NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

NIT CAMPUS POST, CALICUT, KERALA - 673 601, INDIA

Information Brochure for Ph.D. Programmes July 2014
GENERAL INFORMATION

ABOUT THE INSTITUTE

National Institute of Technology Calicut (NITC) is one of the premier national institutions for technical education in India. This was formerly known as Calicut Regional Engineering College. NITC is a technical institution of national importance set up by an Act of Parliament (Act 29 of 2007). NITC offers academic programmes leading to B.Tech., B. Arch., M.Tech., MCA, M.Sc, MBA and Ph.D. degrees in the appropriate disciplines. NITC is engaged in a wide spectrum of activities covering research and development, industrial consultancy, continuing education and faculty & staff development.

VISION

International standing of the highest caliber

MISSION

To develop high quality technical education and personnel with a sound footing on basic engineering principles, technical and managerial skills, innovative research capabilities and exemplary professional conduct to lead and to use technology for the progress of mankind, adapting themselves to the changing technological environment with the highest ethical values as the inner strength.

LOCATION

Set in a picturesque landscape at the foothills of the Western Ghats, NITC is located about 22 km north-east of Calicut city in the state of Kerala, India. It stretches over a length of about 1.5 km along the Calicut-Mukkam road, extending over an area of approximately 120 hectares. The nearest airport is Calicut which is about 45 km away from the campus.

INFRASTRUCTURE FACILITIES

The Institute has well equipped library, computer centre, seminar halls, lecture hall complexes, various laboratories in different departments, workshops, hostels for accommodating students, health care centre and adequate facilities for sports, games and co-curricular activities. The main computer centre has all the relevant software packages and latest computers with internet facilities. To provide service to the campus residents, State Bank of India, Post Office, Canteen & Co-operative Store are also functioning in the campus.

STUDENT SUPPORT SERVICES

The Institute has Training and Placement department that looks after the training needs of the students, their placement of jobs on graduation. An Entrepreneurship Development Cell promotes the students for self-employment. A Technology Business Incubator (TBI) with the assistance from Department of Science and Technology, Government of India is being established. TBI helps in incubating knowledge based start-ups into sustainable business with single window system.

DISTINGUISHED ALUMNI

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

ADMISSION TO Ph.D. PROGRAMMES

INTRODUCTION

Facility for doing research leading to Ph.D. degree is available in the following departments /Schools:

Ph.D. PROGRAMMES

Department/School	Code
Architecture	AR
Biotechnology	BT
Chemical Engineering	CH
Chemistry	CY
Civil Engineering	CE
Computer Science and Engineering	CS
Electrical Engineering	EE
Electronics & Communication Engineering	EC
Management Studies	MS
Mathematics	MA
Mechanical Engineering	ME
Nanoscience and Technology	NS
Physics	PH

Admission to the Ph.D. programmes will be in the following schemes: (i) Full-time (FT) (ii) Part-time (PT) (iii) Internal (IN) and (iv) External (EX).

Ph.D. fellowships are available for candidates under Full-time scheme.

For the Part-time and External schemes of registration, the applicant must be an 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 under Part-time scheme will have to submit no objection certificate from the Head of the institution.

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 Internal (IN) scheme is available only to full time/contract faculty member of NITC. 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. **Those who are working on research projects in which he/she is working** *should be in force for at least two or more years.* 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 PhD 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 work if the Doctoral Committee of the research scholar recommends the same.

ELIGIBILITY & ACADEMIC REQUIREMENTS FOR ADMISSION TO Ph.D. 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:

The maximum age for admission to Ph.D. programme is 50 years.

I. Faculty of Engineering:

M.Tech. Degree in Engineering/Technology in the appropriate branch of study with first class or minimum 60% marks (CGPA 6.5/10) [For SC/ST candidates, the minimum mark is 55% (CGPA 6.0/10)].

Candidates shall be required to have passed the **four-year regular full time** B.E./B.Tech. Degree in an appropriate branch with minimum 60% marks (CGPA 6.5/10) in aggregate in the qualifying examination. [For SC/ST candidates 55% marks (CGPA 6.0/10)]. Candidates under lateral entry should have passed the three year diploma in engineering with minimum 60% marks [For SC/ST candidates 55% marks (CGPA 6.0/10)].

II. Faculty of Architecture:

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

Candidates should possess First Class (60%) or equivalent **both** in Bachelors and Masters degrees. For SC/ST candidates 55% (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees.

III. Faculty of Nanoscience & Technology:

M.Tech. Degree in any discipline of Engineering/Technology/Nanoscience & Technology with first class or minimum 60% marks (CGPA 6.5/10) [For SC/ST candidates, the minimum mark is 55% (CGPA 6.0/10)].

