NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPALLI, TAMIL NADU, INDIA

(An Institute of National Importance under Ministry of Education, Government of India)

Department of Mathematics

PROUDLY PRESENTS

exponentia 2026

NATIONAL LEVEL TECHNICAL SYMPOSIUM

Participant Handbook

Faculty Advisor

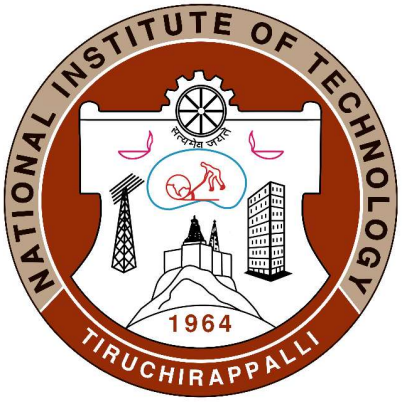
Dr. JITRAJ SAHA

(Assistant Professor, Department of Mathematics)

Contact Us

Chief Event Coordinator
Mr. NAVEEN N

Public Relations Head
Mr. SAYANTH S



Exponentia 2026

National Level Mathematics Fest

Participant Handbook

Department of Mathematics
National Institute of Technology
Tiruchirappalli – 620015

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Introduction

This Rule Book applies to all participants taking part in the events of Exponentia 2026 National Level Mathematics Fest, organized by the Department of Mathematics, National Institute of Technology, Tiruchirappalli.

This document is intended to serve as an official guide and reference for participants throughout the duration of Exponentia 2026. All participants are strongly advised to read the rules carefully and keep this rulebook accessible for guidance during the events.

In case of any conflict between this rulebook and the instructions given by the event coordinators or organizing committee, the instructions of the organizing committee shall be final and binding.

For any queries, concerns, or clarifications regarding rules or participation, please contact:

- **Mr. Naveen Narayanan**
  Event Coordinator, Exponentia 2026
  Email: 216124007@nitt.edu
  Ph. no.: 9486306426
- **Mr. Sayanth S.**
  Public Relations (PR) Head, Exponentia 2026
  Email: 216124013@nitt.edu
  Ph. no.: 7592099406
- **Ms. S. Roshini**
  Sponsor Head, Exponentia 2026
  Email: 216124017@nitt.edu

General Instructions

- Except for the UG and PG Quiz events, all other events will be based on the given theme.
- The registration fee for each participant is **Rs 200**.
- Participation certificates will be issued to all registered participants.
- Each college must participate in **at least three events**.
- Students must bring their **college ID card** and a **Bonafide Certificate** for the current academic year on the day of the event.
- One staff member may accompany the participants.
- A student is allowed to participate in **only one event**.
- Preliminaries will be conducted as per the competition schedule, if required.
- Appeals are allowed; however, the **decision of the judges shall be final**.
- The **Overall Trophy** will be decided based on a weighted average, and the evaluation matrix will be displayed.
- If a college follows a shift system, each shift may send its teams independently.
- Participants must report at the venue **at least 15 minutes before** the scheduled time.
- Late entry will not be permitted once the event has started.
- Participants must strictly follow the instructions given by the **event coordinators and volunteers**.
- Use of **mobile phones or electronic gadgets** during the events is strictly prohibited, unless explicitly permitted by the organizers.
- Any form of **malpractice, misbehavior, or indiscipline** will result in immediate disqualification.
- The organizers reserve the right to **modify the rules or schedule** if necessary.
- In case of unforeseen circumstances, the **decision of the organizing committee shall be final**.
- Participants are responsible for their **personal belongings**; the organizers will not be liable for any loss or damage.
- Lunch and refreshments will be provided.
- No TA/DA will be provided.
- Participants must adhere to the **dress code and decorum** of the institution.

LIST OF THE HEADS OF THE EVENTS

1. Mr. Arnab Halder
2. Ms. Himakshi
3. Mr. Manoj Chandan
4. Ms. Mansi Bansal
5. Mr. Naveen N
6. Mr. Navneet Kumar
7. Ms. Patil Rucha Sunil
8. Mr. Pratham Singh Rana
9. Mr. Sayanth S
10. Mr. Shakil Anowar
11. Mr. Shenai Eashan Satish
12. Mr. Sonu Kumar
13. Mr. Subhash Saw
14. Ms. S Roshini
15. Mr. Thangapandi V
16. Ms. Tinamoni Panging
17. Mr. Vimal Kirti Bauddh
18. Mr. Vishal Kumar

