INFORMATION BULLETIN

JULY ADMISSION 2021-22

National Institute of Technology Calicut

Institution of National Importance under NIT Act, 2007

N.I.T. Campus P.O., Calicut – 673601, Kerala, India

Phone +91-495-2286101, Fax: +91-495-2287250

www.nitc.ac.in

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National Institute of Technology Calicut

Institution of National Importance under the Ministry of HRD, Govt. of India

Profile of the Institute

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 Human Resource Development (MHRD), Government of India elevated CREC to a Deemed University under the name 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 NIT Act, MHRD, Govt. of India. 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, MCA, and Ph.D. degrees in various disciplines. NITC is a recognised Quality Improvement Programme (QIP) Centre for offering M. Tech. and Ph.D. programmes for teachers of Engineering Colleges & Polytechnics. The institute is a recognized research institution for pursuing research work leading to Ph.D. degree under 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.

ADMINISTRATION

Director in Charge	Dr. P.S. Sathidevi
Deputy Director	Dr. P.S. Sathidevi
Registrar	Lt. Col. Pankajakshan K. (Retd.)
Dean (Academic)	Dr. Saly George
Dean (Planning and Development)	Dr. Naseer M A
Dean (Research and Consultancy)	Dr. V Madhusudanan Pillai
Dean (Faculty Welfare)	Dr. Chandrasekharan K
Dean (Students Welfare)	Dr. S. D. Madhukumar
Dean (Alumni Affairs and International Relations)	Dr. Jeevamma Jacob
Head of Departments/Schools	
Architecture and Planning	Dr. P. P. Anil Kumar
Chemical Engineering	Dr. Aparna K
Chemistry	Dr. Sujith A

Civil Engineering	Dr. P. V. Indira
Computer Science & Engineering	Dr. Muraleekrishnan K.
Electrical Engineering	Dr. Rijil Ramchand
Electronics & Communication Engineering	Dr. Deepthi P. P.
Mathematics	Dr. Sunitha M S
Mechanical Engineering	Dr. Jose Mathew
Physics	Dr. Aji A Anappara
Training Placement	Dr. V. Sajith
Physical Education	Mr. Sunil M. S.
School of Biotechnology	Dr. Suchithra T.V.
School of Management Studies	Dr. T. Radha Ramanan
School of Materials Science and Engineering	Dr. Soney Varghese

Associate Deans

Academic	Dr. Sindhu T. K.
Academic	Dr. Raghu C. V.
Planning and Development	Dr. Gopakumar G.
Planning and Development	Dr. Krishnamurthy K.
Research and Consultancy	Dr. Arun P.
Faculty Welfare	Dr. P.K. Madhavan Unni
Students Welfare	Dr. Mohammed Firoz. C
Alumni Affairs and International Relations	Dr. Shijo Thomas

Chairman/Chairperson

Postgraduate Admissions	Dr. Sreelekha G
Undergraduate Admissions	Dr. Sunil Jacob John
Education Technology and Library	Dr. Raghu Chatanathodi.
Internal Quality Assurance Cell	Dr. C. Muraleedharan

Chief Warden	Dr. A. Santhiagu
Professor & Head (Training and Placement)	Dr. V. Sajith
TEQIP Coordinator	Dr. A. S. Sajith

Deputy Chairman / Chairperson

Postgraduate Admissions	Dr. Murali K. P. & Dr. Vineesh Ravi
Undergraduate Admissions	Dr. Sunil Kumar T. K.
Education Technology and Library	Dr. Pornami P N

SC/ST Liaison Officer	Dr. T. M. Madhavan Pillai
Deputy Registrar (Academic)	Mr. Gejo C.V.
Officer on Special Duty (Stores and Purchase)	Mr. K M Muralikrishnan
Officer on Special Duty (Audit)	Mr. Cyril E. K.
Librarian (i/c)	Smt. Sobhana J
Assistant Registrar (Establishment)	Ms. S. Sreeda
Assistant Registrar (Finance)	Mr. Ashok Kumar Dev
Assistant Registrar (Administration)	Mr. S. Saravanan
Assistant Registrar (Stores and Purchase)	Dr. Asha Gopalan

LOCATION

Set in a picturesque landscape at the foothills of the Western Ghats, NIT Calicut is located about 22 kilometers 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* near Calicut, which is 45 kms from the Institute. One can reach the campus by car from Kozhikode International Airport in approximately 45 minutes. Kozhikode railway station is 23 kilometers away. Local buses are available frequently for commutation between campus and the main city.

INFRASTRUCTURE FACILITIES

The Institute has a well-equipped library, a computer centre, lecture hall complexes, various laboratories in different departments, workshops, and hostels for accommodating about 6000 students, health care centre, and adequate facilities for sports, games and co-curricular activities. The institute has a guesthouse, with A/C and non A/C rooms, for the guests of the institute, including alumni and parents of the students. To provide service to the residents, the campus also accommodates a branch of State Bank of India, Post Office, Canteen and Co-operative Store.

Education Technology and Library

Education Technology & Library (ETL) consist of Central Library and Digital Library. The central Library of NIT Calicut is one of the best technical libraries in South India. It came into being with the establishment of the college in 1961. Central Library is having a floor of 1490 m². It has a very good collection of more than one lakh technical/scientific books. Central Library offers its services to more than 8,000 users comprising of undergraduate, postgraduate students, research scholars,

faculty and employees from various Departments of the Institute/ Centres/Sections. The services of the Central Library are fully automated using KOHA, and the entire collection is accessible throughout the campus. Using KOHA OPAC, users can search the online library catalogue by Author, Title, Subject and Keywords. The library management software along with existing campus-wide intranet imparts the following features:

- Automated front-desk operations.
- Campus-wide online access, catalogue access.
- RFID-based automated collection/bar-coded user identification.

Central Library subscribes reputed International Journals and Indian Journals in online and print forms. The Digital Library, **'NALANDA'** provides online access to more than 6000 electronic journals in various Engineering and Science disciplines. NALANDA hosts many electronics data bases in its servers. As a member of the Shodh Sindhu Consortium under the Ministry of Human Resource Development, GOI, NALANDA promotes the use of e-journals and e-books for advanced research and learning in the Engineering and Science Education. Major online resources are journal/magazine/ conference records/standards of IEE, IEEE, Springer, ASME, ASCE, and ACM Digital Library core packages. Online access to study materials is available through a local copy of NPTEL. Resources like CMIE, ACE Analyzer, Eikon, Grammarly, Knimbus, Emerald, J Gate, Scopus, and Web of Science are available to the NITC community through the digital library. Library also subscribes to plagiarism checker - Turnitin. The digital library is developing the NITC resources by collecting and indexing the students' project reports/theses through an ETD run with DSpace, which also houses the national and international standards. Eduserver - running in the Digital Library - hosts the moodle platform for online course management. E-books from Wiley, Springer and Pearson are also made available.

