



# NATIONAL INSTITUTE OF TECHNOLOGY CALICUT

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

## Information Brochure for M.Sc. Programmes 2014-15

### ABOUT THE INSTITUTE

National Institute of Technology Calicut (NITC) is one of the premier national institutions for technical education in India. NITC is a technical institution of national importance set up by an Act of Parliament, namely, the National Institute of Technology Act 2007. NITC offers academic programmes leading to B.Tech., B. Arch., M.Tech., MBA, M.C.A, M.Sc. and Ph.D. degrees in the appropriate disciplines. NITC has well-qualified faculty and dedicated supporting staff. Apart from teaching, 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 about 3000 students, health care centre and adequate facilities for sports, games and co-curricular activities. The Institute has a state-of-the-art library consisting of digital library, "NALANDA" (Net work of Automated Library AND Archives) and a conventional library of books, journals and bound volumes. The main computer centre, which is open 24 hours a day, 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.

### CO-CURRICULAR ACTIVITIES

Students' chapter of many professional bodies such as Computer Society of India (CSI), Indian Society for Technical Education (ISTE), Institute of Electrical & Electronics Engineers (IEEE) and Institution of Engineers (India) are functioning at NIT Calicut. In previous years, NITC won the best chapter award for CSI as well as ISTE. The Centre for Value Education provides students, a unique opportunity to engage in activities that promote human values. Social work is a part of curriculum. Students get opportunities to take part in cultural and other activities through a number of Clubs such as Literary & Debating Club, Industrial & Planning Forum, Nature Club, etc. operating under the Students Council. Students annually organize cultural festival *Ragam* and technical festival *Tathva* in which students from all over India participate.

### 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 and for partnership in industry. 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.

## HOW TO APPLY?

The application can be submitted ON-LINE through the institute website [www.nitc.ac.in](http://www.nitc.ac.in) on or before 02.05.2014. The printed data sheet obtained after uploading the application should be send to the **Chairperson PG Admissions, National Institute of Technology, Calicut, NIT Campus P.O., Calicut - 673601** to reach on or before 07.05.2014 with the necessary enclosures along with the demand draft of Rs 600/- for Open & OBC and Rs 300/- for SC/ST Candidates drawn in favour of THE DIRECTOR NIT CALICUT and payable at Calicut. Applications which are incomplete/ defective /received late will be rejected summarily and no correspondence will be entertained on such applications. The instructions for online submission of application are available in the online admission portal.

## WITHDRAWAL/ DISCONTINUATION OF PROGRAMME

Withdrawal/ Discontinuation of admission for all programmes during the process of Counselling will be as per the guidelines issued by the Institute from time to time. On joining the courses the student will be governed by the Institute rules for withdrawal/discontinuation. As per the rule in force, the fees paid by the students for their current and previous semesters of the programme will not be refunded and the caution deposit of Rs. 1000/- (Rupees one thousand only) will be adjusted against the processing fee of Rs. 1000/- (Rupees one thousand only), after clearing the liabilities if any.

## M.Sc. PROGRAMMES OFFERED

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

## ELIGIBILITY FOR ADMISSION TO M.Sc. PROGRAMMES

**M.Sc. Degree in Mathematics:** B.Sc. Degree in Mathematics/ Applied Mathematics/ Statistics or Three-main-system with Mathematics as one of the subjects with at least 60% marks (CGPA 6.5/10 or equivalent score). [For SC/ST candidates, 50% marks (or CGPA 5.5/10 or equivalent score)]

**M.Sc. Degree in Physics:** Bachelor's degree with at least 60% marks/ CGPA 6.5/10 or equivalent score, with **Physics** as main and **Mathematics** as a subsidiary subject **Or** Physics and Mathematics among the main subjects. [For SC/ST candidates, 50% marks or CGPA 5.5/10 or equivalent score].

**M.Sc. Degree in Chemistry:** Bachelor's degree with Chemistry (Main) with Mathematics as one of the subsidiaries **Or** Bachelor's degree through Physics, Chemistry, Mathematics (three-main-system), with at least 60% marks (CGPA 6.5/10 or equivalent score). [For SC/ST candidates, 50% marks (CGPA 5.5 /10 or equivalent score)].

Students appearing for final semester/year Bachelor's degree during the academic year 2013-14 can also apply provided their final semester/year marks are made available by 17th September 2014. Such candidates may be considered for **provisional admission**. Any candidate admitted provisionally, subject to his/her producing provisional certificate and mark lists as proof of having satisfied the eligibility criteria, shall have to discontinue the course, if he/she does not produce the provisional certificate and mark lists (satisfying the minimum requirements of marks / CGPA) on

or before 17th September 2014. Such candidates will not be eligible for any refund of fees paid by him/her. Provisional admission is not applicable to candidates who have failed in the qualifying examination and subsequently appeared for the supplementary examination.

