INFORMATION BULLETIN

Admissions to Full-Time M. Tech./ M. Plan/M.Sc. Programmes under the Self-Sponsored Category

&

Full-Time M. Tech./M. Plan. Programmes under the Sponsored[1] Category for the Academic Year 2026-2027

National Institute of Technology Calicut
(An Institute of National Importance)
N.I.T. Campus P.O., Calicut – 673601, Kerala, India
Phone +91-495-2286101, Fax: +91-495-2287250
www.nitc.ac.in

[1] sponsored from Industries/R&D Organizations/Central and State Government Institutions/ Defence Organizations/ Other Reputed Private Organizations/Institutions.

CONTENTS	Page No.
Part- I PROFILE OF THE INSTITUTE	
Introduction	3
Location	3
Central Computer Centre	3
Campus Networking Centre	4
Library Facilities	4
Centre for Career Development	5
Health Centre	5
Centre for Computational Modelling and Simulation	5
Programmes of Study	6
Major Areas of Research and Consultancy	8
Part- II ADMISSION TO FULL TIME M.TECH./ M. PLAN. /M.Sc. PROGRAMMES (SELF-SPONSORED)	
Admissions to Full-Time M.TECH./ M. PLAN. Programmes (Self-sponsored & Sponsored)	17
M.Tech. and M.Plan. Programmes with Seat Intake	18
Eligibility for Admission to M.TECH./M. PLAN. Programmes	19
Admissions to Full-Time M.Sc. Programmes (Self-sponsored)	34
Eligibility for Admission to M Sc. Programmes	34
How to Apply	35
Fee Structure	37
Important Dates	39

Part- I PROFILE OF THE INSTITUTE

A. Introduction

National Institute of Technology Calicut (NITC) is one of the premier national institutions for technical education in India. This was originally established in September 1961 as "Calicut Regional Engineering College (CREC)", jointly by the Government of India and the Government of Kerala. The Ministry of Education (Formerly Ministry of HRD), Government of India elevated CREC to a Deemed University and renamed CREC as National Institute of Technology Calicut in June 2002. NIT Calicut is an academically autonomous Institute of National Importance fully funded by the Government of India and is administered by the National Institutes of Technology Act, 2007. The President of India is the visitor to the Institute under the Act. The governance structure includes the national council for NITs as the apex policy making body, while the Institute's governance is vested with a Board of Governors. Institute's senate is the authority in academic matters. Chairman of the Board of Governors is nominated by the visitor. NITC offers academic programmes leading to B.Tech., B.Arch., M.Tech., M.Plan., M.Sc., MBA and Ph.D. degrees in various disciplines. NITC is a recognized Quality Improvement Programme (QIP) Centre for offering M. Tech. and Ph.D. programmes for faculty members of Engineering Colleges & Polytechnics. The institute is a recognized research institution for pursuing research work leading to Ph.D. degree under the National Doctoral Fellowship Scheme. NITC has well qualified faculty and dedicated supporting staff. Apart from teaching, NIT Calicut is engaged in a wide spectrum of activities covering research and development, industrial consultancy, continuing education to faculty/staff, and community development.

B. Location

Set in a picturesque landscape at the foothills of the Western Ghats, NIT Calicut is located about 22kilometers north-east of Kozhikode city in the state of Kerala, India. Calicut, also known as Kozhikode, located in the Malabar region of Kerala State, found a place in the world history with the discovery of a sea route to India in 1498 by the Portuguese navigator Vasco Da Gama. Basking in the idyllic setting of the Arabian Sea on the west and the proud peaks of the Wayanad hills on the east, Calicut is known for its serene beaches, lush green countryside, historic sites, calm backwaters, wildlife sanctuaries, rivers and waterfalls. The campus of National Institute of Technology Calicut stretches over a length of about 1.5 km along the Calicut-Mukkam Road, extending over an area of approximately 120 hectares. NITC is connected with Calicut city by KSRTC Buses (towards Mukkam) starting from KSRTC Central Bus Station and by Private Buses starting from Corporation Bus Station, Palayam (near Calicut Railway Station). Taxi and auto-rickshaws are available from Calicut Railway/Bus Station to NITC. The nearest airport is at Karipur, which is 45 kms from the Institute. Kozhikode railway station is 23 kilometers away from the NITC campus. Local buses are available frequently for commutation between campus and the main city.

C. Central Computer Centre

Central Computer Centre (CCC) is the central facility in NIT Calicut which caters for the computingrequirements of the whole community of this institution. The center has state of the art infrastructure with four fully operational terminal rooms spanning over three floors of the building. Institute Management System (IMS) of the institute also operates from the Centre building. The Centre has 250+ client machines and has a capacity to include 400+ machines. Client systems are of both desktop and workstation genre. Desktops contain DELL OPTIPLEX 7010, DELL Precision T3610, HP 406 Micro tower and HP Prodesk series which are of adequate

performance and workstations contain Fujitsu Celsius W570 power series machines which are capable of more than handling high-end production and design level applications. CCC hosts some of the high-end servers and a parallel processing cluster machine. Servers include DELL PowerEdge T620 which has a dual Hexa-core processor, Lenovo Think System SR650 with 32GB Nvidia V100 card and HP ProLiant Rackserver which has a dual quad-core processor. A state of the art HPC system with 25 Tera FLOPS computing power meet the research needs of the Institute. The facility can be accessed by all the departments anywhere in the campus through networking. Computers in the CCC are loaded with Windows and Linux operating systems for convenience and centralized authentication is provided. Students are mandated to follow strict classroom discipline inside the Centre. Centre is fully air-conditioned and has UPS power backup for the whole setup. The Centre works 16 hours a day (8 am – 12 midnight), 7 days a week, except national holidays unless instructed otherwise.

D. Campus Networking Centre

The NITC Campus Networking Centre(CNC) is the central facility providing internet, intranet, IP Phone, Email, hardware and software support to the entire staffs and students community of NITC Campus.

CNC manages the internet connectivity(both wired and wireless). For the network services, center has the high end computational servers on which accounts are given to students, staff and faculty of the departments. National Institute of Technology Calicut has an extensive fiber optic network over the whole campus. The present campus network basically comprises of more than 30 KMs of Fiber Optic cable backbone with 80+ routed internal networks managed by Unified Threat Management System. Presently the network is served by 12 Gbps (1Gbps internet leased line from NKN,1Gbps internet leased line from BSNL and 10 Gbps internet leased lines from BSNL). Hardware maintenance unit of CNC provides quality service support to minimize system downtime in the entire campus. The services include installation, troubleshooting and maintenance of computer and peripheral devices, operating system and software installation.

E. Library Facilities

The Central Library of NIT Calicut, established in 1961, is a premier technical library in South India, serving over 8,000 users. It houses a vast collection of over one lakh books and offers fully automated services via KOHA. Users can access the catalog online through KOHA OPAC, integrated with the campus-wide intranet for seamless operations. The library provides access to top international and Indian journals through the One Nation **One Subscription (ONOS)** initiative. Its digital library, **NALANDA**, offers online access to **13,500+** journals and **11,500** e-books across engineering and science disciplines.

Major online resources available include journals, magazines, conference records, and standards from renowned publishers such as AAAS-Science, ACM, ACS, AIAA, AIP, American Mathematical Society, APS, American Society for Microbiology, Annual Reviews, ASCE, ASME, Bentham Science, BMJ Journals, Cambridge University Press, Cold Spring Harbor Laboratory Press, Sciencedirect, Emerald Publishing, ICE Publishing, IEEE, IndianJournals.com, IOP Science, Lippincott Williams & Wilkins (Wolters Kluwer), OUP, Project MUSE, Sage, SPIE Digital Library, Springer, T&F, Thieme Medical Publishers, Wiley, RSC, and SIAM Journals.Additionally provides e-copy of various newspapers and magazines through Edzter platform.

In addition to its extensive journal, the library supports academic work with a range of writing tools, including Overleaf, QuillBot, Writefull, and Researcher.life, iThenticate and provides access to the E4TP course. The NITC community can also utilize online databases such as CMIE, Scopus, EPWRF, SciFinder, and Web of Science. Furthermore, the library offers a rich collection of e-books

from leading publishers like De Gruyter, Elsevier, IOP Publishing, Pearson, Springer, Taylor & Francis, Wiley, World Scientific, Cambridge University Press, Oxford University Press, PHI Learning, and McGraw-Hill Education. To further aid research and academic integrity, the library subscribes to BIS and ASTM standards and provides access to the plagiarism detection tool, Turnitin. The digital library is continuously expanding by collecting and indexing students' project reports and theses via the ETD (Electronic Theses and Dissertations) platform powered by D Space.

F. Centre for Career Development

Centre for Career Development envisages to inculcate a career-oriented campus culture that moulds the undergraduate, postgraduate and doctoral research students of the Institute to pursue their academic and professional goals. Formerly this centre was known as the Centre for Training and Placement which was formed in 1988. Understanding the need for a broader role to be taken for our students, the Centre for Career Development has been formed with effect from March 2022. This Centre is functioning with the following Objectives:

- Connect the students with placement and internship opportunities;
- Educate the students on knowledge of the self, career options and resources available;
- Empower the students with skill sets required in their careers.

G. Health Centre

The Health Centre at NIT Calicut is dedicated to providing comprehensive medical care and promoting the well-being of all students, faculty, and staff. Equipped with modern healthcare facilities, the center offers a wide range of services, including general consultation, emergency care for the Students and Staff of the Institute.The Health Centre is staffed with experienced doctors, nurses, and healthcare professionals who are available to assist with any medical needs. Additionally, the Health Centre ensures a preventive approach to health through regular camps, health awareness programs. With its commitment to a healthy campus environment, the Health Centre plays a pivotal role in supporting the academic and personal growth of students, ensuring they remain physically and mentally fit throughout their academic journey.