Digital Library reading room housing about 50 computer terminals provides exclusive access to online resources. All resources are available throughout the campus from http://www.library.nitc.ac.in.

There is a separate section for SC/ST students, funded by the Institute as well as Kerala State Govt. Scheduled Caste Welfare Department.

An air-conditioned study room, with CCTV surveillance, is functional for the Institute's user community. Here users are permitted to bring their personal books, laptops and other study materials for self-study.

The Central Library also houses a Reprographic section which consists of a Graphic Studio, Offset press and a Binding Section. These sections cater to the related needs of the Institute.

Working Hours:

Library remains open from 8 am to 11 pm on all working days. It remains closed on Sundays and Institute holidays. Working hours of Study Room are from 9 am to 11 pm on all days, including holidays.

NITC Central Library offers a powerful combination of traditional resources, sophisticated technology, and well-designed spaces to support learning, teaching and scholarship, along with friendly and knowledgeable staff to assist in using these tools and collections.

Eduserver

This will provide a facility for faculty to offer common and additional online topics/subjects as the part of the curriculum including on-line tutorials, evaluation and simulation etc.

Central Computer Centre

Central Computer Centre (CCC) is the central facility in NIT Calicut which caters for the computing requirements of the whole community of this institution. The centre has state of the art infrastructure with four fully operational terminals spanning over three floors of the building. Decision Support System (DSS) of the institute also operate from the Centre building. The Centre has 190+ client machines and has a capacity to include 400+ machines. Client systems are of both desktop and workstation genre. Desktops contain DELL OPTIPLEX 755 and 7010 series which are of adequate performance and workstations contain HP XW4550 and DELL Precision 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 and HP ProLiant Rack server which has a dual quad-core processor.

A state of the art Super Computing Facility with 20 Tera FLOPS computing power meet the research needs of the Institute. The facility can be accessed by all the departments and schools anywhere in the campus through networking. The centre possesses a bundle of software, packages and OS for diversified applications. Some of the numerous applications which support academic and creative needs of the student are ANSYS, MATLAB, Adobe Suite, etc. Computers in the CCC are loaded with Windows and Linux operating systems for convenience and centralized authentication is provided for both. 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 17 hours a day (7 am – 12 midnight), 7 days a week, except national holidays unless instructed otherwise.

Campus Networking Centre

The Campus Networking Centre (CNC) is the central facility providing the software, hardware and networking support to the entire student and staff community of NITC Campus. CNC manages internet connectivity (both wired and wireless), Institute website and IP phones. The campus is interconnected with about 30 kms of fibre optic backbone network with 80 routed internal networks, managed by the Unified Threat Management System. The centre is equipped with Firewall, Routers, Domain Name Server, Web Server, Proxy Servers and IP phone server, etc. Presently the network is served by 1Gbps of Internet connectivity provided by BSNL under NKN scheme of MHRD and 12 Mbps by RELIANCE. The Institute Website is managed by CNC. CNC functions on a 24x7 basis, 365 days without any holidays. IP phones are installed in all Academic and Administrative sections. The IP Phones and IP Phone server are also implemented, configured and managed by CNC.

Hostels

There are eleven hostels for men and two hostels for women. The total capacity of all hostels currently available is more than 6000. All the hostels have Common room and Recreational centre where, newspapers, magazines, TVs and indoor and outdoor sports/ games facilities are available. Guest room facilities are available in each hostel for the relatives/guests of hostel inmates on chargeable basis. Twenty-four hour internet and computational facilities are available in almost all hostels; it is getting extended to other hostels too. A new mega hostel for boys is getting ready for occupation. Twenty four hours of water and electricity supply is ensured in all the hostels. Mini canteen, Milma, Amul kiosks, DTP centre, Co-operative store, Book centre, Laundry, etc., are functioning in the Students Activity Centre functioning near the Hostels.

There are 11 messes serving food with wide varieties of menu, associated with men's hostels out of which, two are dedicated vegetarian messes. Four messes in the ladies hostel cater to the varying tastes of students from all over India. **All the students except first-year boys are allowed to join any of the messes of their choice**. However, dining from any one of the messes with in the hostel premises is compulsory for the inmates. Apart from the main messes, optional night mess services are available till midnight in the hostels enabling students to take tiffin and snacks during their overnight studies. To provide a calm and favourable environment for the students, the inmates of hostels are strictly instructed to follow the code of conduct of NITC Hostels.

The ladies hostel has facilities like ladies gym, stitching and tailoring centre, hostel library, indoor sports centre, DTP centre, Ice cream shop, Co-operative store, etc. A night canteen and an Amul kiosk function in Ladies hostel as well.

Hostel Fee:

One Time fee for all PG (M.Tech./M.Plan./ MCA/ M.Sc/MBA.) & Ph.D. Programmes

Sl.No	Description	Amount (in Rupees)
1	Cost of Application Form	500/-
2	Hostel Amenities fund (Non-Refundable)	4500/-
3	Caution and Furniture Deposit (Refundable at the end of the Programme on the production of Non-Liability Certificate)	10000/-
	Total	15,000/-

Note:

1. *Hostel room rent/ electricity/ water/ mess and other establishment charges are payable on a monthly basis. However, parents/ students can pay an amount of Rs.20,000/- (Rupees twenty thousand) at the beginning of every semester as an advance. If found deficient, parents/ students will be informed to pay the balance. If found excess, the balance amount will be carried over to the next semester.*

2. *The financial requirements given above are subject to change.*

Hospital & Healthcare Facilities

Medical care offered by the Institute at its own Health Centre has 10 beds and a clinical laboratory for routine biochemical tests. There are two medical officers - a Lady Medical Officer and two Resident Medical Officer - and qualified nursing staff to look after the health needs of the campus residents. Institute, through insurance firms, offer a mediclaim policy for the students which offer up to Rs. 1, 00,000 for hospitalization for a nominal premium paid by the students.

Banking and Postal Facility

A fully computerised branch of the State Bank of India (SBI) with networked ATM and internet core banking facility functions within the campus. The bank also extends financial support in the form of loans for meeting the educational expenses of students. A Post Office with value added facilities like Speed Post functions within the campus.

