

# FIVE DAYS NATIONAL WORKSHOP ON

## ALGEBRA AND ANALYSIS

(NWAA 2024)  
16-20, DECEMBER 2024

Hybrid Workshop for  
CSIR / GATE Aspirants



Organized by

DEPARTMENT OF MATHEMATICS  
NATIONAL INSTITUTE OF  
TECHNOLOGY  
TIRUCHIRAPPALLI – 620 015  
TAMIL NADU, INDIA

### THE INSTITUTE

The National Institute of Technology, Tiruchirappalli, (NITT), is an Institution of National Importance under the Ministry of Education (MoE), Government of India. The Institute is ranked no. 1 among the NITs, and 9th in the National Institutional Ranking Framework (NIRF). NITT is an autonomous co-educational technological institute, which offers Undergraduate Courses in ten branches and Post Graduate Courses in twenty-eight disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments. The Institute has a total campus area of 800 acres in Thuvakudi on the Trichy-Tanjore national highway.

### THE DEPARTMENT

The Department of Mathematics is one of the most distinguished departments in NITT. The department with 16 faculty members is actively involved in research and carrying out projects besides teaching. Applying multi-disciplinary research and teaching methods, the department strongly believes in finding mathematical solutions for various social-economic, technological and work-related processes and challenges. Since its inception, the department has been

moulding Ph.D. graduates to carry out challenging research problems which have wide ranging industrial and social implications. At present, 39 scholars are pursuing their research work in various fields of mathematics. The department has been offering M.Sc. Mathematics course since 2019-20 and B.Sc. B.Ed. course from this academic year. The department is being supported by DST-FIST for five years from 2021.

### THE WORKSHOP

The workshop will focus on fundamental concepts and techniques of Algebra and Analysis which are indispensable for postgraduate students, research scholars and faculty members. The workshop aims to sharpen theoretical knowledge as well as the skills required to formulate and solve problems in these areas.

As a social outreach, the Department of Mathematics, NITT, organizes the workshop to help CSIR / GATE aspirants to equip themselves with better understanding of these subjects, by providing systematic and thorough treatment of the topics. Tutorial sessions are planned for the participants who will get an opportunity for detailed discussions and in depth learning.

## TOPICS TO BE COVERED IN NWA 2024

(But not limited to)

- Groups
- Rings
- Fields
- Vector Spaces
- Linear Transformations
- Diagonalization and quadratic forms
- Sequences and Series
- Continuity and Differentiability
- Compactness and Connectedness
- Analytic functions
- Power series representation
- Complex Integrals

## RESOURCE PERSONS

- Dr. G. Arunkumar, IIT Madras
- Dr. S.V. Bharanedhar, CUTN, Thiruvapur
- Dr. S. Rajesh, IIT Tirupati
- Dr. M. Rajesh Kannan, IIT Hyderabad
- Dr. A. Sairam Kaliraj, IIT Ropar
- Dr. K.C. Sivakumar, IIT Madras
- Experts from NIT Tiruchirappalli

**Last date for registration:  
14, December 2024**

## REGISTRATION FEE

### For Online Participants

Category	Amount to be paid
M.Sc. Students	Rs.500/-
Research Scholars	Rs.1000/-
Faculty Members	Rs.1500/-

### For Offline/On campus Participants

Category	Amount to be paid
M.Sc. Students	Rs.1000/-
Research Scholars	Rs.1500/-
Faculty Members	Rs.2000/-

Note: Registration fee is non-refundable and does not include accommodation charges. Registration fee must be paid using SBI-collect only.

## MODE OF PAYMENT THROUGH SBI COLLECT

1. Visit the following link:  
<https://www.onlinesbi.sbi/sbicollect/>
2. Select the category as 'Educational Institutions'.
3. Choose "Conference and Workshop NIT Trichy".
4. Select payment category as "Maths 2024 – Algebra and Analysis" and fill up the details. Choose the correct category and amount in the appropriate columns, respectively.
5. Download the payment receipt after making the payment.

## HOW TO REGISTER

Fill up the required details and upload the fee payment receipt in the google form:

<https://forms.gle/q8uVKHTosfzVKeAe7>

## PARTICIPATION CERTIFICATE

The participants with minimum 80% attendance will be issued e-certificates.

## ACCOMMODATION

Limited accommodation (on sharing basis) is available in the Institute Hostels on payment. Those who need accommodation, please get mail confirmation from the coordinators before registering. Mail should be sent to

[nwaa2024nitt@gmail.com](mailto:nwaa2024nitt@gmail.com)

## PROGRAMME MODE

The workshop will take place in hybrid mode (online and offline). The online meeting link (Cisco Webex) for joining the sessions will be shared with the participants through their registered email ids.

## CONTACT

Mail: [nwaa2024nitt@gmail.com](mailto:nwaa2024nitt@gmail.com)

Mobile: +91 – 8681929861,  
+91 – 8300121647

## ORGANIZING COMMITTEE

Patron

Dr. G. Aghila, Director, NIT Tiruchirappalli  
Convener

Dr. I. Jeyaraman  
Coordinator

Dr. N. Prakash  
Department of Mathematics,  
NIT Tiruchirappalli.