H. Centre for Computational Modelling and Simulation

The Centre for Computational Modeling and Simulation (CCMS) was established in 2020 to meet the rising demand for high-end computational modeling in research. A High-Performance Computing (HPC) Cluster, named 'Madhava,' and an NVIDIA DGX Station purchased under HEFA are the major computing facilities under this centre. The Madhava HPC facility consists of 31 CPU nodes and 2 GPU nodes. The NVIDIA DGX Station has four V100 GPU accelerators. The facility is mainly for developing and running parallel codes for research purposes and is widely used by faculty and students of the institute, enabling frontier research in diverse fields such as bioinformatics, cheminformatics, computational quantum chemistry, computational material science, computational fluid dynamics, image processing, drug design, etc. The HPC system installed has been ranked as the 62nd in the list of the top 100 computing machines in India, as of January 2025, according to a list maintained by CDAC, Bangalore.

Facilities and Services
• Madhava HPC Cluster (Computational Power: 69 Teraflops)
Total number of nodes: 36
Master node: 1

CPU nodes: 31
GPU accelerated nodes: 2
Storage nodes: 2

• Deep Learning System
Model: NVIDIA DGX Station
GPU Card: NVIDIA TESLA V100, 32GB
Number of GPUs: 4

I. Programmes of Study

NITC offers undergraduate programmes leading to B. Tech. degree in 10 disciplines and post-graduate programmes leading to M. Tech./M. Plan degrees in various specialized streams. In addition to this, the institute offers MSc degree programmes in three streams and an MBA programme (2 years - 4 semesters). The Institute also offers facilities for research leading to Ph.D. degrees in various branches of Engineering, Science and Management. The details of B. Tech, M. Tech./M. Plan. and MSc programmes are as given below:

Under graduate Level - B. Tech. Programmes (4 years - 8 semesters)

- Biotechnology (BT)
- Chemical Engineering (CH)
- Civil Engineering (CE)
- Computer Science and Engineering (CS)
- Electrical & Electronics Engineering (EE)
- Electronics & Communication Engineering (EC)
- Engineering Physics (EP)
- Materials Science and Engineering (MT)
- Mechanical Engineering (ME)
- Production Engineering (PE)

Under graduate Level - B. Arch. Programme (5 years - 10 semesters)

Dual Degree – B.Tech.- M.Tech. Programme (5 years - 10 semesters)

- Mathematics and Computing (MC)

Integrated Teacher Education Programme (ITEP) – B.Sc. – B. Ed. (4 Years- 8 semesters)

M.TECH./M.PLAN. Programmes (2 years - 4 semesters)

The details of M. Tech. and M. Plan programs offered by various departments at NITC are given below.

Department	Dept. code	Specialization of the M. Tech. / M. Plan. programmes	Programme Code
Architecture & Planning	AP	Urban Planning	AR61
Bioscience and Engineering	BT	Bioengineering	BT61
Civil Engineering	CE	Structural Engineering	CE61
		Traffic & Transportation Planning	CE62
		Offshore Structures	CE63
		Geotechnical Engineering	CE67
		Water Resources Engineering	CE65
		Environmental Engineering	CE66
Chemical Engineering	CH	Chemical Engineering	CH61
Computer Science & Engineering	CS	Computer Science & Engineering	CS61
		Computer Science & Engineering (Information Security)	CS62
		Computer Science and Engineering (Artificial Intelligence & Data Analytics)	CS63
Electrical Engineering	EE	Instrumentation & Control Systems	EE61
		Power Systems	EE62
		Power Electronics	EE63
		Industrial Power and Automation	EE64
		High Voltage & Renewable Energy Engineering	EE65
		Electric Vehicle Engineering	EE66
Electronics & Communication Engineering	EC	Electronics Design & Technology	EC61
		Microelectronics & VLSI Design	EC62
		Telecommunication	EC63
		Signal Processing	EC64
Mechanical Engineering	ME	Industrial Engineering & Management	ME61
		Thermal Sciences	ME62
		Digital Product Engineering and Manufacturing	ME63
		Sustainable Energy Engineering	ME64
		Advanced Materials and Manufacturing	ME65
		Machine Design	ME66
		Logistics and Supply Chain Management	ME67
		Operations Research and Data Analytics	ME68
Materials Science and Engineering	MT	Materials Science and Engineering	MT62

M.Sc. Programmes (2 years - 4 semesters)

Department	M. Sc. Programmes	Programme Code
Mathematics	Mathematics	MA62
Physics	Physics	PH62
Chemistry	Chemistry	CY62

MBA Programmes (2 years - 4 semesters)

Major Areas of Research and Consultancy

The major areas of research and consultancy of various departments are as follows:

ARCHITECTURE AND PLANNING

- Urban and Regional Planning
  - Transportation
  - Infrastructure
  - Housing
  - Environmental Planning
  - Planning Informatics
  - Disaster Management &Climate Change
  - Smart Cities planning
  - Energy & Sustainability studies
- Architecture
  - Urban Design
  - Landscape
  - Conservation
  - Architectural Theory
  - Architectural Visualization & Product Design
  - Pedagogy
  - Sustainable Architecture
- Landscape Planning and Design
  - Landscape Urbanism
  - Wetland Studies
  - Ecological Assessments
  - Human Ecology
  - Environmental History
  - Cultural Landscape
- Building Technology & Management
  - Building Services
  - Energy Modelling
  - Building Information &Modelling
  - Alternate Building Materials
  - Construction Management
  - Modern Methods of Construction
  - Change Management

- Structural Engineering
  - Masonry Structure,
  - Seismic Safety of Structures
  - Sustainable Strengthening Techniques,
  - Structural Dynamics &Earthquake Engineering,
  - Sustainable Concrete
  - Reinforced concrete structure
  - Bio concrete
  - Computational Mechanics

BIOSCIENCE AND ENGINEERING

- Biomaterials Design & Applications
- Tissue Engineering and Regenerative Medicine
- 3D bioprinting
- Stem Cell Technology
- Bio signals and Bioimaging
- Diagnostics and Therapeutics
- Biomedical Nanotechnology
- Microfluidics And Nanofluidics
- Drug Design & Development
- Molecular and Cell Bioengineering
- Biomedical Device Design
- Additive Manufacturing Technologies

CHEMICAL ENGINEERING

- Reaction and Bioprocess engineering
  - Bio-materials
  - Biofuels
  - Catalysts
  - Fermentation Technology
  - Bioreactors
- Energy and Electrochemical Engineering
  - Electrochemical systems
  - Fuel Cells
  - Phase Change Heat transfer
- Materials Science and Engineering
  - Carbon-based materials
  - Nano –composites
  - Polymers and polymer Composites
  - Soft Matter
- Process Control, Optimization and systems Engineering
  - Flow Assurance in Oil and Gas Pipelines
  - Process Intensification
  - Rheology
  - Optimization under uncertainty
  - Supply chain optimization
- Process Modelling, Simulation, CFD and Theoretical computation
  - Machine Learning

  - Molecular Simulations
  - Multiphase Flow Modelling
  - Non-Newtonian Fluid Dynamics
  - Thermodynamic Modelling
- Environmental Engineering
  - Carbon Capture and Storage
  - Desalination
  - Membrane Separation
  - Microfluidics
  - Wastewater Treatment
- Phase Change Heat Transfer
- Thermal Energy Storage System.
- Passive Vapor Generation Systems.
- Thermal Management

CHEMISTRY

- Bioinorganic Chemistry
- Bioinspired Catalysis
- Biomimetic Inorganic Chemistry
- Energetic Materials/ High Energy Materials
- Heterocyclic Chemistry
- Main Group Organometallic Materials and Supramolecular Chemistry
- Materials Chemistry & Technology (Polymers, Biomacromolecules, Blends, Composites, Membranes)
- Medicinal Chemistry
- Organic & Bio-organic Chemistry
- Organic Synthesis and Catalysis
- Porphyrins and Metalloporphyrins
- Soft Materials
- Theoretical and Computational Chemistry
- Thermoelectric Materials
- Waste Management

CIVIL ENGINEERING

- Structural Engineering
- Offshore Structures
- Traffic and Transportation Planning
- Geotechnical Engineering
- Water Resources Engineering
- Environmental Engineering
- Environmental Geotechnology
- Building Technology and Construction Management
- Town Planning
- Geomatics Engineering
- Applied Geology

COMPUTER SCIENCE & ENGINEERING

- Algorithms and complexity
- Artificial Intelligence/Machine Learning
- Bioinformatics
- Cloud Computing
- Compilers and Programming Languages
- Computer Architecture
- Database Management Systems
- Distributed Computing
- Image Processing
- Information Security
- Networks
- Operating Systems
- Software Engineering
- Artificial Intelligence/Machine Learning

ELECTRICAL ENGINEERING

- Instrumentation and Control Systems.
- Power and Energy Systems.
- Power Electronics & Machines.
- Industrial Power & Automation.
- Biomedical Signal Processing and Instrumentation.
- High Voltage Engineering
- Electric Vehicle Engineering
- Renewable Energy Engineering

ELECTRONICS & COMMUNICATION ENGINEERING

- Electronics Design and Technology
  - Embedded System Design
  - EMI/ EMC, Control System Design
  - Biomedical System Design
  - System Design for Signal Processing and Communication
  - Biomedical Imaging System Design
- Microelectronics and VLSI Design
  - Power Management in IC Design
  - Analog & Mixed-signal IC design
  - Semiconductor Device modelling
  - Micro fabrication Technology, Micro/Nano Electro Mechanical System MEMS/NEMS
  - VLSI architectures for Signal Processing and Communication
  - Photovoltaics Devices for Energy Harvesting
  - Fabrication and Modelling of Photovoltaics Devices
  - CMOS Image Sensors
  - Semiconductor Memory Devices
  - Photonic Integrated Circuits
- Telecommunication
  - Wireless Communications and Networks
  - OFDM/MIMO and Massive MIMO

- 5G & Beyond 5G Wireless Communications
- Cryptography and Secure Communication
- RF & Microwave Engineering
- Coding Theory and Applications
- Distributed Computing and Content Delivery
- Optical Communication and Optical Wireless Communication

- Signal Processing
  - Speech/ Audio / Image / Video Processing
  - Signal Theory
  - Compressed Sensing/ Sparse Signal Processing,
  - Multi-rate Signal Processing
  - Biomedical Signal Processing
  - Radar/Array Signal Processing
  - Machine Learning, Computer Vision
  - Deep Learning
  - Statistical Signal Processing and Bayesian Machine Learning
  - Reinforcement Learning
  - VLSI Architectures for Signal Processing & Deep Learning
  - Biomedical Imaging
  - AI for Biomedical Imaging and Signal Processing