Mobile Communication Services

All major service providers provide mobile phone coverage in the campus. BSNL Telephone Exchange also is functioning inside the campus.

Engineering Unit

The construction, renovation and maintenance of buildings, compound wall, laying of roads, water supply, allotment of residence, campus electricity distribution and maintenance etc. are carried out by the Engineering Unit.

Guest House

Guest house facility is available in the campus for the guests of the Institute which is extended to relatives of staff and students based on specific requests.

Transportation Facility

The Institute provides facility for transportation to the city by operating bus services for the campus community in the morning and evening. Bus facility is also provided during lunch-break from the East campus towards ladies hostel area. In addition, vehicle service is provided at frequent intervals connecting various locations in the campus for the benefit of the students.

OTHER FACILITIES

Apart from those mentioned above, there are many facilities provided in the campus aimed at improving the academic environment in the campus and also for the holistic development of the students.

Student Guidance Cell

The Student Guidance Cell (SGC) aims to provide guidance and counselling services to students based on their needs with assured privacy and confidential exchange of communication. SGC also provides academic support in the form of special classes for students. The formation of SGC was based on the feedback from graduated students of the Institute who stressed on the need to have a facility to counsel and motivate the students. SGC helps the students to function better in all domains of life – academic, social, personal and psychological. The motive behind SGC stems from

the need to facilitate the process of growth and maintain the positive well-being of the students. The counselling services offered by SGC empowers the students to have enhanced the ability to solve problems, make decisions, as well as, make them more efficient in tackling personal problems. In a nut shell, it is aimed at enhancing their ability to utilize to the best, the potential available in them. The SGC avails the help of two trained clinical psychologists who are available in the institute.

The Clinical Psychologists are available in **Room No MB 204** (Old admission room in Main Building) as per the following timings:

Monday to Friday: 9:00 am to 1 pm & 2 pm to 5.30 pm.

Contact No. 0495-228-6180. Website: www.sgc.nitc.ac.in. Email: sgc@nitc.ac.in

Centre for Value Education (CVE)

NIT Calicut gives its students a unique opportunity to engage in activities that promote human values. A one-credit course on value education is an academic requirement in the NIT curriculum.

Physical Education and Sports

NIT Calicut, true to its objective of "total fitness in the campus" has rightly included Physical Education in the UG curriculum, which is designed to orient the fresh batch of students to the basic need for health-related physical fitness through sports and to compulsorily participate in a 1-Credit Course in Physical Education. The Institute offers the students all major infrastructure including Swimming Pool, Skating Rink and Gymnasium to choose from, for making their campus life worthwhile and fruitful. In addition, the highly talented are spotted, trained and exposed to higher level of competition like the Inter-university, Inter-NIT and State tournaments.

National Service Scheme

NIT Calicut has a National Service Scheme Cell operating under the Kerala State NSS Cell, with four NSS units. Volunteers are encouraged to take up socially relevant activities outside the campus, specifically in the Chathamangalam Panchayath adopted by the Cell. NSS is part of the UG curriculum and every student has to successfully undergo a one-credit NSS programme before he or she enters the fifth semester.

Technical Education Quality Improvement Programme

Technical Education Quality Improvement Programme (TEQIP) is the Scheme of Government of India through which the selected institution shall be getting financial assistance for modernisation and academic reforms.

Centre for Transportation Research

The Centre for Transportation Research (CTR) was set up in 2013 with funding by Ministry of Human Resource Development under scheme "Establishment of 50 centres of excellence for Training and Research in Frontier Areas of Science and Technology scheme" (FAST scheme). The mission of Centre for Transportation Research is to improve the quality of life in our community, region and nation through leadership and excellence in transportation research, education and

outreach using all the resources and strong partnership with government and industry. The CTR carries out research, training, testing and public awareness programmes in various aspects of transportation engineering.

STUDENTS AFFAIRS COUNCIL (SAC) AND CO-CURRICULAR ACTIVITIES

The Students Affairs Council, also referred to as SAC, is a student representative body whose members are elected by the student community. It is the apex student body of NITC and is responsible for a wide range of activities and events that take place in the campus. The most prominent role of the Students" Council, however, is its endeavor to ensure the academic progress of the students and their well-being.

The executive council functions as a body accountable to the SAC to execute and implement the policies of SAC. Presided over by the General Secretary, it also addresses the grievances of the student community and works for their welfare. It also comprises of Academics Affairs Secretary, Research Affairs Secretary, Hostel Affairs Secretary, Sports Secretary, Cultural Affairs Secretary, Technical Affairs Secretary, Joint Secretary and Chief Student Editor. Each executive chairs a council which tackles the issues under his/ her domain.

The SAC organizes various cultural and technical events through different clubs and forums and also the two major annual events: "Tathva", the techno-management festival, held in the Monsoon semester and the cultural festival "Ragam", held in the winter semester.

TRAINING AND PLACEMENT

The Institute has a Centre for Training & Placement which looks after the training/internship for the students, their placement on graduation and for partnership with industry.

TECHNOLOGY BUSINESS INCUBATOR

A Technology Business Incubator (TBI) with the assistance from Department of Science and Technology, Government of India has been established. TBI helps in incubating knowledge-based start-ups into sustainable business providing necessary infrastructure and guidance.

DISTINGUISHED ALUMNI

A vast majority of the former students have made a lasting impact in the professional areas such as academics, administrative services, research laboratories, government departments and private industries. A strong network of alumni thrives in India, as well as, in foreign countries.

PARENT TEACHER ASSOCIATION OF NIT CALICUT (CREC PTA)

CREC Parent –Teacher Association, had originated as a charitable society keeping the objective of developing the educational, cultural, and training activities of students who are admitted in CREC (presently NIT Calicut) on no profit not loss basis. At present, Dr. Saly George, Dean (Academic), Dr. Shiny Joseph, Professor, CHED and Dr. Dhanya Ram V., Asst. Professor, CHED are nominated as the President, Secretary, Joint Secretary cum Treasurer, respectively. Some of the major activities of the PTA include the following:-

- Financial assistance to meritorious students requiring financial support
- Silver Jubilee Endowment Trust Scholarship for needy students

- Cash awards for gold medalists from all branches of study
- Travel support for Students for presenting papers in International Conferences held in India
- Organizing department level Parent Teachers Meetings and Annual GBM during every year
- Supporting cultural & technical festivals organized by Students & Staff of NIT Calicut.
- Financial support to the student volunteers in Central Library.

More details of CREC PTA can be found in the website: http://www.nitc.ac.in/crecpta.