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

Master's degree in Chemistry/Physics/Life science/Nanoscience and Technology with first class or minimum 60 % marks (CGPA 6.5/10) or equivalent, [for SC/ST 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 applying for External and Part-time scheme of registration do not require GATE score or UGC/CSIR/NBHM/NET/KSCSTE fellowship.

IV. Faculty of Biotechnology:

M.Tech. Degree in Biotechnology/Life Science with first class or minimum 60% marks (CGPA 6.5/10) [For SC/ST candidates, the minimum mark is 55% (CGPA 6.0/10)].

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

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

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

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

Master's degree in Mathematics/Statistics/Chemistry/Physics/Electronics/Computer Science &Applications/ Nano Science & Technology/ Material Science/ Photonics OR M.Tech in relevant disciplines related to the major areas of research available in the department with first or minimum 60% marks (CGPA 6.5/10) or equivalent, (for SC/ST 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.

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

Candidates should possess First Class (60%) or equivalent **both** in Bachelors and Masters degrees. For SC/ST candidates 55% (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees.

VI. Faculty of Management Studies:

Post graduate degree in relevant area with a minimum of first class or equivalent grade from an institution recognized by UGC/AICTE. [For SC/ST candidates the minimum shall be a second class or equivalent grade). 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, OR applying for internal/external/part-time scheme of registration, OR have managerial experience for not less than five years do not require UGC/NET/CSIR/JRF fellowship.

Candidates should possess First Class (60%) or equivalent **both** in Bachelors and Masters degrees. For SC/ST candidates 55% (CGPA 6.0/10) or equivalent **both** in Bachelors and Masters degrees.

CANDIDATES HOLDING DEGREES FROM FOREIGN UNIVERSITIES:

Candidates holding degrees from foreign universities have to 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.

SELECTION OF CANDIDATES

The admission to Ph.D. Programmes will be on the basis of written test and/or interview, by the respective Department/School.

SALIENT FEATURES OF Ph.D. PROGRAMMES

Ph.D. Programmes of the Institute are structured around 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 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 no. of courses to be credited	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.Plng.	4	30 months/ 5 Semesters	36 months/ 6 Semesters	5years	7 years
M.Sc./M.A	5	30 months/ 5 Semesters	36 months/ 6 Semesters	5 years	7 years

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 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 and the Doctoral Thesis approved for submission. The work and progress of the scholars in each semester will be assessed by the Doctoral Committee and the thesis supervisor and only on

satisfactory progress as approved by the Doctoral Committee, the scholars will be allowed to continue in the programme.

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 REQUIREMENTS[**]

(a) Institute Fee

(a) Institute Fee: Fee Category	All Open, SC/ST & Sponsored Candidates
Tuition Fee (per semester)	Rs. 17,500
Caution Deposit	Rs. 1,000
Examination Fee	Rs. 800
Other Fees:	
Admission Fee — 200	
Library Fee — 1000	
Development Fee — 1500	
Students Group — 600	
Other Fees — 200	
Matriculation & Recognition — 100	Rs. 5,737
Sports Affiliation Fee — 300	
Students Welfare — 300	
Amenities Fee — 300	
Magazine Fee — 75	
SJET, PTA, RECCA, Dept. Assn. & Co-op.Share — 762	
Registration Fee — 400	
*Annual premium for Mediclaim — 265	
# Total amount to be paid at the time of admission:	Rs. **25,302/-**

* Mediclaim amount may change

Fees likely to be changed

(b) Hostel Fees - For all categories of candidates:

One Time Fee (Hostel Staff Welfare Fund,
    Student Amenities/Welfare Fund, etc.)   : Rs. 2,000/-
Caution Deposit   : Rs. 11,000/-
Total amount to be paid at the time of admission   : **Rs. 13,000/-**
    Hostel room rent and mess charges payable every month extra.

** Financial Requirements are subject to change.

FINANCIAL ASSISTANCE

A few research fellowships are available to full time research scholars who are not receiving any financial support/ scholarship from other Agencies or State or Central Governments. They are required to assist the Department in the academic work for at least 8 hours per week as per guidelines issued by the Ministry of Human Resources and Development, Govt. of India, in addition to satisfying other conditions for the award /renewal of the fellowship.