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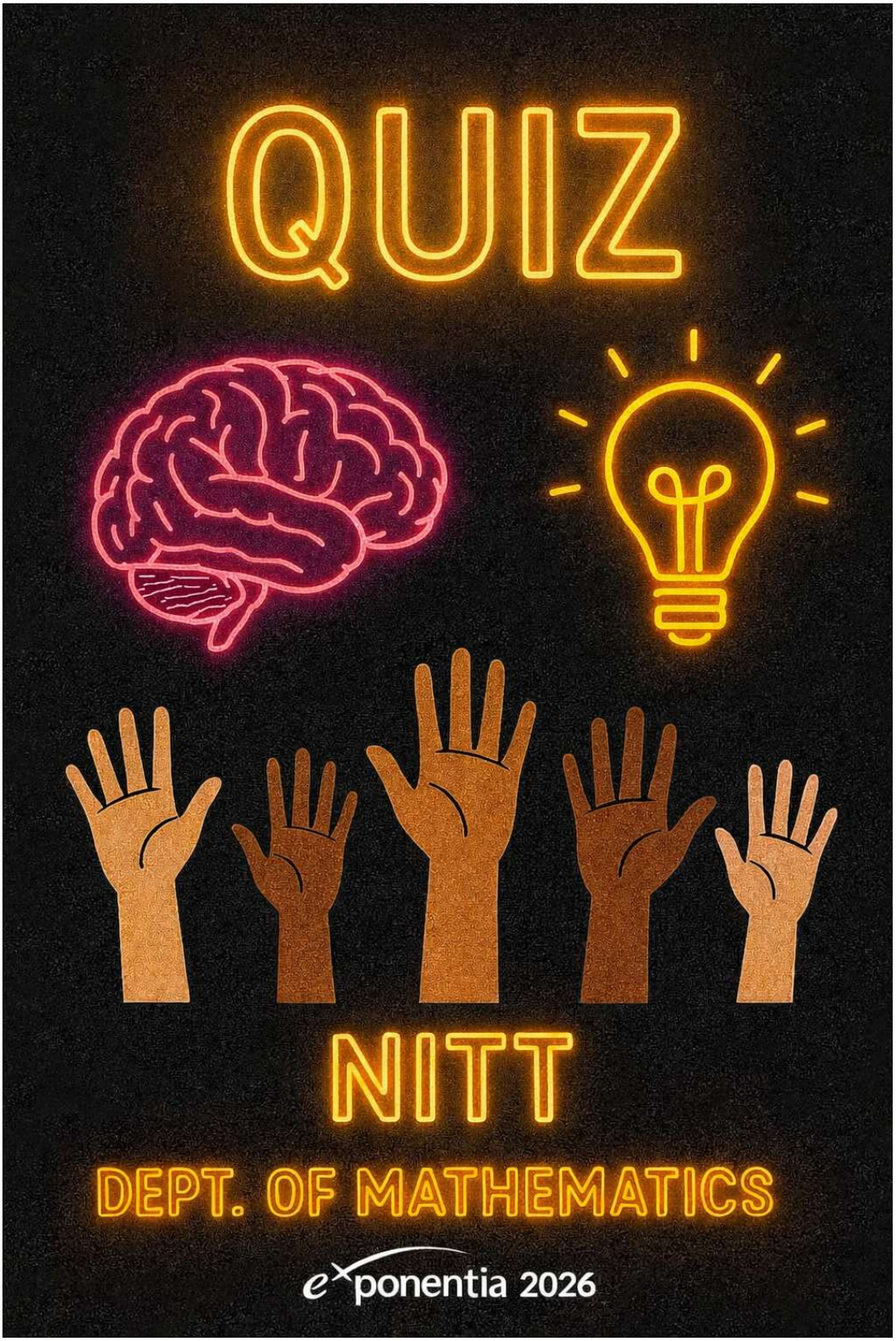
QUIZ
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1 Quiz – UG And PG

Event Instructions

Quiz

- Each college may send up to two teams for UG and two teams for PG separately.
- Each team shall consist of three participants.
- Each team may include at most two final year students.
- A preliminary round will be conducted if required.
- Six teams will be shortlisted through the preliminary round.
- The Quiz Master's decision will be final.
- Participants must bring their own pen.
- A4 sheets will be provided for rough work and calculations.
- The use of mobile phones, calculators, or books is strictly prohibited during the event.
- Teams must be present on time for the quiz mains. The event will begin without late-arriving teams.
- The decision of the judges and the organizing committee shall be final and binding.