HUMANITIES ARTS AND SOCIAL SCIENCES

- English Studies
- ELT
- Cultural Studies
- Indian Writing in English and Translations
- Postcolonial Studies
- Dalit Studies
- Food and Culture
- Gender Studies
- Early Childhood Education
- Childhood Studies
- Canadian Literature
- Comparative Literature
- Memory Studies and Trauma Narratives
- Literary Theories
- Theatre and Drama

MANAGEMENT STUDIES

- Finance and Accounting
- Marketing Management
- Consumer Psychology
- Human Resource Management and Organisational Behaviour
- Behavioural Science
- Operations Management Decision Sciences
- Data Analytics
- Information Systems

- Strategic Management
- Economics
- Health Care Management
- Public Policy and Governance
- Natural Resource Management
- Entrepreneurship
- Technology Management

MATERIALS SCIENCE AND ENGINEERING

- Solar Thermal Systems
- Solar Fuels
- Microscale/Nanoscale heat transfer
- Interferometric measurements
- Thermal Management of Devices (Electronics/Batteries)
- Emerging Solar Cell Technologies
- Perovskite Solar Cells
- Nanofluids
- Photo Catalysis/ Water Splitting
- Biomaterials
- Corrosion and Wear Resistant Coating
- Nano Composites for Energy
- Nanocomposites and Nanosensors
- Surface Modifications and Coating Techniques (Metals)
- Biodegradable Metals
- Lightweight metallic systems
- Electrospinning
- Nanocomposites
- Medical Materials (Metals and alloys)
- Affordable Healthcare
- Magnesium based Hydrogen storage
- Applied microscopy and spectroscopy
- Phase Change Materials
- Carbon materials for energy and devices
- Semiconductor Memories and devices
- Additive manufacturing materials
- Mechanical behaviour of materials
- Process-Microstructure-property correlations
- Multiscale numerical modelling
- Computational material science
- Microfluidics and Nanofluidics

MATHEMATICS

- Stochastic Modelling and Applied Statistics
- Numerical Analysis and Scientific Computing
- Mathematical Analysis
- Nonlinear Dynamics

- Operations Research
- Complex Analysis
- Fractional Calculus
- Differential Equations
- Number Theory
- Reliability of systems
- Combinatorics & Graph Theory
- Special Function and Function Spaces
- Wave Structure Interactions
- Functional Analysis
- Lie Algebra/Superalgebra
- Wavelets Theory
- Commutative Algebra
- Topology
- Fractal Geometry
- Spectral Graph Theory
- Operator Theory
- Time Series Analysis
- Computational Finance
- Actuarial Science
- Differential Geometry
- Category theory
- Banach Algebras
- Game Theory
- Optimization
- Algebraic Topology
- Theory of Rings and Modules
- Topological Data Analysis
- Set Generalizations
- Fuzzy Logic
- Fuzzy Graph Theory
- Matrix Theory
- Numerics of Singularly Perturbed Differential Equations
- Linear algebra
- Spectral Graph Theory
- Partition Theory
- Modular Forms
- Variational Analysis
- Nonlinear Elliptic and Subelliptic PDEs
- Algebraic Function Theory
- Geometric Functions Theory
- Several Complex Variable
- Numerical Analysis of Differential Equations

MECHANICAL ENGINEERING

- Industrial Engineering and Management
  - Manufacturing Planning & Control
  - Quality & Maintenance Engineering
  - Human Factors & Productivity Engineering
  - Operations & Lean Production Management
  - Industrial Facility Design & Optimization
  - Project Management
  - Business Strategy & Competitive Advantage
  - Consumer Behaviour
  - Strategic Marketing & Brand Management
  - Services Management
- Machine Design
  - Computational Mechanics
  - Robotics
  - Tribology
  - Machine Dynamics and Vibrations
  - Nano- and Micro-mechanics
  - Product Design
  - Biomechanics
  - Nonlinear dynamics
  - Nonlinear Solid Mechanics
  - Fatigue and Fracture
- Materials and Manufacturing
  - Macro and Micro Machining
  - Modern Machining
  - Metrology
  - CAD/CAM
  - Composite Materials
  - Ferrous and Non-Ferrous Metallurgy
  - Materials for Electronics Application
  - Additive Manufacturing/3D printing
  - Digital Manufacturing and Design
  - Mechatronics and industrial automation
  - Materials for Sustainable Development
  - Structure-Property Correlation of materials
  - Advanced structural and functional ceramics
  - Biomaterials and surface engineering
- Thermal and Energy Engineering
  - Renewal Energy Technologies
  - Energy Conservation
  - Fuel Cells and Hydrogen Technology
  - Computational Fluid Dynamics
  - Heat Pipes
  - Cryogenics
  - Jets and Flow Acoustics
  - Combustion and Fire Safety
  - Fluid-Structure Interactions
  - Multi-phase Flows

- High Performance Computing
- Lattice Boltzmann Modeling
- High Speed Flows
- Turbo-machinery
- Internal Combustion Engines
- Convection and Radiation Heat Transfer
- Non-Newtonian flows
- Heating and Ventilation Systems
- Thermal Management
- Microfluidics

- Logistics and Supply Chain Management
  - Supply Chain Design & Optimization
  - Inventory Management
  - Transportation & Distribution
  - Procurement & Sourcing
  - Warehouse Management
  - Demand Forecasting
  - Sustainable & Green Supply Chains
  - Digital Supply Chains
  - Retail Supply Chain Management
  - Port Management
- Operations Research and Data Analytics
  - Mathematical Optimization
  - Stochastic Models
  - Simulation Modelling
  - Decision Modelling & Analysis
  - Machine Learning & AI
  - Big Data Analytics
  - Heuristics & Metaheuristics
  - Network Optimization
  - Blockchain Management
  - Game Theory

PHYSICS

- Organic Solar Cell
- Nanomaterials for Energy & Environmental Applications
- Organic & Hybrid Electronics & Photonics
- Photonic devices based on 2D materials, Paper-based retinomorphic photodetctors
- Nonlinear Optics and Nano Photonics
- Statistical mechanics of phase transitions – Soft condensed matter Systems
- Computational Modeling of Materials
- Climate, Atmospheric and Environmental Monitoring using principle of Optics
- Experimental Condensed Matter Physics
- Surface and Interface Science
- Diamond and Related Materials

- Oxide Thin films and Heterostructures
- Microfluidics and optofluidics
- Gravity and Black holes, Constrained dynamics
- Theoretical High Energy physics - Quantum Field Theory, Lattice gauge theory, Quantum Chromodynamics
- Solar Astrophysics
- Photonic Crystals, Metamaterials, and Terahertz Devices
- Soft matter and statistical physics
- Statistical Physics and Thermodynamics
- Lasers, Imaging through Disordered media, Photonic crystals, and optical waveguides
- Nonlinear optics and Fluorescence microscopy
- Microfluidics and Optofluidics
- Soft Matter
- Astrophysics, 21-cm Cosmology, Radio Astronomy, Cosmological Simulations
- Experimental Nuclear Physics
- Gravitational Wave Physics
- Gas Sensors, Chemical Sensors, Energy Storage Devices, Interface Electronics

Part- II ADMISSIONS TO FULL TIME M.TECH./ M. PLAN. / M. Sc. PROGRAMMES

A. Admissions to Full Time M.TECH./ M. PLAN. Programmes (Self-sponsored & Sponsored)

1. Introduction

Applications are invited for admission to the full-time M. Tech. and M. Plan. Programmes starting in July-August 2026 under the self-sponsored & sponsored category for the academic year 2026-2027. The candidates who fulfil the prescribed minimum eligibility criteria as given in the following section may apply for the same. Students admitted under the full-time self-sponsored & sponsored (industry/academia) categories will not receive any financial aid/stipend or scholarship. Candidates sponsored from Industries, R&D Organizations, Central/State Government institutions, Defence organizations, other reputed private organizations/institutions will be considered in sponsored (industry/academia) category. In the case of teachers sponsored by Engineering Colleges and Polytechnics, the sponsoring institute should be recognized by All India Council for Technical Education (AICTE)/Council of Architecture (CoA). The seat allocation for each PG programme under self-sponsored & sponsored (industry/academia) categories are given in Table 1 below. The self-sponsored and sponsored (industry/academia) candidates are eligible to appear for campus placement interview coordinated by the Centre for Career Development in the institute.

Table 1: M.Tech. and M.Plan. Programmes with Seat Intake

Programme Code	M. Tech. / M. Plan. programme	No. of seats	
		Self-sponsored	Industry Sponsored
AR61	Urban Planning	10	5
BT61	Bioengineering	15	0
CE61	Structural Engineering	5	5
CE62	Traffic & Transportation Planning	5	5
CE63	Offshore Structures	5	5
CE67	Geotechnical Engineering	5	0
CE65	Water Resources Engineering	5	5
CE66	Environmental Engineering	5	5
CH61	Chemical Engineering	5	5
CS61	Computer Science & Engineering	5	5
CS62	Computer Science & Engineering (Information Security)	5	5
CS63	Computer Science and Engineering (Artificial Intelligence & Data Analytics)	20	5
EE61	Instrumentation & Control Systems	5	5
EE62	Power Systems	5	5
EE63	Power Electronics	5	5
EE64	Industrial Power and Automation	5	5
EE65	High Voltage & Renewable Energy Engineering	5	5
EE66	Electric Vehicle Engineering	10	10
EC61	Electronics Design & Technology	5	5
EC62	Microelectronics & VLSI Design	10	5
EC63	Telecommunication	5	5
EC64	Signal Processing (*Eligible for Vehant Fellowship)	5*	5
ME61	Industrial Engineering & Management	5	5
ME62	Thermal Sciences	5	5
ME63	Digital Product Engineering and Manufacturing	5	5
ME64	Sustainable Energy Engineering	5	5
ME65	Advanced Materials and Manufacturing	5	5
ME66	Machine Design	5	5
ME67	Logistics and Supply Chain Management	5	5
ME68	Operations Research and Data Analytics	15	5
MT62	Materials Science and Engineering	10	5

2. Eligibility for Admission to M.TECH./M. PLAN. Programmes (Self-sponsored & Sponsored)

Candidates for admission to **M. Tech.** degree programmes (except M.Tech in Computer Science and Engineering- Artificial Intelligence & Data Analytics and M.Tech. in Mechanical Engineering – Operations Research and Data Analytics) should have passed B.E./ B. Tech. in an appropriate branch from an approved Institute/University with minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6/10) for SC/ST/PwD categories.