Email id: crecpta@gmail.com. Phone number: 04952286126

PROGRAMMES OF STUDY

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)Recognised by the Council of Architecture

Post graduate Level - M.Tech./M.Plan. Programmes (2 years - 4 semesters)

Department/ School	Programme	Programme Code
Architecture & Planning	Urban Planning	AR61
Civil Engineering	Structural Engineering	CE61
	Traffic & Transportation Planning	CE62
	Offshore Structures	CE63
	Environmental Geotechnology	CE64
	Water Resources Engineering	CE65
Chemical Engineering	Chemical Engineering	CH61
Computer Science & Engineering	Computer Science & Engineering	CS61
	Computer Science & Engineering (Information Security)	CS62
Electronics &Communication Engineering	Electronics Design & Technology	EC61
	Microelectronics & VLSI Design	EC62
	Telecommunication	EC63
	Signal Processing	EC64
Electrical Engineering	Instrumentation & Control Systems	EE61
	Power Systems	EE62
	Power Electronics	EE63
	Industrial Power and Automation	EE64
	High Voltage Engineering	EE65
Mechanical Engineering	Industrial Engineering and Management	ME61
	Thermal Sciences	ME62
	Manufacturing Technology	ME63
	Energy Engineering and Management	ME64
	Materials Science and Technology	ME65
	Machine Design	ME66
Materials Science and Engineering	Nanotechnology	MT61

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

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

MCA Programme (3 years - 6 semesters)

MBA Programme (2 years - 4 semesters)

Ph.D. Programmes: Engineering branches, Architecture, Planning, Mathematics, Physics,Chemistry and Management.

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
- **Architecture**
  - Urban Design
  - Landscape
  - Conservation
  - Architectural Theory
  - Architectural Visualization & Product Design
- **Sustainable Building Design**
  - Building Services
  - Energy Modelling
  - Building Information & Management
- **Building Technology & Management**
  - Alternate Building Materials
  - Construction Management

CHEMICAL ENGINEERING

- **Energy & Environment**
  - Biofuels
  - Fuel Cells
  - Energy Harvesters
  - Waste Water Treatment
  - Clean Coal Research & Development
  - Electrochemical Engineering
  - Renewable Energy and Clean Technology
- **Materials Science**
  - Nano Composites
  - Fracture Mechanics
  - Polymer Technology
  - Membrane Technology
- **Multiphase Flow Systems**
  - Microfluidics
  - Phase Change Heat Transfer
  - Comminution & Classification
  - Experimental & Computational Fluid Dynamics
- **Process Dynamics & Control**
  - Control systems
  - Process Intensification
  - Process Systems Engineering

CHEMISTRY

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

CIVIL ENGINEERING

- Structural Engineering
- Strength and Behaviour of Offshore Structures
- Traffic and Transportation Planning
- Water Resources Engineering
- Geotechnical Engineering
- Environmental Engineering
- Construction Project Management
- Sustainability and Development of Building Materials

COMPUTER SCIENCE & ENGINEERING

- Parallel and Distributed Computing Systems
- Intelligent Systems
- Program Analysis
- Algorithms and Complexity
- Information Management & Security
- Machine Learning

ELECTRICAL ENGINEERING

- Power & Energy Systems
- High Voltage Engineering
- Power Electronics& Drives
- Control and Signal Processing
- Biomedical signal/image processing and Instrumentation
- Industrial Power & Automation

ELECTRONICS & COMMUNICATION ENGINEERING

- Speech/Audio/Image/Video Processing
- Signal Theory
- Compressed Sensing/Sparse Signal Processing
- Multi-rate Signal Processing and Filter banks
- Biomedical Signal Processing
- Machine Learning
- Wireless Communications and Networks

- OFDM/MIMO and Massive MIMO
- 5G Wireless Communications
- Cryptography and Secure Communication
- VLSI architectures for Signal Processing
- Power Management IC Design
- Analog & Mixed-signal IC design
- Semiconductor Device modeling
- Micro fabrication Technology
- Micro/Nano Electro Mechanical System (MEMS/NEMS)
- RF/Microwave

MATHEMATICS

- Discrete and Fuzzy Mathematics
- Stochastic Modelling and Applied Statistics
- Numerical Analysis and Scientific Computing
- Mathematical Analysis
- Nonlinear Dynamics
- Operations Research

MECHANICAL ENGINEERING

- **Industrial Engineering and Management Stream**
  - Ergonomics and Product Design
  - Supply Chain Management
  - Marketing Management
  - Human Resource Management
  - Production Planning and Control
  - Healthcare/Services Management
  - Data Science Applications in Operations Management

- **Machine Design Stream**
  - Computational Mechanics
  - Robotics
  - Tribology
  - Machine Dynamics and Vibrations
  - Nano- and Micro-mechanics
  - Product Design

- **Materials and Manufacturing Stream**
  - 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
  - Automation of Manufacturing Functions

- **Thermal and Energy Engineering Stream**
  - Renewable Energy Technologies
  - Energy Conservation
  - Fuel Cells and Hydrogen Technology
  - Computational Fluid Dynamics
  - Heat Pipes
  - Cryogenics
  - Jets and Flow Acoustics
  - Combustion
  - Multi-phase Flows
  - High Speed Flows
  - Turbo-machinery
  - Internal Combustion Engines
  - Convection and Radiation Heat Transfer

PHYSICS

- Organic Solar Cell, Nano material for Energy Applications
- Organic & Hybrid Electronics & Photonics
- Graphene Photonics and Carbon Quantum Dots
- Nonlinear Optics and Nano Photonics
- Statistical mechanics of phase transitions – Soft condensed matter Systems
- Computational Modeling of Materials
- 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

SCHOOL OF BIOTECHNOLOGY

- Enzyme Technology
- Microbiology
- Bioprospecting
- Cancer Research
- Bioinformatics and Computational Biology
- Gene Regulation
- Molecular genetics
- Machine Learning and Network biology
- NGS data analysis for Precision Medicine
- Protein Folding
- Protein Engineering
- Genetic Engineering
- Biomodeling and Drug Design

- Neurobiology
- Immunology
- Cell biology and Biophysics
- Bionanotechnology
- Tissue Engineering

SCHOOL OF MANAGEMENT STUDIES

- **Management**
  - Finance, Human resources, Operations, Data Sciences• & Analytics, Marketing, Strategy, Entrepreneurship, Technology Management, Health Business & Policy, and Public Policy
- **Economics**
  - Economics, Econometrics, Health Economics, and Urban Economics
- **English**
  - English Studies, Cultural Studies, Indian Writing in English and Translations, Postcolonial Studies, Dalit Studies, Canadian Literature, Comparative Literature, Literary Theories, Theatre and Drama, and Art Management.