The present rates of fellowships are as follows:

Department/ Discipline	I & II Years	III & IV Year
Ph.D. in Engineering	Rs 18,000/ p.m	Rs. 20,000/p.m
Ph.D. in Sciences & Management Studies	Rs 16,000/ p.m	Rs. 18,000/p.m

This facility will not be available to UGC/CSIR/NBHM/NET/JEST etc. Fellowship holders. However, those who are awarded UGC/CSIR/NET/NBHM/ JEST etc. can enjoy the Doctoral Fellowships once admitted to the Ph.D. programme.

MAJOR AREAS OF RESEARCH

ARCHITECTURE

- Assessment of Building Performance for Thermal Comfort
- Energy efficiency in Buildings
- Sustainable Architecture Urban Development
- Landscape Design and Interior Design
- Urban Design
- Architectural Conservation
- Conservation of Historic Monuments
- Law Cost Housing Materials/Techniques
- Earth Architecture & Green Buildings
- Traditional Architecture
- Standardization of Traditional Construction Materials & Techniques
- Masonry Materials & Techniques
- Resource Mapping for Local bodies
- Watershed Planning
- Remote Sensing & GIS Application in Planning
- Coastal Zone Planning and Management
- Project Management of Buildings
- Urban and Regional Development & Planning
- Transportation Planning
- Environmental Planning and Impact Assessment
- Planning Information System Development
- Disaster Management
- Housing Policies & Management
- Community Housing and Settlement Planning
- Architectural Design of all Types of Buildings
- Management of Building Projects
- Traditional Building Materials and Construction Techniques
- Study of Acoustics and Lighting in Buildings
- Costal Area Development Planning
- Urban Infrastructure Planning and Impact Assessment

BIOTECHNOLOGY

- Gene Regulation
- Molecular Genetics
- Protein Folding
- Protein Engineering
- Genetic Engineering

- Biomodeling and Drug Design
- Plant Molecular Biology
- Neurobiology
- Immuno –Technology
- Bio-separation Techniques
- Computational Fluid Dynamics
- Enzyme Technology
- Cell Biology
- Cancer Research

CHEMICAL ENGINEERING

- Air and Water Quality Modeling
- Bio-separation Techniques
- Computational Fluid Dynamics
- Effluent Treatment using inverse fluidized Bed Reactor
- Heat Transfer
- Mass Transfer
- Membrane Separations
- Micro-fluidics
- Modeling and Simulation
- Multiphace Flow
- Petroleum Engineering
- Polymer Technology
- Process Control
- Renewable Energy
- Separation Techniques
- Safety Engineering
- Wastewater Treatment
- Adsorption
- Environmental Engineering
- Biochemical Engineering

CHEMISTRY

- Organic & Bio organic Chemistry
- Theoretical and Computational Chemistry
- Waste Management & Green Fuel Production
- Porphyrin Metal Organic Frameworks (MOFs) and its Catalysis
- DNA binding & Cleavage studies using Metalloporphyrins
- Surface Chemistry
- Soft Materials
- Development of Polymer Products
- Pi- conjugated Macromolecules for optical applications
- Dipyrromethanes and its functionalisation
- Supramolecular Chemistry of metalloporphyrins
- Multiphase Polymer Systems, Nanocomposites and Thermoplastic Elastomers
- Biomaterials
- Polymer Nano-composites
- Transport Process through Membranes
- Nanostructured Materials
- Flourescent Probes for Bio applications
- DNA binding Metal Complexes
- Cellulose Chemistry
- Porphyrins and metalloporphyrins

CIVIL ENGINEERING
- Planning (Physical Environment & Infrastructure)
- Architectural Design of Buildings

- Structural Design and Detailing
- Design for Building Services
- Foundation Engineering
- Environmental Engineering
- Traffic and Transportation Planning
- Offshore Structures
- Wave Hydrodynamics
- Water Resources Engineering
- Planning and Design of Harbours
- Earthquake Engineering
- Dynamics of Structures
- Rehabilitation of Structures
- Computational Structural Mechanics
- Construction Project Management
- Construction Risk Assessment

COMPUTER SCIENCE & ENGINEERING

- Algorithms and Complexity
- Bioinformatics
- Cloud Computing
- Compilers & Programming Languages
- Computer Architecture
- Database Management Systems
- Distributed Computing
- Image Processing
- Information Security
- Middleware
- Operating Systems
- Software Engineering

ELECTRICAL ENGINEERING

Power & Energy Systems:

- Power Quality/FACTS/Custom power devices
- Power System Economics, Operation and Control
- Power System Stability & Reliability
- Protection Systems
- Renewable Energy/ Distributed Generations
- Smart Grid Engineering
- High Voltage Engineering
- Nano Technology Application in Power Systems