Candidates for admission to M. Tech. degree programme in Computer Science and Engineering (Artificial Intelligence & Data Analytics) should have passed Bachelors degree of four years duration in any branch of Engineering/Technology/Science OR Master's degree of two/three years duration in any stream of Science / Mathematics / Statistics / Computer Science / Computer Applications, from a recognized university/institute, with minimum 60% marks (or CGPA of 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6/10) for SC/ST/PwD categories.

Candidates for admission to M. Tech. degree programme in Mechanical Engineering (Operations Research and Data Analytics) under the Self-sponsored & Sponsored category should have passed Bachelor's degree of four years duration in any branch of Engineering/Technology/Mathematics/Statistics/Management OR Master's degree of two/three years duration in Mathematics / Statistics / Computer Science / Computer Applications/Management, from a recognized university/institute, with minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6/10) for SC/ST/PwD categories. Final semester undergraduate/postgraduate students can also apply under these categories provided their final semester marks are made available by 30th September 2026. Such candidates will be considered for provisional admission. Selection of candidates for M. Tech. Programme in Mechanical Engineering (Operations Research and Data Analytics) will be based on a test and/or interview conducted by the Department of Mechanical Engineering, NIT Calicut.

Candidates for admission to **M. Plan.** degree programme should have passed B. Arch./B.Plan./B.Des./B.E/B.Tech. (Civil engineering or Architectural Engineering), / or M.A/MSc in Geography, Sociology or Economics or any other relevant degree prescribed by Institute of Town Planners India from a recognized Institute/University with minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6.0/10) for SC/ST/PwD categories.

Candidates applying for **M. Tech. admission with MCA** should have minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6/10) for SC/ST/PwD categories, in both MCA and undergraduate degree.

Candidates who secured their **B.E./B. Tech. degree under the lateral entry scheme** should have passed the three-year diploma in Engineering with minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6.0/10) for SC/ST/PwD categories. Holders of AMIE (approved by AICTE) / other nationally approved programmes equivalent to B. Tech. / B.E., in the appropriate branch of study, are also eligible to apply for the self-sponsored M. Tech./M. Plan. programmes. Conversion from CGPA to percentage or vice versa given by individual

Institute/University will not be considered/ allowed. If CGPA is on a different scale than the 10-point scale, then it would be linearly mapped to a 10-point scale.
Reservation rules are not applicable to M.Tech./M.Plan**.** admissions under the self-sponsored & sponsored categories. **In addition to the above qualifications, a minimum of 2 years of industrial/ research/ teaching experience in the relevant organizations is also mandatory at the time of submitting application for candidates seeking admissions under the sponsored category. They need to upload a sponsorship certificate from the employer (in the format specified by NITC available in NITC website) along with the applications.**

Final semester under graduate students can also apply under the self-sponsored category provided their final semester marks are made available by 30th September 2026. Such candidates may be considered for provisional admission. Any candidate admitted provisionally will have to discontinue the course, if the candidate fails to produce the provisional degree certificate and mark lists (satisfying the minimum requirements of marks / CGPA) on or before 30th September 2026. Such candidates will not be eligible for any refund of fees paid by him/her.

Selection of candidates for M. Tech./M. Plan Programmes under the Self-Sponsored Category will be based on the performance of the candidate in the test/ interview conducted by the respective Department.

The details of M. Tech./M. Plan programme codes are given below. The candidates are required to have B.E. /B. Tech. /B. Arch. B. Plan./B. Des. MA/MSc in the disciplines mentioned against the corresponding programme code.

M. Tech./ M. Plan. programme code	Required B.E./B.Tech/B.Arch./ B. Plan./B. Des. / MA/MSc degree/ branch/ discipline
AR61	B. Arch. / B. Plan. /B.Des./B.E/ B.Tech. (Civil engineering or Architectural Engineering), or M.A/MSc in Geography, Sociology or Economics or any other relevant degree prescribed by Institute of Town Planners India
BT61	Bachelor's degree of four years duration - Biotechnology, Biomedical Engineering, Bioinformatics, Pharmacy, Mechanical, Electrical engineering, Electronics & Communication Engineering, Computer Science/ Bachelor's degree in Agri/Veterinary/Fisheries/Forestry/Master's degree in any stream of Life sciences, Physics, Chemistry/Five years of program in Medicine and Surgery.
CH61	Chemical Engineering/ Chemical Technology/ Petro-Chemical Engineering/ Petroleum Engineering/Petrochemical Technology/Biotechnology/Polymer Technology/ Plastic Technology/ Chemical&Electrochemical Engineering/Pharmaceutical Technology /Food Technology/Ceramic Technology/ Rubber and Plastic Technology/ Rubber Technology

CE61/CE62/CE63/CE65/ CE67	Civil Engineering
CE66	Civil Engineering/ Environmental Engineering/ Chemical Engineering/ Mechanical Engineering/Biotechnology
CS61 / CS62	Computer Science & Engineering/ Information Technology/ MCA
CS63	Bachelor's degree of four years duration in any branch of Engineering/Technology OR Master's degree of two/three years duration in any stream of Science / Mathematics / Statistics / Computer Science / Computer Applications, from a recognized university/institute
EE61	Four year B.Tech Degree in Electrical Engineering/Electrical & Electronics Engineering/Instrumentation & Control System/ Applied Electronics & Instrumentation/ Instrumentation
EE62/EE63/EE65	Four year B.Tech Degree in Electrical Engineering/Electrical &Electronics Engineering
EE64	Four year B.Tech Degree in Electrical Engineering/Electrical & Electronics Engineering/Instrumentation & Control Systems/Applied Electronics & Instrumentation Engg. /Electronics & Instrumentation/Instrumentation
EE66	Four year B.Tech Degree in Electrical Engineering/Electrical & Electronics Engineering or equivalent
EC61/EC62/EC63/EC64	Electronics Engg./Electronics & Communication /Electrical and Electronics/ Electrical Engineering/Applied Electronics & Instrumentation or allied disciplines
ME61	Bachelor's degree of four years duration in Mechanical Engineering/Aerospace Engineering/ Agricultural Engineering/ Automobile Engineering/ Material Science & Engineering/ Manufacturing Engineering/ Mechatronics/ Metallurgical Engineering/ Industrial Metallurgy/ Production Engineering/ Production & Industrial Engineering/ Production & Management/Textile Engineering & Fiber Science / Industrial Engineering OR Master's degree of two/three years duration in Mathematics / Statistics / Computer Science / Computer Applications/Management
ME62	UG Degree in Mechanical Engineering/ Aerospace Engineering/Aeronautical Engineering/Automobile Engineering/ Energy Engineering/Manufacturing Engineering/Nuclear Engineering/ Production Engineering

ME63	UG Degree in Mechanical Engineering/ Automobile Engineering/Manufacturing Engineering/Material Science & Engg/ Mechatronics/ Metallurgical Engineering./ Production Engineering/Production & Industrial Engg./Production & Management
ME64	UG Degree in Mechanical Engineering/ Chemical Engineering/Electrical Engineering /Aeronautical Engineering/Aerospace Engineering/ Automobile Engineering/ Energy Engineering/ Nuclear Engineering/Renewable Energy or allied disciplines
ME65	UG Degree in Mechanical Engineering/ Automobile Engineering/Material Science & Engg./ Metallurgical and Materials Engineering/ Mechatronics/ Engineering Physics/ Manufacturing Engineering/ Mechatronics/Metallurgical Engineering/ Industrial Metallurgy/Nano Technology/ Production Engg/ Production & Industrial Engg./Production &Management
ME66	UG Degree in Mechanical Engineering/ Aerospace Engineering/ Aeronautical Engineering/ AutomobileEngineering/Material Science & Engg./ Manufacturing Engineering/ Mechatronics/ Metallurgical Engineering/ Industrial Metallurgy/ Production Engg/Production & Industrial Engg./Production & Management
ME67	Bachelor's degree of four years duration in any branch of Engineering/Technology/Mathematics/Statistics/Management OR Master's degree of two/three years duration in Mathematics / Statistics / Computer Science / Computer Applications/Management
ME68	Bachelor's degree of four years duration in any branch of Engineering/Technology/Mathematics/Statistics/Management OR Master's degree of two/three years duration in Mathematics / Statistics / Computer Science / Computer Applications/Management
MT62	Bachelor's degree of four years duration in any branch of Engineering/Technology OR Master's degree of two/three years duration in any stream of Science from a recognized university/institute

3. The Highlights of M.TECH./M.PLAN. Programmes

The four-semester (two-year) M. Tech./M. Plan. Programmes are based on the credit system. The programmes comprise several core and elective courses and project work. The highlights of M. Tech./M. Plan. Programmes offered by various departments are given in the following section.

DEPARTMENT OF ARCHITECTURE AND PLANNING

M. Plan. in Urban Planning (AR61)

The Post Graduate Degree (2 Year M. Plan.) Program in Urban Planning aims to produce generalist planning professionals of international quality who can adapt to any challenging

planning situation with superior capability to use geo-informatics which includes GIS, remote sensing, related models and quantitative methods in urban, regional and environmental planning. The program envisages inculcating scientific diagnostic and urban management abilities in professional planners to understand planning issues holistically and equip them with predictive ability to analyze the outcome of economic, social, environment and energy impacts using simulation of future scenarios.