SCHOOL OF MATERIALS SCIENCE AND ENGINEERING

- Nano-materials and their applications
- Nano-fluids
- Photo Catalysis/Water Splitting
- Biomaterials
- Corrosion and Wear Resistant Coating
- Nano Composites for Energy
- Nanocomposites and Nanosensors

STUDENT DISCIPLINE

It is necessary that the Institute should cultivate higher values of honesty, integrity, responsibility, mutual respect for persons, and property and respect for human rights among its students. In order to achieve the same, the institute has a 'STUDENTS' CONDUCT AND DISCIPLINARY CODE 2007' (Annexure III), approved by the senate and is available in the following link http://www.nitc.ac.in/app/webroot/img/upload/Students_code_9th_Octo_07.pdf,

All the candidates getting admitted to the institute and their parent/ guardian are required to give an undertaking to the effect that the students would strictly adhere to the "STUDENTS' CONDUCT AND DISCIPLINARY CODE 2007" during his/her period of stay in the institute.

Ragging is prohibited as per the decision of the Supreme Court of India in Writ Petition No. (C) 656/ 1998. Anybody found to be indulging in ragging will be severely punished which includes expulsion from the institute.

National Anti-Ragging Helpline (UGC) - 24x7 Toll Free Number- 1800-180-5522. E-mail: helpline@antiragging.in

WORKING HOURS

Class Timings: Monday through Friday, 8.00 am to 12.15 pm and 1 pm to 6 pm.

Academic Departments & Office: Monday through Friday, 9.00 am to 5.30 pm with half an hour break for lunch

Library: Monday through Saturday, 8.00 am to 11.00 pm (except Public Holidays)

Central Computer Centre: 7 am to 12 midnight (except Public Holidays)

Health Centre:

Monday through Saturday, 9.00 am to 5.30 pm;

Sundays and Public Holidays - 10.00 am to 12.00 noon

ADMISSION TO Ph.D. PROGRAMME

INTRODUCTION

Facility for doing research leading to Ph.D. degree is available in various departments of NIT Calicut as detailed below:

Department	Code	Department	Code
Architecture and Planning	AR	Mathematics	MA
Chemical Engineering	CH	Mechanical Engineering	ME
Chemistry	CY	Physics	PH
Civil Engineering	CE	**School**	**Code**
Computer Science and Engineering	CS	Biotechnology	BT
Electrical Engineering	EE	Management Studies	MS
Electronics and Communication Engineering	EC	Materials Science and Engineering	MT

Admission to the Ph.D. programmes will be in the following schemes:

> (I)   FULL-TIME (FT)
> (II) PART-TIME (PT) and
> (III) EXTERNAL (EX).

Candidates can apply for the full time scheme under two categories. The regular full time scheme for candidates who process ME/M.Tech degree in the appropriate branch of study as specified by the individual departments and the Direct Ph D scheme where B Tech/ B.E graduates with good academic records and research potential can apply.

For the Part-time and External schemes of registration, the applicant must be a permanent employee of a recognized institution/organization with at least two years of service and be engaged in professional work in the area to which admission is sought. Candidates applying for part-time and external schemes of registration under sponsored category may not require GATE score or any Fellowships.

Candidates under Part-time/External scheme will have to submit no objection certificate from the Head of the institution.

Candidates employed in reputed Research and Development organizations/National Laboratories/Industries having research and development/library facilities recognized by Department of Science and Technology, Government of India or by the Senate of the National Institute of Technology Calicut, can apply for registration under external scheme provided they have minimum of two years experience at the time of admission and are sponsored by the respective institute/organization. External registration is available only for candidates sponsored by and employed in recognized research institutions such as Research and Development Organizations / National Laboratories/ and Industries having R & D facilities recognized by Department of Science and Technology. A candidate applying for admission to the external registration programme must provide detailed information about the research facilities available at his/her organization and must produce a certificate from a competent authority specifying that these facilities would be available to him/her for carrying out research. He/ She should also

provide the bio-data of the prospective supervisor who would supervise the candidate's work at his/her organization. External registration will be granted only when a qualified research guide is available in the sponsoring institution and is willing to guide the candidate along with a guide in NITC. Candidates from educational institution are not eligible under external scheme.

Registration under Part-time Internal scheme is available only to regular employees of the Institute. Candidates from outside the institute, working as full time/regular faculty of any UGC (or any equivalent MHRD approved body) approved institutes or as permanent employees-Scientists/Architects/Planners/Engineers/Managers-in any reputed organizations can apply for registration under part-time scheme provided they have minimum of two years' experience at the time of admission and are sponsored by the institute/organization. Registration under part-time scheme is available to full-time employees of NIT Calicut or research staff (**Those who are working on research projects in which he/she is working** should have completed a period of not less than 6 months in the project and projects should be in force for at least two more years.) working on sponsored research projects in the Institute. The Institute offers Ph.D. programmes under part-time scheme for permanent/contract faculty member and research staff of the Institute if they apply for the same at the normal time for admission with the recommendation of the Head of the department in which he/she is employed. A certificate to this effect from the Principal Investigator/Head of the Department concerned should be attached to the application form. If an employee who has registered as a part-time research scholar resigns his/her job before the minimum period required for the Ph.D. work, his/her registration shall stand automatically cancelled. However, if he/she has completed the course work and comprehensive examination and the required minimum period, he/she can be allowed to continue the research works if the Doctoral Committee of the research scholar recommends the same.

RESERVATION POLICY

Government of India reservation policy will be followed for OC-EWS/OBC- NCL/SC/ST and the Differently Abled (PwD) Candidates. In the absence of application from PwD candidates, the seat reserved for PwD category will be filled by the candidate(s) who belong to the same category (without PwD).

ELIGIBILITY & ACADEMIC REQUIREMENTS FOR ADMISSION TO PHD PROGRAMMES

The candidates for Ph.D. Programmes may be offered admission, based on certain minimum academic requirements to be satisfied by the candidates as given below:

I. Faculty of Engineering:

ME/MTech/MS (minimum 2 years program) Degree in the appropriate branch of study with minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)].

An additional criterion of GATE score (obtained at some point of time in the past) in the respective disciplines or fellowships such as JRF/UGC/NET/CSIR/KSCSTE etc. or qualification in any other national level tests as specified by the GoI order* is also mandatory.

The additional mandatory criterion mentioned above is not applicable for candidates applying under External and Part-time scheme.