### DISTRIBUTION OF SEATS FOR M.Sc. – 2014 ADMISSION

Sl. No	Dept.	Programme	Code	Quota of Seats								Total
				OP	OBC	SC	ST	PD				
								OP	OBC	SC	ST	
1	MA	M.Sc. Mathematics	MA62	10	5	3	2	-	-	-	-	20
2	PH	M.Sc. Physics	PH62	10	5	3	1	-	1	-	-	20
3	CY	M.Sc. Chemistry	CY62	9	5	3	2	1	-	-	-	20

**Abbreviations:**

OP – Open ; OBC – Other Backward Class ; SC – Scheduled Caste ; ST – Scheduled Tribe ; PD – Persons with Disability

Candidates may check the website ([www.ncbc.nic.in](http://www.ncbc.nic.in)) of the National Commission for Backward Classes, Govt. of India to ascertain from the Central List of Other Backward Classes whether they are entitled to seats reserved for the OBC category.

NITC provides 3% seats reservation for PD category as per Central Govt. rules.

### SELECTION OF CANDIDATES FOR M.Sc. PROGRAMMES

Selection of candidates is based on their performance in the Entrance Test/ Interview conducted by the institute.

#### Test/ Counselling/ Admission

Hall-Ticket/ eligibility for test/interview and call-letter for counseling/admission can be downloaded from the website after login using application number and date of birth. **No separate call letter will be dispatched.** All those who are called for counselling/admission will have to produce the original certificates and other documents. Admission is subject to satisfying the requirements and the call for Test/Interview/counselling does not guarantee admission. Candidates offered admission will have to remit the fees on the day of admission. Test/Interview/Counselling/Admission for M.Sc. programmes is scheduled to be conducted during June/July 2014.

### FINANCIAL REQUIREMENTS\*\*

#### Amount to be paid at the time of admission

##### (a) Institute Fee:

Fee Category	All Open, SC/ST & Sponsored Candidates
<b>Tuition Fee for M.Sc. (Per semester)</b>	Rs. 12,000
<b>Caution Deposit (Refundable)</b>	Rs. 1,000
<b>Examination Fee</b>	Rs. 800
<b>Other Fees:</b>	
Admission Fee	200
Library Fee	1000
Growth Fund (Development Fee)	1500
Matriculation Fee	100
Special Fee (Students Group)	600
Miscellaneous Fee (Other Fee)	200
Amenities Fee	300
Sports Amenities Fee (Affiliation Fee)	300
Training & Placement Fee (Students Welfare)	300
Magazine Fee	75
Association Fee [SJET, PTA, RECCA, Dept. Assn. & Co. Op. Share]	762
Registration Fee	400
*Annual premium for Medclaim	265
# Total amount to be paid at the time of admission	Rs. <b>19,802/-</b>

\* Medclaim amount may change.

# Likely to be reduced

**(b) Hostel Fee: For all categories of candidates:**

One Time Fee (Hostel Staff Welfare Fund, Student Amenities/Welfare Fund, etc.)	: Rs. 2,000/-
Mess Deposit (Refundable)	: Rs. 8,000/-
Furniture Deposit (Refundable)	: Rs. 3,000/-
Total Fees	: <b>Rs. 13,000/-</b>

Hostel room rent and mess charges payable every month extra.

\*\* Financial Requirements are subject to change.

Hostel accommodation is not available for PG & Ph.D. students at present. However, efforts will be made to provide temporary accommodation with limited facility within the campus subject to availability.

## **HIGHLIGHTS OF THE M.Sc. PROGRAMMES**

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

### **MATHEMATICS DEPARTMENT**

#### **M.Sc. Degree in Mathematics**

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

### **CHEMISTRY DEPARTMENT**

#### **M.Sc. Degree in Chemistry**

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

### **PHYSICS DEPARTMENT**

#### **M.Sc. Degree in Physics**

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

### FORMAT OF COURSE COMPLETION CERTIFICATE

(To be submitted by candidates appeared/appearing for final semester/year degree exam during the academic year 2013-14)

This is to certify that .....studying/studied in  
.....Discipline/specialization# has completed/  
will be completing the ..... semester/year regular full time ..... programme from the  
(Name of the Degree)  
UGC/AICTE recognised institute .....  
on..... and has passed with an aggregate mark of ..... percentage/CGPA up to and  
including .....semester/year.  
His/Her Character and Conduct are .....  
Place.....  
Date...../...../..... Office Seal Signature of the Head of the institute with seal

# Please specify the discipline/specialization and will be any one of the following: Mathematics, Applied Mathematics, Physics with Mathematics as subsidiary, Chemistry with Mathematics as subsidiary or (Mathematics, Physics, Chemistry three main system)

### IMPORTANT DATES (Tentative)

Events	Dates
Availability of online application form	24 <sup>th</sup> March 2014 to 02 <sup>nd</sup> May 2014
Last date for receipt complete Application form	07 <sup>th</sup> May 2014
Date of entrance examination	03 <sup>rd</sup> June 2014
Date of admission	25 <sup>th</sup> June 2014

### LEGAL JURISDICTION

All disputes pertaining to the admission for the M.Sc. programmes 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:

**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](mailto:pgadmissions@nitc.ac.in)

Website:

<http://www.nitc.ac.in/nitc/admission/index.htm>