **MBBS/BDS degree and/or equivalent** from an Indian University/Institution with a **minimum CPI of 6.0 (on a 10-point scale)** or equivalent (**55% of marks**) in the qualifying degree. Also, they should possess a **compulsory one-year internship**. For SC/ST/PwD candidates, there is a relaxation of 0.5 CPI or 5% of marks.

OR

Candidates with a **Master of Surgery (MS)/ Doctor of Medicine (MD) / MDS degree** from an Indian University/Institute are **exempted from the minimum CGPA requirement**.

OR

Candidates with a **medical degree from an overseas University/Institute** must have **qualified for the Foreign Medical Graduate Examination (FMGE)** conducted by the **National Board of Examinations (NBE)**.

Science Departments:

Students for admission into the Ph.D. Programs in Science departments must have a Master's degree in the relevant discipline with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC/ST/PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55% of marks) is required.

Department of Management Studies:

Students for admission into the Ph.D. Programs in the Department of Management Studies must have a Master's Degree in Business Administration or a Master's Degree in a relevant discipline, with a minimum CPI of 6.5 (on a 10-point scale) or an equivalent (60% of marks). For SC/ST/ PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55% of marks) is required.

Department of Humanities and Social Sciences (HSS)

Students for admission into the Ph.D. Programs in the Department of Humanities and Social Sciences (HSS) must have a Master's degree in a relevant field with a minimum CPI of 6.5 (on a 10-point scale) or equivalent (60% of marks). For SC /ST/ PwD candidates, a minimum CPI of 6.0 (on a 10-point scale) or equivalent (55 % of marks) is required.

APPLICATION PROCEDURE

The applicant can apply for the PhD program through the online application portal available at <https://admission.nits.ac.in/> (else, copy the link and paste it in the browser)

A Processing Fee of **Rs. 1000/-** (for Open/OBC) or **Rs. 500/-** (for SC/ST/ PwD/EWS) must be paid via online payment and the steps for online payment are as follows:

1. www.onlinesbi.sbi
2. State Bank Collect (SB Collect).
3. Accept and proceed.
4. State of Institute>Assam.
5. Type of Institute>Educational institute>Go.
6. Educational Institutions Name>Select online fee collection account NIT Silchar>Submit.
7. Select payment category as “**Processing fee for PhD Admission**”.
8. Fill in the required information and submit.

The payment reference number and payment date must be provided in the online application form; otherwise, the application will be treated as canceled.

The applicant must upload all relevant self-attested documents related to the credentials claimed in PDF format. The final PDF copy of the Application form must be emailed to phd_admission@nits.ac.in **on or before 16.11.2026. Subject line should be “Application for Ph.D. program-Name of the department (applying for)-Group A /Group B”. No need to send the hard copy of the Application form.**

The candidates are advised to give their latest contact numbers/ e-mail IDs in the application form. The Institute reserves the right to reject any or all applications, or to amend any of the clauses above as per the orders of the competent authority/Government of India.

The results will be available on the website.

Important Dates:

(i)	Last date of submission of the form to the Institute:	16.11.2026
(ii)	Date of publication of the shortlisted candidates for the interview & written test	25.11.2026
(iii)	Date of interview & written test by the department	09.12.2026
(iv)	Date for publication of provisionally selected candidates for admission	18.12.2026
(v)	Date of Registration	04.01.2027 to 06.01.2027

Selection Procedure:

The selection process will comprise the following steps:

- Shortlisting will be made by the department on the basis of academic performance (starting from Class X onwards).
- All shortlisted candidates (Group A and Group B) need to appear for a **Centralized Written test at NIT Silchar** for the respective department as per the GATE/NET/UGC syllabus, followed by a personal interview at the respective departments.
- Mere qualifying the written test and interview will not bestow confirmation of selection for the Ph.D. program at NIT Silchar.

GENERAL TERMS AND CONDITIONS

1. The Institute reserves the right to cancel the candidature without assigning any reason thereof.
2. The prescribed qualification is minimum, and mere possession of the same does not entitle candidates to be called for the written test and interview.
3. No correspondence will be entertained from any candidates who have not been shortlisted for the centralized written test.
4. Canvassing in any form will result in the disqualification of candidature.
5. Legal disputes, if any, will be restricted within the jurisdiction of Silchar Court only.
6. Candidates should submit their application form along with all supporting documents, duly self-attested, at the time of verification.
7. All reserved category candidates shall be required to submit self-attested copies of the latest Caste certificate issued by the competent authority.
8. Candidates must produce original mark sheets and certificates during document verification if called for the written test.
9. Candidates appearing for final year ME / M.Tech. /M.Sc. / M.A. / M.B.A. are also eligible to apply. However, their final result must be published on or before the final admission.
10. The date of the written test, interview, and provisional selection list will be published on the institute's website, including waitlisted candidates, and the period of Registration will be published as per the above date.
11. **Candidates are requested to check the institute website regularly for updates.**
12. Hostel accommodation is subject to availability.
13. Candidates are requested to provide their active email ID/mobile phone numbers/land line phone numbers in the application form for easy contact.
14. No TA/DA will be paid for attending the Centralized written test at NIT Silchar.