For those who are qualified to receive fellowships from external agencies, the amount of fellowship shall be as per norms of the Funding agency.

Candidates shall be required to have passed B.E./B.Tech. Degree in an appropriate branch with

minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates the minimum marks is 55% (CGPA 6.0/10)] in the qualifying examination. Candidates under lateral entry should have passed the three-year diploma in engineering with minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates 55% marks (CGPA 6.0/10)]. Holders of AMIE (approved by AICTE) / other nationally approved programmes equivalent to B.Tech / B.E., in an appropriate area of study, may also be considered eligible.

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

Department of Electronics and Communication Engineering (ECE): For admission to Ph. D program in ECE Department, candidates with ME/M. Tech or equivalent in Electronics and Communication Engineering (ECE)/Electrical Engineering (EE)/Computer Science and Engineering (CSE) or in relevant disciplines related to major areas of research available in ECE department are eligible to apply.

II. Faculty of Architecture and Planning:

Master's degree in Architecture/Design/Planning/Engineering/Technology or its equivalent with minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)].

An additional criterion of GATE score (obtained at some point of time in the past) in the respective disciplines or fellowships such as JRF/UGC/NET/CSIR/KSCSTE etc. or qualification in any other national level tests specified by the GoI order* is also mandatory.

The additional mandatory criterion mentioned above is not applicable for candidates applying under External and Part-time scheme.

For those who are qualified to receive fellowships from external agency, the amount of fellowship shall be as per norms of the Funding agency.

Candidates should possess minimum 60% marks (CGPA 6.5/10) or equivalent **both** in Bachelors and Masters degrees [For SC/ST/PWD candidates 55% marks (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees].

III. Faculty of Materials Science and Engineering:

ME/MTech Degree in the appropriate branch of study /Nanoscience and Technology with minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)]. An additional criterion of GATE score (obtained at some point of time in the past) in the respective discipline or fellowships such as JRF/UGC/NET/CSIR/KSCSTE etc. or qualification in any other national level tests as specified by the GoI order* is also mandatory.

.**OR**

Master's degree in Chemistry/Physics/Life science/Nanoscience and Technology/ any other relevant disciplines related to major areas of research available in the department with minimum 60 % marks (CGPA 6.5/10) or equivalent, [for SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)] and a valid GATE score or UGC/CSIR/NBHM/NET/KSCSTE fellowship in the relevant area, tenable from the current year.

Candidates should possess minimum 60% marks (CGPA 6.5/10) or equivalent **both** in Bachelors and Masters degrees [For SC/ST/PWD candidates 55% marks (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees].

Candidates applying for External and Part-time scheme of registration do not require additional eligibility criteria such as GATE score or UGC/CSIR/NBHM/NET/KSCSTE fellowship.

For those who are qualified to receive fellowships from external agency, the amount of fellowship shall be as per norms of the Funding agency.

IV. Faculty of Biotechnology:

ME/M. Tech. Degree in Biotechnology/Life Science/ Nanotechnology/Material Science/ Chemical Engineering with minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)].

An additional criterion of GATE score (obtained at some point of time in the past) in the respective discipline or fellowships such as JRF/UGC/NET/CSIR/KSCSTE etc. or qualification in any other national level tests as specified by the GoI order* is also mandatory.

<div align="center">OR</div>

Master's degree in Life science with minimum 60 % marks (CGPA 6.5/10) or equivalent, [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)] and a GATE score or fellowships such as NET-UGC/CSIR/NBHM/KSCSTE/INSPIRE/DBT in the relevant area, tenable from the current year.

<div align="center">OR</div>

MD/MS/DNB with MBBS at Bachelor level with minimum 60 % marks (CGPA 6.5/10), [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)]. Candidates with MD/MS/DNB with MBBS at Bachelor level should have qualified in any national level examination for their PG programme and they are exempted from GATE score and other fellowships such as NET-UGC/ CSIR/ NBHM/ KSCSTE/ INSPIRE/ DBT.

Candidates should possess minimum 60% marks (CGPA 6.5/10) or equivalent **both** in Bachelors and Masters degrees [For SC/ST/PWD candidates 55% (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees].

Candidates applying for External and Part-time scheme of registration do not require additional eligibility criteria such as GATE score or UGC/CSIR/NBHM/NET/KSCSTE/DBT fellowship.

For those who are qualified to receive fellowships from external agency, the amount of fellowship shall be as per norms of the Funding agency.

V. Faculty of Science (Chemistry, Physics and Mathematics):

Master's degree in Mathematics/Statistics/Chemistry/Physics/Electronics/Computer Science and Applications/ Nano Science and Technology/ Material Science/ Photonics with minimum 60% marks (CGPA 6.5/10) or equivalent, [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)] and a Valid GATE score or UGC/CSIR/NBHM/NET/JEST/KSCSTE fellowship in the relevant areas tenable from the current year.

<div align="center">OR</div>

ME/MTech Degree in the appropriate branch of study in relevant disciplines related to the major areas of research available in these departments with minimum 60% marks (CGPA 6.5/10) [For SC/ST/PWD candidates, the minimum mark is 55% (CGPA 6.0/10)]

An additional criterion of GATE score (obtained at some point of time in the past) in the respective disciplines or fellowships such as JRF/UGC/NET/CSIR/KSCSTE etc. or qualification in any other national level tests as specified by the GoI order* is also mandatory.

Candidates should possess minimum 60% marks (CGPA 6.5/10) or equivalent **both** in Bachelors and Masters degrees [For SC/ST/PWD candidates 55% mark (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees].

Candidates applying for External and Part-time scheme of registration do not require additional eligibility criteria such as GATE Score or UGC/CSIR/NBHM/NET/JEST/KSCSTE fellowship.

For those who are qualified to receive fellowships from external agency, the amount of fellowship shall be as per norms of the Funding agency.

VI. Faculty of Management Studies:

Candidates should possess minimum 60% marks (CGPA 6.5/10) or equivalent **both** in Bachelors and Masters degrees in a relevant area from an Institution recognized by UGC/AICTE [For SC/ST/PWD candidates 55% mark (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees]. Candidates shall be required to have passed both the bachelors and Masters degrees in regular full time.

In addition, the candidates should have a Valid UGC/NET/CSIR/JRF fellowship in the relevant areas tenable from the current year.

Candidates who have master's degree in engineering and technology with GATE score, an additional criterion of GATE score (obtained at some point of time in the past) in the respective disciplines or fellowships such as JRF/UGC/NET/CSIR//KSCSTE etc. or qualification in any other national level tests as specified by the GoI order* is also mandatory

Candidates applying for External and Part-time scheme of registration do not require additional eligibility criteria such as GATE Score or UGC/CSIR/NBHM/NET/JEST/KSCSTE fellowship.