Electrical Machines & Power Electronics:
- BLDC Machines & Applications
- Electrical Drives and Control
- Industrial Electronics
- Switched Mode Power Supplies/ UPS Systems

Control and Signal Processing:
- Linear/ Non-linear/ Robust Control Systems
- Adaptive and Optimal Control
- Signals & Systems
- System Modeling and Identification
- DSP Based Systems & Applications
- Bio-signal Processing
- Biomedical Applications
- Multi-variable Sliding Mode Control and Robotics

Industrial Power & Automation:

- Energy Efficiency Auditing & Management
- Load Modeling Control & Management
- Cogeneration & Industrial Micro Grids
- SCADA/Distributed Control System Application
- Process Modeling Control & Automation
- Industrial Power Optimization
- Power Electronic Devices & Converters

ELECTRONICS & COMMUNICATIONS ENGINEERING

- Digital Signal Processing
- Speech and Audio Processing
- Digital Filter Banks
- Image and Video Processing
- Signal Theory
- Multirate Signal Processing
- Compressive Sensing
- Communications
- Communication Networks
- Wireless Communications
- Wireless Networks
- Secure Communications
- Computer Communication Networks
- OFDM and MIMO systems
- VLSI and Micro - Electronics
- Multimedia Encryption
- Cryptography
- Micro Electro Mechanical Systems (MEMS/NEMS)
- Nano Electronics
- Semi Conductor Devices / Technology

MATHEMATICS

- Algebraic graph Theory
- Applied Statistics
- Computational Fluid Dynamics and Scientific computing
- Fractal Geometry
- Functional Analysis
- Fuzzy Graph Theory and Fuzzy Topology
- Graph Theory
- Multiset Theory
- Numerical Analysis and Scientific Computing
- Operator Theory
- Optimization Techniques
- Stastical Inference
- Stochastic Processes
- Time Series Analysis
- Reliability of Systems
- Optimization Problems
- Commutative Algebra
- Operator Algebra
- Software Development

MECHANICAL ENGINEERING

- Stress Analysis and Vibrations
- Production Engineering
- Machine Tool Design
- Refrigeration and Air Conditioning

- Industrial Engineering
- System Modelling and Simulation
- Materials Management
- Plant Design
- Group Technology & Cellular Manufacturing
- Financial Management
- Material Requirements Planning
- TQM and ISO 9000
- Residual Stresses
- Gas and Liquid Chromatography
- Thermal Engineering and I. C. Engines
- Atmospheric Pollution Control
- Renewable Energy Systems
- Solar Energy Utilization
- CAD/CAM
- Robotics
- Mechatronics
- Metal Casting, Joining and Forming
- Powder Metallurgy
- Tribology
- Bio-Mechanics
- Co - ordinate Metrology
- Micro - Machining
- CNC Machining
- Energy Management
- Metal Cutting
- Computer Aided Inspection
- Machining of Composite Materials
- Rapid Prototyping
- Biomass Utilization
- Fuel Cell

MANAGEMENT STUDIES

- Business Analysis : Research and Systems
- Financial Management
- Human Resource Management
- Marketing Management
- Production and Operations Management
- Strategic Management
- Humanities and Social Sciences

SCHOOL OF NANO SCIENCE AND TECHNOLOGY

- Discrete Computation: Molecular Dynamics
- Nanomaterials and their applications
- Nanobiotechnology
- Nanosensors
- Thin films - fabrication and applications
- Liquid Crystal Display
- Polymer Technology
- Nano Characterization & Fabrication
- Nanofluids
- Interferometry
- Nonvolitile Memory
- Micro Electro Mechanical System (MEMS)
- Nano Electro Catalysis

PHYSICS

- Unconventional Electronics & Photonics:
  Organic, Molecular & Hybrid Electronics
- Plastics Solar Cells & LEDs
- Polymer Memories & Actuators
- Fuel cells & Super Capacitors
- Photonic Band Gap Materials
- Advanced Materials
- Conducting Polymers
- Super Conductor/ Polymer Composites
- Semi Conducting Glasses & Polymer Nano Composites
- Computational Physics: Device modeling & Simulation
- Electronic Structure
- Low Dimensional Systems
- Electron Spin Resonance
- Laser and Nonlinear Optics, Nano Photonics
- Spectroscopy & Atmospheric optics
- Graphene Photonics
- Critical point phenomena
- Non linear dynamics
- Semi conductor nano structures

CENTRE FOR BIO - MECHANICS

- Development of External Fixators
- Kinematics and Kinetics of Wrist
- Joints under Normal and Abnormal Conditions
- Correction of Clubfoot Deformities
- Study on Visco-elastic Properties of Human Skin
- Health Related Physical Fitness Norms
- Development of Artificial Limbs for Physically Handicapped patients with Amputations

HOW TO APPLY?