DEPARTMENT OF BIOSCIENCE AND ENGINEERING

M. Tech in Bioengineering (BT61)

M. Tech in Bioengineering is a specialized graduate program that focuses on the intersection of biology, engineering, and medicine. It combines principles and techniques from various disciplines to develop innovative solutions for biological and healthcare challenges. This program equips students with the necessary skills and knowledge to apply engineering principles and tools in the field of biology and medicine. The curriculum of an M.Tech in Bioengineering program typically consists of outstanding academic tutoring by well-renowned faculties, regular guest lectures by bioengineering technologists, consistent workshops/seminars from industrial partners, state of art laboratory experiments, practical assignments and mini projects/internships in real-time industry scenarios, and many more. In addition, this program offers a dual degree option where the students can opt for M.S Biomedical Engineering from University of North Texas (UNT), USA through the (1+1) twining program. This academic collaboration between NITC and UNT provides excellent opportunities for obtaining overseas PG degree by studying partly in India and in the USA with the benefit of obtaining dual-degree, M.Tech Bioengineering from NITC, India and M.S Biomedical Engineering from UNT, USA.

DEPARTMENT OF CHEMICAL ENGINEERING

M. Tech. Programme in Chemical Engineering (CH61)

The M.Tech. Programme in Chemical Engineering is designed to provide a strong base on Chemical reactor theory, Transport phenomena, Thermodynamics, Mathematical methods in chemical engineering, Process simulation, Optimization and control, Separation processes, Polymer engineering, as well as in frontier areas of Energy and environment, Nanoscience, Molecular simulations, and Biotechnology. The research component of the programme is meant to develop capabilities to confidently undertake an independent analysis of problems of industrial relevance as well as of fundamental significance. The M.Tech. programme equips students with skills which enable them to contribute to the development of Chemical Industry in India.

DEPARTMENT OF CIVIL ENGINEERING

M. Tech. Programme in Structural Engineering (CE61)

The M.Tech. Programme in Structural Engineering was started in the year 1971 with an intention of providing a comprehensive education and training to civil engineers using a holistic approach to structural systems engineering by emphasising and building on the commonality of engineering structures at the levels of materials, mechanics, analysis and design. The programme provides a thorough training in the design principles and structural action as related to components and systems over a broad range of application areas. It also provides a thorough

training in the methods of analysis, including problem formulation and the use of current mathematical and computational tools. The programme covers specialised topics in Theory of Elasticity, Earthquake Resistance Structures, Structural Dynamics, Structural Optimisation, Finite Element Analysis, Advanced Metal Structures, etc.

M. Tech. Programme in Traffic and Transportation Planning (CE62)

The M. Tech. Programme in Traffic and Transportation Planning was started in the year 1985. The programme aims to impart futuristic and need-based technical education, and to promote reengineering in the field of Transportation Engineering for working out cost- effective solutions in liaison with local authorities and to establish social relevance of research and developmental activities. Under the PMGSY (Pradhan Mantri Gram SadakYojana), and National Highway Development Programme (NHDP-Golden Quadrilateral, North-South and East-West corridors), etc. the importance given to the highway development has increased in leaps and bounds. Similarly, considerable attention is being given to the development of railways, waterways and airways. The present programme in Traffic and Transportation Planning has three broad areas of specialization namely i) Traffic Engineering ii) Transportation Planning and iii) Pavement Technology.

M. Tech. Programme in Offshore Structures (CE63)

The goal of the Programme is to prepare graduate students in civil engineering for the offshore profession having application to the challenging conditions encountered in the ocean environment. The oil industry with its crucial role in deciding the economy of the nation is shifting its exploitation strategy from land-based to ocean-based systems the world over. This shift in emphasis has resulted in turn in a growing need for structural engineers with expertise in design of offshore platforms and other deepwater structures, marine pipelines, towed bodies and cable systems, etc.The various major courses offered in the programme are Dynamics, Design of Offshore Structures, Marine Foundations, Offshore Structural Systems-Modelling and Behaviour, Theory of Elasticity, Structural Wave Hydrodynamics, Statistics, Probability & Reliability Methods in Civil Engineering.

M. Tech. Programme in Geotechnical Engineering (CE67)

The M.Tech. Program in Geotechnical Engineering at the National Institute of Technology Calicut is structured to provide graduates with a comprehensive foundation for both professional practice and scholarly pursuit in the field. Our curriculum is carefully structured to offer a well-rounded education encompassing theoretical knowledge, analytical skills, practical applications, and experimental methodologies essential for effective geotechnical engineering endeavours. Through a meticulously curated selection of courses such as Advanced Soil Mechanics and Foundation Engineering, Site Investigations, Geotechnical Earthquake Engineering, Rock Mechanics, Tunnelling and Underground Structures, Finite Element Modelling, and Slope & Retaining Wall Design, students gain specialized expertise in key areas of geotechnical engineering.

This course also focuses on Geophysical and Geotechnical ground investigations, including field and laboratory testing, as well as numerical modelling to simulate real field applications. It trains students in the utility of advanced equipment and software to conduct accurate site assessments

and predictive modelling, optimizing project outcomes. This holistic approach ensures that graduates are equipped with the requisite knowledge and skills to navigate diverse challenges in geotechnical projects worldwide, positioning them as adept professionals capable of making significant contributions to the field.

M. Tech. Programme in Water Resources Engineering (CE65)

The M.Tech. Programme in Water Resources Engineering was started by the Department of Civil Engineering in the year 2015. A scientific and systematic approach is required to efficiently manage any water resources system which is characterized by either scarcity or excess issues, and quality issues. The success of any water resources project depends on the sound understanding of the interactions of various components of the system, effectiveness in collection and interpretation of relevant data, and use of modern computational techniques in the solution of the problem. This PG Programme intends to prepare graduates in Civil Engineering to attain these abilities by introducing them to topics like Advanced Fluid Mechanics, Surface and Subsurface Hydrology, Water Resources Systems Analysis and Design, Remote Sensing and its Applications in Water Resources Engineering and Computational Hydraulics and Hydrology. In addition to these core courses, six more elective courses from the related fields of Water Resources Engineering can be credited by the students depending on their aptitude and interest. A project work in the second year of the Programme provides the student with an opportunity to apply the principles and methods got familiarized in the first year to analyze and design some aspects of realistic water resources case studies.

M. Tech. Programme in Environmental Engineering (CE66)

The M.Tech. Programme in Environmental Engineering shall equip the graduants with the ability to study water, air and soil pollution problems, and impart necessary skills to develop technical solutions to solve, attenuate or control these problems in a manner that meets legislative, economic, social and political requirements. The students shall be trained in the accepted engineering practices and protocols for planning, design and operation of water and wastewater treatment facilities, modelling and analysis of water and air quality, design of soil remediation systems, design of air pollution control systems, and the management of solid waste, including its collection, transport, processing, recovery and disposal. Students shall also be trained in undertaking high quality research, professional report preparation and scientific communication.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

M.Tech. Programme in Computer Science and Engineering (CS61)

The two-year post graduate programme in Computer Science is intended to train the students in advanced areas in computer science and specialized topics in emerging areas in computing. The programme aims to impart skills for the in-depth analysis of computing problems, computer systems design and related subjects. Courses offered in the theoretical/systems/applied domain of Computer Science include: Topics in Algorithms, Topics in Programming Languages, Operating Systems Design, Trends in Middleware Technologies, Bioinformatics and Machine Learning that can enable students to take up higher studies/industry jobs. The project work in the second year is intended to orient the student towards deeper study and research in her/his area of interest.

M. Tech. Programme in Computer Science and Engineering [Information Security] (CS62)

Information security relates to the protection of IT assets against the risks of loss, misuse, disclosure or damage. Information security management comprises of the controls that sensibly manage these risks. By proactively managing information security, we can reduce the likelihood and/or the impact on our information systems from a wide range of threats. The M.Tech. Programme in Computer Science and Engineering (Information Security) is envisaged to train graduates in Computer Science and Engg. / IT/ MCA with the necessary skills to design and develop policies, protocols and techniques to secure information systems.

M. Tech. in Computer Science and Engineering [Artificial Intelligence & Data Analytics] (CS63)

With the emergence of Artificial Intelligence (AI) back in the limelight, coupled with the availability of huge chunks of data in diverse fields, life is becoming more and more oriented towards Machine Learning (ML) and Data Science (DS). Availability of unprecedented processing power, storage capacity and access to enormous data opens up boundless possibilities. The 'fourth industrial revolution', characterized by the fusion of technologies that is blurring the boundaries between physical, digital and biological fields, calls for intelligent solutions in all spheres of life. In the backdrop of such a scenario, when the world is "drowning in data, but starving for knowledge", a harmonious blend of AI and Data Analytics (DA) tends to offer promising computational solutions for problems in diverse fields of activities such as life science, education, health and medical science, climate and environment, web and social media, finance, and agriculture. AI and ML techniques facilitate data analysis through automated analytical model building, which is based on the idea that machines should be able to learn and adapt through experience. With the ever-growing investments in the field of AI, and the emergence of Big Data technologies, there will be high demand for 'AI and Data Analytics' engineers in the coming years. Various research institutes are also in need of this manpower for their flagship research works. This M.Tech. programme in Computer Science and Engineering (Artificial Intelligence & Data Analytics) is offered for graduates from any branch of Engineering and post-graduates from any field of Science, having a special interest in CSE in general and AI & Data Science in particular. In this way, this programme will be a unique learning experience for the students coming from multidisciplinary fields of Engineering, Science and Technology, which is deemed as the need of the hour. The curriculum, designed in consultation with experts from both the industry and academia, provides a balanced coverage of the theoretical foundations of the subject and places heavy emphasis on the engineering practice that suits the industrial requirements.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

M. Tech. Programme in Electronic Design and Technology (EC61)

This program aims to educate / train engineers as creative designers of electronic products and systems. It is designed with the belief that any engineer concerned with the development of new electronic product needs to integrate the functional design, industrial design, equipment packaging and manufacturing. The electronics industries need design engineers, who can identify customer requirements and implement the system in hardware and software within very challenging constraints, such as performance, power consumption, real-time demands, reliability, and size. Backing India's vision to emerge as a global hub for electronics system design

and manufacturing, the curriculum and syllabus of this program are upgraded to churn out highly skilled industry ready graduates as well as to craft entrepreneurs with innovative minds. Thus, the program graduates will gain knowledge and skills in specialized areas by doing the core courses such as Design of Digital Systems, Embedded System Design, Applied Mathematics for Electronics Design, Design of Cyber Physical Systems, Electromagnetic Compatibility and Electronics Product Design. All these courses are integrated with laboratory experiments and projects ensuring hands-on experience with the modern hardware and software tools. Augmenting the skills acquired with the core courses, the students are offered with a variety of elective courses such as Data Structures and Algorithms, Digital Integrated Circuit Design, Analog Integrated Circuit Design, Advanced Semiconductor Device Modeling, VLSI Design Automation, Digital VLSI Testing, Verification of VLSI Systems, Reconfigurable System-on-Chip, High Speed Digital Design, Architectural Design of Digital Integrated Circuits, Low Power VLSI and courses related to ML/AI. Beginning in their second semester of study for their master's thesis, students work on projects based on their area of interest such as electronic product design, ASIC/FPGA implementation of computer arithmetic, architecture for signal and image processing algorithms, efficient inference of neural network models, semiconductor device modelling, etc., Students are encouraged to do part of their project work in Industry, which can further enhance their job readiness upon program completion. NBA has accredited this program multiple times which portrays the highest quality. The students of this program are regularly recruited on-campus by top notch chip design companies and electronic system design companies.