Department-wise area of research

Department	Area of Research	Group
Civil Engineering	• Transportation Engineering and Planning • Traffic Engineering and Safety • Pavement Materials and Design • Structural Engineering • Structural Dynamics and Earthquake Engineering • Civil Engineering Materials • Geotechnical Engineering • Geotechnical Earthquake Engineering • Water Resources Engineering • Coastal Engineering • Remote Sensing and GIS • Environmental Engineering	A&B
Computer Science and Engineering	• Artificial Intelligence, Machine Learning, and NLP • Speech Processing • Image Processing • Mathematical Imaging • Digital Geometry • Wearable Sensor Data Analysis • Computer Network • Distributed Computing • Optimization • Security • Cellular Network (5G/6G) • Quantum Computing • Internet of Things (IoT)	A & B
Electronics and Communication Engineering	• Micro/Nanoelectronic Devices, Circuits & Systems • Nanotechnology • Analog, Digital & Mixed-Mode VLSI Design, Embedded Systems • Advanced Semiconductor Devices & Memory Technologies, Chip Design, Photonics • MEMS/NEMS, Solar Photovoltaics • Robotics & IoT • Signal Processing, Speech Processing, Image & Video Processing, Biomedical Signal and Image Processing • Machine Learning & Soft Computing Techniques • 5G/6G & Beyond, RF & THz Technologies, Antennas, Microwave and Millimetre-Wave Engineering, Metamaterials • Wireless Communication, Cognitive Radio Network, Wireless Sensor Networks, Communication Systems, Millimeter Wave Communications, Green Communications, Massive/Cooperative MIMO, Optical Communications • Computer Vision, Medical Imaging, Machine Learning, Soft Computing Techniques, Energy Harvesting	A&B

Electrical Engineering	• Power and Energy System Engineering • Control Systems Engineering • Power Electronics and Drives • VLSI, Embedded System and Image Processing • High Voltage Engineering	A&B
Electronics and Instrumentation Engineering	• Automation, Control, Robotics and Systems. • Biomedical Engineering, Ambulatory Systems. • Communication Systems. • Signal and Image Processing. • Energy Storage & Renewable Energy Systems. • Micro/Nano Electronics, Simulation, Semiconductors and VLSI. • AI Analytics and Blockchain Computation in Engineering. • Drone Technology. • Battery Management Systems, Electric Vehicles, IoT. • Condition Monitoring and Fault Diagnosis.	A&B
Mechanical Engineering	• Design. • Manufacturing Sciences. • Materials Engineering. • Renewable Energy • Thermal Engineering	A&B
Chemistry	• Organic Chemistry • Inorganic Chemistry • Renewable Energy • Physical Chemistry • Environmental/Analytical Chemistry • Nanoscience and Nanotechnology • Computational Chemistry and Molecular Modeling • Supramolecular Chemistry • Biomass and Bioenergy • Two-dimensional (2D) and three-dimensional (3D) porous materials and applications • Catalysis/Photocatalysis • Waste Management and Recycling • Drug/ligand-Protein Interaction • Nano electronics and nanomaterials(DFT based studies) • Solid State Chemistry & Crystallography	A&B
Physics	• Experimental Condensed Matter Physics: • Computational Condensed Matter Physics • Theoretical High Energy Physics	A&B

Mathematics	• Numerical Analysis, Finite Element Methods, Differential Equations • Functional Analysis and Operator Theory • Differential Equations, Mathematical modelling • Numerical methods for engineering problems • Computational Fluid Dynamics: micro-nanofluidics Modelling • Theory of Partitions and the mathematics influenced by Ramanujan • Fuzzy decision making • Single and Multi-objective Optimization, Networking Optimization, MCDM, AI and ML • Evolutionary Optimization • Biomechanics; Fluid Mechanics; Differential Equations, Wavelet Transforms • Numerical Methods to PDE • Mathematical Modelling, Spectral Element Methods for Partial Differential Equations, Computational Fluid Dynamics(CFD) • Operations Research & Optimization Techniques, Supply Chain Management • Inventory Management, Mathematical Modelling, Elastodynamics • Complex Analysis	A&B
Humanities and Social Sciences	• Macro, Macro economics, Development Economics, Labour Economics, International Economics • Financial, Environmental, Agricultural & Behavioural Economics • 1947 Partition Studies and Eco-literature	A&B
Management Studies	• Marketing Management • Service Marketing • Digital Marketing • Travel and Tourism Management • Healthcare Management • Hospitality Management • Strategic Management • Human Resource Management • Organizational Behavior • Industrial Relations and Labor Laws	A&B

FORM I

SPONSORSHIP LETTER FOR FULL-TIME PH.D. PROGRAM

(Should be typed on the letterhead of the sponsoring organization)

Reference No.