1. Apply online. The instructions for online submission of application are available in the Institute website.

2. Before you start filling-in the online application form, keep the following documents ready with you
   - 10th class certificate
   - Mark list of the under graduate and post graduate degree course and diploma (for lateral entry candidate)
   - Demand Draft towards application fee

3. The online application form is best viewed with Internet Explorer 9 or lower version. On submission of online application, a printout of the application has to be taken. To view 'the application to be printed', you require an Adobe Acrobat Reader 6 or higher.

4. Candidates applying for admission to different departments / schools will have to write the corresponding codes in the appropriate columns in the Application Form. If a candidate is applying for more than one department/school, submit separate application with DD.

5. A recent passport size photograph is to be affixed on the Application Form. The photo in the application should be self-attested. Additional six copies of the same photograph and one stamp size photograph should be produced at the time of counselling/admission.

6. **Demand Draft towards application fee (Rs. 600/- for Open and OBC candidates, Rs. 300/- for SC/ST candidates) drawn in favour of "Director NIT Calicut" payable at State Bank of India, NIT Calicut Branch (Code No. 2207) is to be enclosed.**

7. The following documents arranged in the order given below should be enclosed along with the application (whichever is applicable):
   i. Self attested copy of valid GATE score or UGC/CSIR/KSCSTE/NBHM/NET/JEST fellowship in the

relevant areas tenable from the current year, if applicable.

ii. Self attested copy of mark lists & degree certificate of the qualifying examination.

iii. Course completion certificate from the Head of the Institution in the prescribed format and attested copies of mark lists, in the case of candidates who have appeared or will be appearing in the qualifying examination. This is also applicable to candidates who have not procured the provisional/degree certificate.

iv. Self attested copy of Under Graduate Degree certificate and Mark sheets

v. Self attested copy of proof of date of birth

vi. Self attested copy of community certificate in the case of SC/ST candidates from a competent authority (not below the rank of a Tahsildar).

vii. Self attested copy of community certificate in the case of OBC candidates from a competent authority (not below the rank of a Tahsildar) indicating that the candidate does not belong to the Creamy Layer for the financial year ending 31st March 2014.

viii. Self attested copy of experience certificate.

ix. Research Proposal (use separate single sheet, 500 words approximately)

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

xi. The following additional documents, are necessary in the case of external candidates: (a) Details regarding the research facilities available at his/her organization for his/her research work (b) 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 (c) Bio-Data of the prospective supervisor who would supervise the candidate's work at his/her organization (d) Prospective supervisor's consent letter.

xii. No objection certificate duly signed by the Head of the institution, in the case of part-time candidate.

(In the case of internal candidates, a No Objection Certificate from the Head of the department).

xiii. Self attested copy of list of AICTE recognized short-term courses attended.

xiv. Self attested copy of all research publications in journals and conferences.

xv. Demand draft towards application fee as per the category of the candidate.

8. **Printout of the Application with all the above enclosures should be sent (in A4 size cover) by Registered Post/ Speed Post so as to reach the Chairperson – PG Admissions, National Institute of Technology Calicut, NIT Campus PO, Calicut - 673 601, Kerala on or before 15-05-2014.**

9. The status regarding receipt of application with demand draft & other documents at NIT Calicut and eligibility for test/ interview will be available in our website in due course. **No separate call letter for test/ interview will be dispatched.**

IMPORTANT DATES

Events	Dates
Availability of Online Application in the institute website	7th April to 9th May 2014
Last date for receipt of Completed Applications in printed form	15th May 2014
Test / Interview	12th & 13th June 2014

Schedule for Test /Interview for the various Departments	
12th June 2014	13th June 2014
Chemical Engineering (CH)	Architecture (AR)
Computer Science and Engineering (CS)	Biotechnology (BT)
Electrical Engineering (EE)	Chemistry (CY)
Mathematics (MA)	Civil Engineering (CE)
Mechanical Engineering (ME)	Electronics & Communication Engineering (EC)
Physics (PH)	Management Studies (MS)
	Nanoscience and Technology (NS)

Date of Admission and Reporting for the Programme[*]	27th June 2014

* The candidate is to be present in the department from the date of reporting onwards.

LEGAL JURISDICTION

All disputes pertaining to the counselling and admission for the Ph.D. programme of NIT Calicut shall fall within the jurisdiction of Calicut, 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

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Kerala, India
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Website: http://www.nitc.ac.in/index.php/?url=admission/index