M. Tech. Programme in Microelectronics and VLSI Design (EC62)

The programme is focused at training students in design, simulation, modelling of electronic components and systems. The programme cover the basics of all aspects of Microelectronics, Analog & digital IC design and physical design. A significant component of all courses are devoted for laboratory works where the students carry out pre silicon design and testing of analog and digital circuits using industry standard EDA tools besides modelling modern semiconductor devices. The programme has elective courses in the field of advanced semiconductor devices, testing and verification, MEMS and sensors, data converters, high frequency analog and digital design, and in allied areas of Electronic Design and Technology, Telecommunication and Signal Processing. At the end of this two year M.Tech programme, the fundamental knowledge and the expertise in modern Microelectronics and VLSI tools will equip the students undergoing this programme to take up challenges in industry in wide variety of areas in the field of Microelectronics and VLSI Design.

M. Tech. Programme in Telecommunication (EC63)

The M.Tech. program in Telecommunication offered by the Department of ECE is a specialized program designed to cater to the needs of Industry in diverse domains of wireless technologies, communication networks and statistical signal processing with a special emphasis on current and next generation wireless systems and standards. The program also has a rich offering of electives enabling students to develop a strong skill set in programming, and in adjacent areas like design of digital systems and Artificial Intelligence.

Specifically, the program focuses on algorithm development for all physical layer signal processing required for communication transmitter and receiver design with a sound footing on

mathematics, MAC layer and Network layer design including queuing models, protocol design and analysis with a special focus on application layer constraints. Most courses have a substantial laboratory component where the students get hands-on experience in programming using Python, C/C++ along with software defined radio systems etc. Apart from the core courses related to communication, electives like "Data Structures & Algorithms", HDL-related courses like "Design of Digital Systems", and courses related to Artificial intelligence are offered and are often taken by students to broaden their skillset.

With the strong footing on both the theoretical foundations and application level concepts gained through coursework, the students engage in project work focusing on research in cutting edge areas of next generation wireless system design starting from their second semester for the Master's thesis work. The project work along with elective courses allow students to specialize in a wide range of areas such as Wireless Communications and Networks, 5G & Beyond 5G Wireless Communications, RF & Microwave Engineering, Coding Theory and Applications Distributed Computing and Content Delivery, Optical Communication and Optical Wireless Communication, and Cryptography and Secure Communication.

Students also have the opportunity to carry out part of their project work in Industry, further improving their industry-readiness at the end of the program. At the end of two-year M.Tech. program in Telecommunication, students gain adequate fundamental knowledge, application level design orientation, and algorithm development and analysis skills, with sound footing on programming and system level VLSI design skill sets, which makes them industry ready.

The program, which started in 2008, is supported by a strong team of faculty, significant investments in classroom and lab facilities (e.g., Telecom lab, Advanced Wireless Communication & Signal Processing lab and 5G lab), and institutional facilities. This was also reflected in a maximum duration of accreditation (six years) accorded by the NBA to the program in 2023, which ensures that all the students completing this program till 2029 will comply with the standards prescribed by Washington Accord.

M. Tech. Programme in Signal Processing (EC64)

The M. Tech. program in Signal Processing is focused on creative design and development of multidisciplinary signal processing systems. The current curriculum is a blend of classical signal processing with modern trends in signal processing such as deep learning and artificial intelligence. The core courses offer strong theoretical foundations and practical skills in Linear Algebra, Random Process, Digital Signal Processing, Pattern Recognition and Machine Learning and Statistical Signal Processing. Two baskets of electives, one in advanced signal processing and another in Machine Learning and Artificial Intelligence enables students to specialize according to their interest and industry demands. In addition, flexibility is provided to credit multidisciplinary elective such as Data Analytics, VLSI Systems, Data Structures, Embedded Systems, and Software Engineering. A year length research project provides students exposure to cutting edge areas in Computer Vision, Healthcare AI, Reinforcement Learning, Medical Signal and Image Processing, Compressive Sensing, and DSP System Design, with coding skills in Python, OpenCV, Tensorflow, PyTorch, MATLAB, Simulink, Verilog, and C/C++. Graduates are, placed in industry roles such as computer vision engineers, machine learning scientists in leading MNCs, research scientist in leading PSUs, and, pursuing Ph.D. in India and abroad.

Vehant Fellowship for M. Tech. Signal Processing:

Vehant Technologies Pvt. Ltd to offer fellowships for self-sponsored M.Tech students in Signal Processing. Vehant Technologies Pvt. Ltd works broadly in the field of R&D and product development using Artificial Intelligence (AI)/Machine Learning (ML) for Physical security, Surveillance, Traffic monitoring and Enterprise analytics solutions. The fellowship is worth approximately 10 lakhs for a period of 2 years and offers a guaranteed one-year industry internship. The industry internship will be guided by researchers from Vehant Technologies Pvt. Ltd and faculties from Department of ECE, NIT Calicut. Among other benefits, the fellowship offers a stipend during course work and internship - the fellowship during internship would be as per industry standards. Fellows may be offered placement at Vehant Technologies Pvt. Ltd, based on performance. All students applying for selection to M. Tech. Signal Processing is eligible for this fellowship – no separate application is required for this fellowship. Selected candidates would be called for a fellowship interview after the test/interview at NIT Calicut.

DEPARTMENT OF ELECTRICAL ENGINEERING

M. Tech. Programme in Instrumentation and Control Systems (EE61)

Instrumentation is the heart of any industry and sophisticated process control and guidance techniques are essential in modern days. This course, which was the first master's Programme to be started in this institute, has been very useful in processing sufficient knowledge in control system and instrumentation to cater to the needs of industry and research organisations. The syllabus of this programme is structured to have the latest trends in Control and Instrumentation.

M. Tech. Programme in Power Systems (EE62)

This course is structured to give a strong base on power system generation, transmission and distribution, operation, analysis, dynamics and control together with the recent advances such as FACTS, power quality and deregulation and smart grid technologies. Adequate exposure is also given on software tools and techniques in the relevant areas. The course is designed so as to enable the students to work effectively both in industries and utilities.

M. Tech. Programme in Power Electronics (EE63)

This programme was introduced to meet the needs of the modern power industry which makes use of power converters and inverters. The emphasis is given for both theory and practical through design, fabrication and testing. The courses incorporate modern trends in switched mode power supplies, active power filters and the latest control techniques in drives.

M. Tech. Programme in Industrial Power and Automation (EE64)

Micro-processors/Micro-controller/DSP controlled motor drives, process control and SCADA systems, plant automation, cogeneration, power wheeling, power factor controllers etc. in industries make the necessity of integrating these devices and systems with electric power control. With the introduction of time of use and dynamic tariff schemes by the utilities, industries can effectively adapt load control techniques and energy conservation programmes. Computer controlled systems with integrated load control become essential for the modern industries. The M.Tech. programme in 'Industrial Power and Automation' is with this objective to provide sufficient theoretical and field experience on the above systems to the Electrical engineers.

M. Tech. Programme in High Voltage & Renewable Energy Engineering (EE65)

With the progress of technology, the transmission voltages have increased to ultra- high voltage levels. At these levels the insulators, the circuit breakers and all other equipments that are in operation will have to deal with strong electromagnetic fields that can affect the power quality as well as the proper functioning of the equipment. Thus it is essential that the electrical engineers need be equipped with the latest research and development issues in high voltage transmission and distribution technology and its analysis from the electromagnetic point of view. The curriculum is designed to include both theoretical and practical aspects of high voltage technology. Exposure is also given on experimental techniques for testing of insulators as well as on software tools and techniques in the relevant area. Emphasis is also given on the latest developments in the field of nano-dielectrics.

M. Tech. Programme in Electric Vehicle Engineering (EE66)

The Electric Vehicle Engineering programme has been designed to cater to the growing demand of skilled engineers in the EV industry. The program exposes students to meet the evolving needs of the automotive industry in its quest for integrating technological advances in hardware, power electronics, machine intelligence etc. The course covers power train drives and control, battery and storage technology, charging infrastructure and analysis, electric vehicle system engg and policy, sensors for electric vehicle and embedded systems-design in the core with a range of electives from all relevant areas of transportation engineering and management, vehicular dynamics, communication, BMS and intelligent transport system, for which there is high industrial demand. Industry experts will also share their experience during classes. Theory classes will be offered in hybrid mode while practical classes and examinations are off line at NIT Calicut campus.

DEPARTMENT OF MECHANICAL ENGINEERING

M. Tech. Programme in Industrial Engineering and Management (ME61)

NIT Calicut started a PG programme in Industrial Engineering in 1984. Later, this programme was restructured in 2003 to include management topics, and it was renamed Industrial Engineering and Management. This programme is tailored to train the students to meet the current needs of the operations function in the data science era. The programme integrates other business functions to develop a well-rounded Industrial Engineer who can effectively manage an organisation's resources. The mandatory core courses include Decision Modelling, Statistics for Management, Inventory and Supply Chain Management, Operations Planning and Control, Machine Learning and Artificial Intelligence, and Ergonomics and Work System Design. The curriculum also includes five elective courses, which students can choose from a large pool of industry-relevant courses. Several advanced electives are grouped into five stream-specific elective baskets, namely General Management, Digital Automation, Systems Engineering, Sustainability Management, and Engineering Management. The theory is enhanced through laboratory classes and seminars. Adequate exposure is also given on software tools and techniques in the relevant areas.