Date:

To

The Director
National Institute of Technology Silchar
Silchar-788010, Assam

Sub: Sponsoring an Employee for Ph.D. Program

Dear Sir,

We hereby sponsor the candidature of Mr./Ms./Mrs. _____,

Designation: _____ who is a regular employee in our organization, for joining Ph.D. Program
in the department of _____ at your Institute as a full-time student.

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

He/she has gained experience in the field(s) _____.

If selected, we shall relieve him/her from his/her duties to join the program during the first three years of the Ph.D.
Program.

Signature and Seal of the Sponsoring Authority

FORM II

No Objection Certificate for Part-Time Students

(Should be typed on the letterhead of the sponsoring organization)

Reference No.

Date:

To

The Director
National Institute of Technology Silchar
Silchar-788010, Assam

Sub: No objection Certificate

Dear Sir,

We have no objection if Mr./Mrs/Ms. _____, Designation:
_____an employee/project staff in our organization, is admitted to the Ph.D. Program in the department
of _____at your Institute as a part-time student.

It is certified that he/she has completed one year of service in our organization. If selected, we shall sanction him/her leave of absence to attend classes/research work at NIT Silchar during the Ph.D. program.

Signature and Seal of the Sponsoring Authority



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

FORM II-A

No Objection Certificate for Admission into Ph.D. Program (Project Staff)

Reference No.

Date:

To

The Director
National Institute of Technology Silchar
Silchar-788010, Assam

Sub: No objection Certificate

Dear Sir,

We have no objection if Mr./Mrs/Ms. _____, Designation: _____ a project staff, under the project: (title of the project), Sanction letter no. _____, in the department of _____, is admitted to the Ph.D. Program in the department of _____ of NIT Silchar as a Group-B Regular student. It is certified that the said project shall continue for one more year.

If selected, we shall allow him/her to attend classes and conduct research under the said project at NIT Silchar during the Ph.D. program, without affecting the normal project work assigned to him/her.

Signature of Project Investigator
(Name)

Signature of Dean (R & C)



NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR

FORM II-B

No Objection Certificate for Admission into Ph.D. Program (Institute Employee)

Reference No.

Date:

It is certified that we have no objection if Mr./Mrs/Ms. _____,
Designation: _____, a (regular / contractual) employee
of this Institute, working in the department of _____,
is admitted into the Ph.D. Program in the department of _____
at this Institute as a part-time student.

If selected, he/she shall be allowed to attend classes/research work without affecting normal duties assigned to him/her.

Signature of Head (Department :.....)

Signature of Director

FORM III**Sponsorship Certificate for External Registration**

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

Reference No.

Date:

To

The Director
National Institute of Technology Silchar
Silchar-788101, Assam

Sub: Sponsoring an Employee for Ph.D. Program under external registration

1. Name of the sponsoring organization:
2. Address:
3. Name of the Candidate:
4. Designation of the applicant:
5. Present status of the applicant:
(regular/year of completed service)
6. Department/Division/Center where research work is proposed to be done:
7. Name of the Local (Joint Supervisor):
(Bio-data of the Local supervisor (Joint Supervisor) to be enclosed, giving details of designation, qualification, research experience, etc.)
8. Details of relevant facilities which will be made available to the candidate:
9. Statement of Local supervisor (Joint Supervisor):

Dear Sir,

If Mr./Mrs./Ms. _____ is admitted to the Ph.D. program at National Institute of Technology Silchar, I agree to supervise his/her research program jointly with the Supervisor from NIT Silchar.

Signature of Local supervisor (Joint Supervisor)

If Mr./Mrs./Ms. _____ is admitted to the Ph.D. program, we agree to relieve him / her to reside at NIT Silchar / around NIT Silchar during one/ two semesters of his /her Ph.D. program to complete his/her coursework requirement.

Mr./Mrs./Ms. _____ will be permitted to carry out research at our organization under the guidance of Dr. _____, leading to a Ph.D. degree from NIT Silchar. Necessary facilities will be provided for this purpose.

Signature and Seal of the Sponsoring Authority