For those who are qualified to receive fellowships from external agency, the amount of fellowship shall be as per norms of the Funding agency.

DIRECT PH. D FOR BE/B. TECH. GRADUATES

Candidates with B.E./ B. Tech. or equivalent with 8.5 CGPA on a 10-point scale or 80% Marks [For SC/ST/PWD candidates, 8 CGPA on a 10-point scale or 75% Marks] are eligible to apply for direct Ph. D admission **within 5 years after obtaining the qualifying degree.**

An additional criterion of GATE score (obtained at some point of time in the past) in the respective disciplines or fellowships such as JRF/UGC/NET/CSIR/KSCSTE etc. or qualification in any other national level tests as specified by the GoI order* is also mandatory.

For those who are qualified to receive fellowships from external agency, the amount of fellowship shall be as per norms of the Funding agency.

Direct Ph.D. programme is applicable only to Engineering Departments.

Candidates Holding Degrees From Foreign Universities:

Candidates holding degrees from foreign universities should produce a certificate stating that the degrees of the candidates have been recognized and approved by the Association of Indian Universities (AIU)/ Commonwealth Universities/International Association of Universities (IAU)/Accredited Universities as equivalent to the corresponding Indian degrees for the purpose of higher studies.

However, applications with degrees from well reputed foreign institutions will be considered by an expert committee constituted in this regard.

* GoI order: GoI order No. F. No. 33 – 1/2019 – TS.III dated 1st February 2019 by the Ministry of Human Resource Development, Department of Higher Education, on the "Revision of emoluments and guidelines on service conditions for research personnel engaged in R&D programme of the Central Government Departments/Agencies".

SELECTION OF CANDIDATES

The admission to Ph.D. Programmes will be through an admission process as decided by the respective Department/School, provided the candidates satisfies the minimum eligibility criterion as detailed above.

SALIENT FEATURES OF Ph.D. PROGRAMMES:

Ph.D. Programmes of the Institute are structured around a certain minimum number of theory courses, which have to be passed by the scholars, a comprehensive viva-voce examination, a pre-Ph.D. examination and a Thesis work, which will be examined by a Thesis Board and an Oral Board. Only on the basis of the successful completion of all the Graduation Requirements, a scholar will be awarded Ph.D. degree by the Board of Governors of the Institute based on the recommendation of the Senate.

Semester Registration

Every scholar whether working on Full Time or Internal or External or Part-time registration scheme will have to **register every semester till the submission of the thesis**, by payment of tuition and other fees as applicable, on the date announced for registration. Generally, registration for Monsoon semester will be in July/August and Winter semester in December/January.

Course Work and Thesis Work Requirements

Each scholar admitted to Ph.D. programme must necessarily earn a certain minimum number of credits through course work and research work as given in the table below:

Minimum qualification at the time of admission	Minimum Credits requirement	Minimum period for thesis submission		Maximum period for thesis submission	
		Full-time	Internal, External & Part-time	Full-time	Internal, External & Part-time
M.Tech./ M.Arch. / M.Plan.	12*	30 months/ 5 Semesters	36 months/ 6 Semesters	5 years	7 years
M.Sc./M.A	15*	30 months/ 5 Semesters	36 months/ 6 Semesters	5 years	7 years
B.Tech	30*	48 months/ 8 semesters	NA	7 years	NA

* In addition to these credits, every research scholar should credit a course on Research Methodology and secure a pass.

All research scholars will have to credit all the courses prescribed for study and obtain a minimum letter grade of C in each subject and must obtain at least an overall CGPA of 7.0. **The minimum residential requirement for External and Part-time Scheme Scholars is one semester**.
Monitoring the Work and Progress: Each research scholar will be assigned a Supervisor (Not more than two) by the Head of the Department. The work and progress of the scholars will be monitored by a Doctoral Committee specially appointed for each scholar. Only with the approval of the Doctoral Committee, the courses of study shall be prescribed.

A research scholar shall appear before the Doctoral Committee minimum once in every year for progress evaluation. Progress evaluation meetings of the Doctoral Committee will be convened by the guide. Research scholar shall submit a report of his/her work completed; to the DC members and make a presentation on the progress of his/her work in the DC meeting. If the progress of the

research scholar is not satisfactory, the Doctoral Committee shall record the reasons for the same and warn the research scholar and suggest corrective measures. If the performance of scholar is still not satisfactory in the following semester/year, DC may recommend suitable actions including cancellation of registration.

The progress of the research scholar will be categorized as Very Good/ Good/ Satisfactory/ Unsatisfactory by the Doctoral Committee and recorded in the progress evaluation report. The research scholar is free to publish the results of his/her research work with the consent of his/her guide. Patents, if any, based on his/her contributions shall be applied by the guide as per the Institute rules. The guide (if necessary after convening DC) shall evaluate the progress of the scholar in the research any time during the programme.

HoD will grant permission to the scholar for registration to every semester based on the recommendation of the guide(s)/DC.

Eligibility for the Award of Degree: The Ph.D. thesis submitted by the scholar will be evaluated by two external examiners, one from India and another from abroad, both being experts in the concerned area of the research. On receipt of satisfactory thesis evaluation reports from both the examiners, an Oral Examination Board will be constituted by the Chairman Senate for the conduct of the thesis defense /oral examination. The members of the Board will include one of the external examiners, thesis supervisor(s) and another examiner appointed by the Chairman of the Senate with the Head of the Department (if he is a guide then the former Head) as Chairman. The scholar will be declared eligible for the award of the degree only if the Oral Examination Board recommends the same after successful defense of the thesis and has completed other requirements as per the Ph.D. regulations.

Graduation Requirements: All Ph.D. scholars irrespective of the type of registration will have to complete the following requirements for Graduation:
- Credited the minimum number of theory courses prescribed and earned the minimum CGPA stipulated
- Successfully completed the Comprehensive Viva-Voce Examination
- Presented a Work on Account report and completed the Pre-Ph.D. Examination
- Successfully presented an Open Defense of his/her thesis
- Obtained positive recommendations both from the external examiners and the Oral Examination Board

Financial Assistance

Half time Research Assistantship (HTRA) is available for a few full-time research scholars who are not receiving any financial support/ scholarship from other Agencies or State or Central Governments, subject to the availability as stipulated by Ministry of Education (MoE), Govt. of India (GoI). They are required to assist the Department in the academic work for at least 8 hours per week as per guidelines issued by the MoE, in addition to satisfying other conditions for the award/renewal of the fellowship. The award and renewal of the assistantship/scholarship is as per the guidelines reissued by GoI, from time to time.