M. Tech. Programme in Thermal Sciences (ME62)

The M.Tech programme in Thermal Sciences is designed to equip engineers with the latest knowledge and skills aligned with the current trends in both research and industry. The curriculum provides a strong foundation in the theoretical aspects of thermodynamics, fluid flow, and heat transfer, with applications to classical and practical engineering problems. Core courses in this specialization include Mathematical Methods, Compressible and Incompressible Flows, Advanced Heat Transfer, and Analysis of Thermal Cycles. In addition, a wide range of elective courses is offered in emerging and specialized areas such as Advanced Computational Methods, Computational Fluid Dynamics (CFD), Cryogenics, Thermal Environment, Electric Vehicle (EV) Systems, Propulsion Systems, Combustion, Internal Combustion Engines, Multiphase Flow, Design of Heat Transfer Equipment etc. To bridge the gap between academia and industry, industrial lectures are regularly organized, providing students with opportunities to interact directly with industry professionals and gain insights into current research challenges. Furthermore, students undertake a dissertation focused on contemporary engineering problems, where they gain hands-on experience with advanced equipment and modern software tools.

M. Tech. Programme in Digital Product Engineering and Manufacturing (ME63)

The M.Tech in Digital Product Engineering and Manufacturing is a cutting-edge postgraduate programme designed to equip engineers with the advanced skills and knowledge needed to thrive in the era of Industry 4.0 and beyond. Spanning four semesters and 75 credits, this programme seamlessly blends foundational engineering principles with transformative digital technologies, offering rigorous coursework in Model Based Definition and Product Modelling, Geometrical Product Specification and Verification, Advanced Machining, Additive Manufacturing, AI and Smart Manufacturing, Robotics and Automation, and Finite Element Methods — ensuring graduates are proficient across the full spectrum of current engineering practices in product development and manufacturing. What sets this programme apart is its strong emphasis on real-world application and industry relevance, reflected through dedicated Industry Lectures, two state-of-the-art laboratories in Advanced Manufacturing Technology and Digital Product Engineering laboratory, and a substantial 35-credit project spanning three semesters, which may be undertaken as an industry internship, giving students invaluable hands-on experience in solving complex, real-world engineering challenges. Complemented by carefully curated programme and institute electives that allow students to tailor their learning journey, this programme produces industry-ready, digitally fluent manufacturing engineers capable of driving innovation in product design, smart production, and next-generation manufacturing enterprises.

M. Tech. Programme in Sustainable Energy Engineering (ME64)

The M.Tech. in Sustainable Energy Engineering is an interdisciplinary postgraduate program designed to address the global transition towards clean and efficient energy conversion and utilization. The program balances core engineering principles with emerging technologies, requiring students to engage with essential courses such as Fluid Flow and Heat Transfer in Energy Systems, Sustainable Energy Technologies, and Modern Energy Systems covering conversion, storage, and carbon capture. The curriculum emphasizes practical expertise through dedicated experimental and computational laboratories. Graduates are prepared to lead in

sectors like renewable energy, energy efficiency and sustainability. The program provides a degree of mastery that equips graduates for a career in academics and advanced research. The program empowers professionals to develop innovative, socially responsible energy solutions for a sustainable future.

M. Tech. Programme in Advanced Materials and Manufacturing (ME65)

The M.Tech. in Advanced Materials and Manufacturing is an interdisciplinary postgraduate programme designed to develop expertise in modern materials science and advanced manufacturing technologies. The programme provides in-depth knowledge of structure–property relationships of metallic, non-metallic, electronic and functional materials, materials characterisation, and advanced manufacturing technologies, including machining, additive manufacturing and MEMS fabrication. Students gain strong analytical and computational skills through courses on computational materials science, modelling, AI and data-driven approaches for materials design. The curriculum integrates laboratory training, industry interactions, and a substantial research project, enabling students to address complex engineering challenges in materials development and manufacturing. Graduates are well equipped for careers in high-technology industries, research and development organizations, and academia, where they contribute to innovations in advanced materials and next-generation manufacturing systems, supporting the nation's priorities toward achieving self-reliance in strategic sectors.

M. Tech. Programme in Machine Design (ME66)

The objective of this programme is to develop personnel trained in design of mechanical systems and related areas for serving the industry as design engineers and analysts, or to motivate them for research in this challenging field. The thrust areas of this programme can be divided into two major categories: (i) stress analysis and related fields and (ii) vibration and dynamics. Students will be given a thorough training in both these areas before being exposed to an advanced design course, where in they are expected to use their knowledge for system level design. After doing advanced core courses in subjects like solid mechanics, mechanisms and design, the students are expected to choose electives of their interest from an array of specialised courses like fracture mechanics, non-linear dynamics, etc., for developing the skills required for a successful career as a design engineer, analyst or researcher.

M. Tech. Programme in Logistics and Supply Chain Management (ME67)

NIT Calicut has started the PG programme in Logistics and Supply Chain Management to enhance logistics competence by imparting a deep understanding of its core concepts and methodologies, enabling individuals to align supply chain strategies with organisational goals. This programme is tailored to train the students to develop proficiency in transportation and distribution management, including inventory control, warehousing, network planning, and outsourcing. The mandatory core courses include Decision Modelling, Statistics for Management, Operations Management, Supply Chain Analytics, Multimodal Transportation System, and Warehouse Operations and Management. The curriculum also includes five elective courses, which students can choose from a large pool of industry-relevant courses. Several advanced electives are grouped into five stream-specific elective baskets, namely General Management, Digital Automation, Systems Engineering, Sustainability Management, and Engineering Management.

The theory is enhanced through laboratory classes and seminars. Adequate exposure is also given on software tools and techniques in the relevant areas. This Programme is tailored to develop the skills students need to manage resources optimally, especially in the data science era, and to develop better procedures and management practices for efficient logistics and supply chain operations.

M. Tech. Programme in Operations Research and Data Analytics (ME68)

NIT Calicut has launched a PG programme in Operations Research and Data Analytics to meet the growing demand for highly skilled professionals in data-driven decision-making and harnessing the power of AI and Data Analytics. This programme includes both theoretical courses for concept development and laboratory sessions for hands-on experience in Operations Research, Statistical Modelling, Machine Learning, and Decision Sciences. The mandatory core courses include Decision Modelling, Statistics for Management, Operations Planning and Control, Optimization Models and Techniques, Artificial Intelligence: Techniques and Applications, and Machine Learning: Models and Applications. The curriculum also includes five elective courses, which students can choose from a large pool of industry-relevant courses. Several advanced electives are grouped into five stream-specific elective baskets, namely Digital Automation, Systems Engineering, Sustainability Management, and Engineering Management. The theory is enhanced through laboratory classes and seminars. Adequate exposure is also given on software tools and techniques in the relevant areas. This Programme is tailored to develop the skills to apply advanced analytical methods, such as mathematical modelling and optimization techniques, to solve complex problems, and to develop an understanding of statistical analysis, machine learning, and visualisation to transform data into insights for optimal decision making

DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING

M. Tech. Programme in Materials Science and Engineering (MT62)

Materials Science and Engineering is an emerging interdisciplinary field, ranked among the top subjects in academia and research. This programme will impart state-of-the-art knowledge in this area and has the objective of training students to make them capable of addressing the challenges of this technological field. The programme is designed for students with a background in Engineering and Science. This will cover the fundamentals and applications of the subject, with a focus on emerging areas in Materials Science and Engineering. The courses offered in the programme include fundamental and applied subjects such as Physics of Materials, Thermodynamics of Materials and Systems, Experimental Techniques for Materials, Microscale and Nanoscale Heat Transfer, Computational Material Science, Micro Electro Mechanical Systems, and a variety of elective subjects from which students can choose, according to their background and interest. Laboratory courses on the synthesis and applications of nanoparticles, nanofluids, and composites, as well as exposure to discrete computational analysis of materials and systems, will also be offered as part of the curriculum. The specialization in Materials Science and Engineering holds a very high potential for employment in R&D, academics and industries, as well as provides a gateway to this extremely challenging field, which is expected to have a profound impact on the future of all streams of science and technology.

B. Admissions to Full Time M.Sc. Programmes (Self-sponsored)

1. Introduction

Programmes leading to M.Sc. degree are offered by the Departments of Mathematics, Physics and Chemistry. The details of the M.Sc. programmes and the number of seats under the self-sponsored category are as given below:

Department	Code	Programme	Programme Code	No. of Seats (Self-sponsored)
Mathematics	MA	M.Sc. Mathematics	MA62	10
Physics	PH	M.Sc. Physics	PH62	10
Chemistry	CY	M.Sc. Chemistry	CY62	10

2. Eligibility for Admission to M Sc. Programmes (Self-sponsored)

The candidates applying for admission to M.Sc. programmes at NITC under the self-sponsored category have to satisfy the following minimum academic eligibility requirements as given below:

***M.Sc. Degree in Mathematics*:** UG degree in Mathematics / Mathematical Sciences / Applied Mathematics / Statistics / Engineering Physics / Electrical Engineering / Electronics Engineering / Computer Science Engineering / Mechanical Engineering

or

PG degree in Statistics / Physics / Engineering Physics / Data Science / Computer Science, with a minimum of 60% marks (or CGPA 6.5/10) for GEN / GEN-EWS / OBC candidates, and 55% marks (or CGPA 6.0/10) for SC / ST / PwD candidates. In addition, the candidate must have studied Mathematics at the 10+2 level.

***M.Sc. Degree in Physics*:** B. Sc./BS/ B. Sc. Ed./ B. Sc. B.Ed. Degree with Physics as main/one of the main subjects Or BE/B. Tech. degree in any discipline. All applicants must have minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6.0/10) for SC/ST/PwD with a minimum of 2 Mathematics or Mathematics related courses during their UG program.

***M.Sc. Degree in Chemistry*:** B Sc/equivalent Degree with Chemistry as Main Subject/Chemistry as one of the main subjects with minimum 60% marks (or CGPA 6.5/10) for GEN/GEN-EWS/OBC and 55% marks (or CGPA 6.0/10) for SC/ST/PwD.

Conversion from CGPA to percentage or vice versa given by individual Institute/University will not be considered / allowed.

Selection of candidates for M. Sc. programmes under the Self-Sponsored Category will be based on the performance of the candidate in the test/ interview conducted by the respective Department.

Candidates appearing for final semester/year Bachelor's degree during the academic year 2026-27 are also eligible to apply provided their final semester/year results are made available by 30th September 2026. Such candidates will be considered for provisional admission. The provisionally admitted candidates will have to discontinue the course, if he/she does not produce the provisional certificate and mark lists (satisfying the minimum requirements of marks / CGPA) on

or before 30th September 2026. Such candidates will not be eligible for any refund of fees paid by him/her. Provisional admission is not applicable to candidates who have failed in the qualifying examination and subsequently appeared for the supplementary examination.

3. Highlights of the M.Sc. Programmes Conducted by NIT Calicut

The Four semester (Two year) M.Sc. programmes are based on the credit system comprising different core and elective courses and project work. The highlights of M.Sc. programmes offered by various departments at NITC are given in the following section.

DEPARTMENT OF MATHEMATICS

M.Sc. Degree in Mathematics: The focus of the Programme would be to generate mathematics graduates with strong fundamentals, who are confident of applying their knowledge to practical/research problems in Mathematics and related areas. The curriculum and syllabi maintain an appropriate balance between pure and applied mathematics by providing familiarity with a wide range of mathematical tools on the one hand and at the same time giving enough importance for developing analytical skills, thus keeping career option in academia, R&D organizations and Industries open.

DEPARTMENT OF CHEMISTRY

M.Sc. Degree in Chemistry: The department is offering a M.Sc. course in Chemistry. The aim of the programme is to prepare students for a career in academia or industry, with strong basics in fundamental aspects of chemistry and exposure to the latest research trends. The programme curriculum and syllabi are designed to cover all major branches of chemistry with regular revisions to incorporate the latest developments in each area.

DEPARTMENT OF PHYSICS

M.Sc. Degree in Physics: The objective of this two year M.Sc. Physics programme is to prepare students for a career of research and academics, in basic or applied sciences. The programme focuses on building a strong base of fundamental principles on which modern physics is built. This would enable the students emerging from this programme to compete with the best of talent available at the entry point to Ph.D. programmes anywhere in the country or abroad.

C. How to Apply?

1. Apply online using the following link: https://pgadmission.nitc.ac.in/login
2. Register with your e-mail ID to create a login for the online portal.
3. Use the registered e-mail ID and password to log in to the application portal.
4. Carefully read all the instructions provided in the portal before applying.
5. Fill in your personal details, address details, and other miscellaneous information.
6. In the Educational Qualification section, add your 10th, 12th, and degree qualifications.
   a) In the marklist section upload colored scan copy of the Grade/Mark sheets of qualifying examination for all semesters (Mark sheets of all semesters/years need to be combined to a single pdf for uploading/ Consolidated Grade(Mark) sheet with all subjects mentioned in it).
   b) In the certificate section upload colored scan copy of the Degree/ Provisional certificate. If result of qualifying degree is awaited, certificate of course completion from the institute/university last studied must be provided clearly indicating the date of completion of

the course. (course completion certificate format is available in the nit Calicut website).

7. Choose the department and programme carefully based on your eligibility criteria. Once the application is submitted, changing the department/programme is not possible. The selection will be treated as final.
8. In the Upload Documents section, upload colored scanned copies of the following:
   a) Marksheet of Class X / Birth Certificate as proof of date of birth
   b) Photo ID proof as per Govt. of India norms.
   c) Candidates claiming percentage/CGPA relaxation as specified in the eligibility conditions should produce the relevant category certificate as detailed below.
      i. Community Certificate, in the case of SC/ST candidate, from a competent authority (not below the rank of Tahsildar).
      ii. Certificate from the Medical Board of Govt. Medical Colleges/Dist. Head Quarters Hospitals, in the case of Persons with Disabilities (PwD), if applicable.
   d) Recent photograph (maximum size: 50 KB) and signature (maximum size: 40 KB)
9. Payment can be made using Net Banking/Credit Card/SBI Challan (by cash) through State Bank Collect (online). Application fee for OP/EWS/OBC is Rs. 1000/- while that for SC/ST/PwD is Rs. 500/-. **APPLICATION FEE IS NON-REFUNDABLE.**

Note:

1. If the original certificates are not in English/Hindi, English/Hindi version/translation of such certificates, duly certified by the Principal/Director or other competent authority of the graduating Institute, will be required during the verification of documents.
2. Standard format of the necessary certificates are available in the following link https://nitc.ac.in/pg-formats-of-certificates.
3. Applications which are incomplete/defective/received late, will be rejected summarily and no correspondence will be entertained on such applications. The instructions for online submission of application are available in the online admission portal.

D. Fee Structure

A. The fee structure for the M.Tech./M.Plan. programme for both Self-Sponsored and Sponsored (Industry/Organization) students.

Sl. No	Fee Category	Monsoon Semester 2026-27	Winter Semester 2026-27	Monsoon Semester 2027-28	Winter Semester 2027-28
1	Tuition Fee	1,20,000	1,20,000	1,20,000	1,20,000
Other Fees					
1	Registration Fee	2,000	2,000	2,000	2,000
2	Examination Fee	2,000	2,000	2,000	2,000
3	Students Activities Fee	600	600	600	600
4	Association and Cultural Fee	1,200	-	1,200	-
5	Students Welfare Fee	1,200	-	1,200	-
6	Career Development Fee	1,200	1,200	1,200	1,200
7	Library Fee	4,000	-	4,000	-
8	Central Computing Facility Fee	600	600	600	600
9	Internet Fee	1,200	-	1,200	-
10	Sports Fee	1,200	-	1,200	-
11	Health Centre Facility Fee	1,200	-	1,200	-
12	Annual Premium for Medical Insurance	1,500	-	1,500	-
13	Campus Amenities Fee	1,200	-	1,200	-
14.a	Thesis Fee (only for M.Tech)	-	2,000	2,000	2,000
14.b	Thesis and Jury Fee (only for M.Plan)	-	4,000	4,000	4,000
One Time Fees					
1	Caution Deposit	20,000	NOT APPLICABLE		
2	Admission Fee	5,000			
3	Campus Development Fee	25,000			
4	Alumni Affairs Fee	5,000			
5	Convocation Fee	5,000			
6	Identity Card & Miscellaneous Fees	1,000			
Total of One Time Fees		**61,000**			
Total for M.Tech		**2,00,100**	**1,28,400**	**1,41,100**	**1,28,400**
Total for M.Plan		**2,00,100**	**1,30,400**	**1,43,100**	**1,30,400**

- Amount towards Annual Premium for Medical Insurance may vary every year.
- Students availing the institute's hostel facility need to remit the applicable fee as per hostel fee demand.

B. The fee structure for the M.Sc. programme for Self-Sponsored students.

Sl. No	Fee Category	Monsoon Semester 2026-27	Winter Semester 2026-27	Monsoon Semester 2027-28	Winter Semester 2027-28
1	Tuition Fee	35,000	35,000	35,000	35,000
Other Fees					
1	Registration Fee	2,000	2,000	2,000	2,000
2	Examination Fee	2,000	2,000	2,000	2,000
3	Students Activities Fee	600	600	600	600
4	Association and Cultural Fee	1,200	-	1,200	-
5	Students Welfare Fee	1,200	-	1,200	-
6	Career Development Fee	1,200	1,200	1,200	1,200
7	Library Fee	4,000	-	4,000	-
8	Central Computing Facility Fee	600	600	600	600
9	Internet Fee	1,200	-	1,200	-
10	Sports Fee	1,200	-	1,200	-
11	Health Centre Facility Fee	1,200	-	1,200	-
12	Annual Premium for Medical Insurance	1,500	-	1,500	-
13	Campus Amenities Fee	1,200	-	1,200	-
14	Seminar/ Thesis Fee	-	2,000	2,000	2,000
	Total of Other Fees	**19,100**	**8,400**	**21,100**	**8,400**
One Time Fees					
1	Caution Deposit	20,000	NOT APPLICABLE		
2	Admission Fee	5,000			
3	Campus Development Fee	25,000			
4	Alumni Affairs Fee	5,000			
5	Convocation Fee	5,000			
6	Identity Card & Miscellaneous Fees	1,000			
	Total of One Time Fees	**61,000**			
	Total	**1,15,100**	**43,400**	**56,100**	**43,400**

- Amount towards Annual Premium for Medical Insurance may vary every year.
- Students availing the institute's hostel facility need to remit the applicable fee as per hostel fee demand.

Note: The fee refund policy is available on the NIT Calicut website. Kindly review it carefully before submitting your application.

E. Important Dates

Events	Dates
Activation of the portal for submission of online application	**01st April 2026 (10:00 AM)**
Last Date for Receipt of Completed Applications (through online)	**04th May 2026 (10:00 AM) (tentatively)**
Test and/or Interview	**To be announced later**

LEGAL JURISDICTION

All disputes pertaining to the counseling and admission for the M.Tech./M.Plan/M.Sc. Self-Sponsored/ Sponsored programmes of NIT Calicut shall fall within the jurisdiction of High Court of Kerala only.

DISCLAIMER

The statement made in the information brochure and all other information contained herein is believed to be correct at the time of publication. However, the Institute reserves the right to make, at any time without notice, changes and additions to the regulations, conditions governing the admission, requirements, seats, fees and any other information, or statements contained in this information brochure. No responsibility will be accepted by the Institute/Chairperson-PG Admissions for hardship or expenses encountered by students/any other person for such changes, additions, omissions or errors, no matter how they are caused.

Address for Correspondence

PG Admissions
National Institute of Technology Calicut
NIT Campus P.O. Calicut 673 601
Kerala, India
Contact Number: **0495 2286119**
9188925291
E-mail: pgadmissions@nitc.ac.in

Dean Academic
National Institute of Technology Calicut
NIT Campus P.O. Calicut 673 601
Kerala, India
E-mail: dao@nitc.ac.in

****