FEE STRUCTURE

Fee structure for the Ph. D Programme 2021-22 admissions are given below.

Fee category	All Open, OBC, SC, and ST Candidates	
Onetime fee at the time of admission		
Caution Deposit	1,500	
Admission Fee Library	300	
Fee Matriculation Fee	1,500	
Sports Affiliation Fee	150	
Student Welfare Fee	450	
Association Fee	450	
	1,150	
Total (a)	**5,500**	
	Monsoon Semester 2021-22	**Winter Semester 2020-21**
Tuition Fee	7,500*	7,500*
Development Fee	1,125	1,125
Registration Fee	300	300
Exam Fee	750	750
Students Group Fee	900	-
Other Fee	300	-
Amenities Fee	450	-
Magazine Fee	150	-
Medi.Claim**	643	-
NASA Subscription	-	-
Total (b)	**12,118**	**9, 675**
Fee to be paid during the timeof Admission Total (a) + (b)	**Rs. 17,618/-**	

* Nil for SC/ST students   **   Policy amount may vary year to year.

Tuition Fee may vary as per the directives of Ministry of HRD, Government of India from time to time. The present tuition fee is as per MHRD Order F No. 33-4/2014-TS.III dated 5th May, 2014 and subsequent clarifications under reference F No. 28/2013/TS.III dated 21st October, 2014. Other fees are as determined by the Institute as per provision of Statute No. 37(i) (b). Refund of fee is as per the institute refund policy.

HOW TO APPLY?

1. Apply online using the following link:
   http://www.dss.nitc.ac.in/mtechapp/phd/frmLogin.aspx

2. Register with your e-mail id and mobile number for creating a login in the online portal.
3. Before login, keep the soft copy of the following documents ready with you.
   a. Degree certificates and consolidated mark list (If consolidated mark list is not available semester wise/ year wise mark lists combined in a single pdf file) (Maximum of 800 kB).

   OR

   A certificate from the Head of the Institution stating that he/she has appeared/appearing for the final semester examination (for candidates who are

appearing for their final examination and are awaiting results)

b. Proof of National Level Eligibility Tests/Fellowships (GATE/ UGC/ CSIR/ NBHM/ NET/ JEST/KSCSTE etc.)

c. Recent PHOTOGRAPH (Maximum of 120 kB)

d. Online fee payment receipt

e. Aadhaar Card

f. First page of the research publications in Journals and Conferences

g. For candidates belonging to OBC-NCL category candidate, Community Certificate, from a competent authority (not below the rank of Tahsildar) indicating the status regarding Creamy Layer based on financial year ending March 31, 2021 (should have been issued on or after 1st April, 2021).

h. For candidates belonging to SC/ST category Community Certificate, from a competent authority (not below the rank of Tahsildar).

i. Certificate for Economically Weaker Sections, if applicable, issued by the competent authority (not below the rank of Tahsildar) indicating the financial status for the financial year ending March 31, 2021 (should have been issued on or after 1st April, 2021).

j. Certificate from the Medical Board of Govt. Medical Colleges/Dist. Head Quarters Hospitals, in the case of Physically Handicapped candidates

k. No objection certificate duly signed by the Head of the institution, in case of part-time candidates. (In case of internal candidates, a No Objection Certificate from the Head of the department is required).

4. Candidates who wish to apply to multiple departments or schools (subject to fulfilling the eligibility criteria) should register for each department and pay the application fee separately.

5. Payment has to be made through State Bank Collect (online) by following link (https://www.onlinesbi.com/sbicollect/icollecthome.htm?corpID=365553) using Net Banking/Credit Card/SBI Challan (by cash) by choosing the payment category as **2021-22 PHD APPLICATION FEE MONSOON SEMESTER**. After successful completion of the fee payment, save the fee payment receipt for uploading in the application form. **Application fee is as follows (Rs. 600/- for Open/EWS and OBC candidates, Rs. 300/- for SC/ST/PWD candidates). APPLICATION FEE IS NON- REFUNDABLE.**

6. To view 'the application to be printed', you require an Adobe Acrobat Reader 6 or higher

In the case of external candidates following certificates are to be produced at the time of interview.

i. Sponsorship certificate, duly filled by the sponsoring authority on their letter head, with the seal of the sponsoring authority in the prescribed format.

ii. Details regarding the research facilities available at his/her organization for his/her research work

iii. Certificate from the head of the institute/competent authority stating that these facilities will be made available to him/her if required for carrying out research and that he/she will be granted leave for completing the course/residential requirements at NIT Calicut as per Ph.D. regulations of the Institute

iv. Bio-Data of the prospective supervisor who would supervise the candidate's work at his/her organization

v.   Prospective supervisor's consent letter.

The formats of all required certificates are available in our website.

http://nitc.ac.in/index.php/?url=admission/index/35

The list of short listed candidates for the selection process of the admission to the Ph.D. Programme will be available in our website in due course. **No separate call letter for the selection process will be dispatched.**

INSTITUTE REFUND RULE:

Refund of fee shall be permitted to a student who leaves the academic programme till such dates that will permit the Institute to fill the vacancy so created through subsequent seat allotment process of the Institute. In such cases, all fee and deposits paid at the time of admission will be refunded after a deduction of processing fee of Rs. 5000/- (Rupees Five Thousand only). No fee other than Caution Deposit shall be refunded to students who withdraw admission after such stipulated dates.

IMPORTANT DATES

Events	Dates
Activation of the website for submission of online application	**9th April 2021**
Last date for submission of completed application form through on-line	**15th May 2021 (5.00 PM)**
Publishing the list of short listed candidates for the selection process, in the website	**7th June 2021 (Tentative)**
Selection process for short listed candidates	**To be announced later**
Publishing list of selected candidates for provisional admission, in the website	
Date of Admission and Reporting for the Programme	

LEGAL JURISDICTION

All disputes pertaining to the counselling and admission for the Ph.D. programme 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 in 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 its students/any other person for such changes, additions, omissions or errors, no matter how they are caused.

Address for Correspondence

Chairperson – PG Admissions
National Institute of Technology Calicut
NIT Campus P.O. Calicut 673 601
Kerala, India
Telephone: **0495 2286119**
E-mail: pgadmissions@nitc.ac.in
Website: http://www.nitc.ac.in/index.php/?url=admission/index/35

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