UG Quiz Topics

- Sequences and Series of Real Numbers
- Functions of One or Two Real Variables
- Groups
- Vector Spaces
- Matrices
- Integral Calculus and Differential Equations

PG Quiz Topics

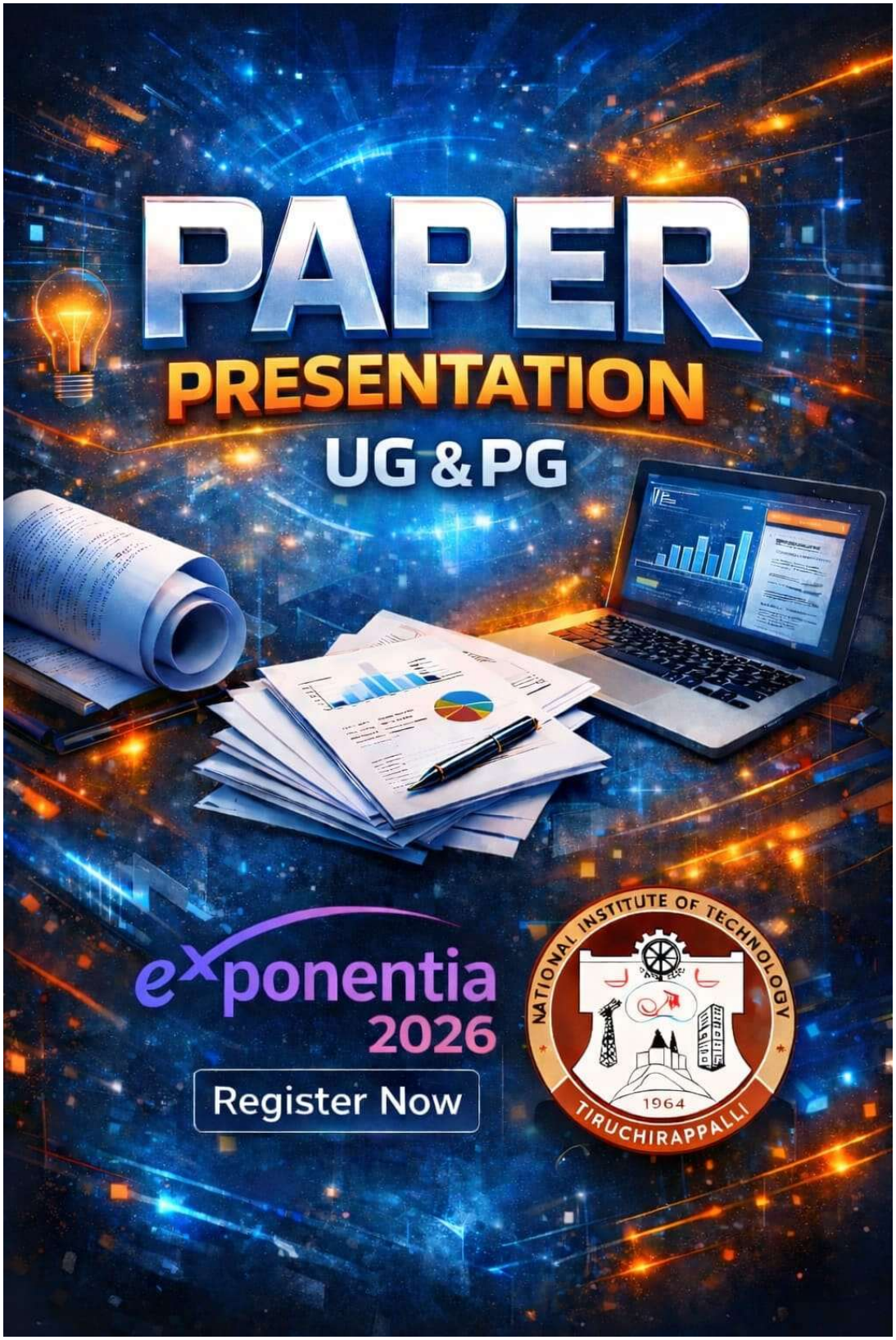
- Real Analysis
- Abstract Algebra
- Topology
- Linear Algebra
- Complex Analysis
- Functional Analysis

Coordinators

Faculty Coordinator:
Department of Mathematics, NIT Tiruchirappalli

Student Coordinators:

- **Event Head:**


PAPER
PRESENTATION
UG & PG
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2 Paper Presentation- UG And PG

Event Instructions

- The theme of the paper presentation is Applications of Mathematics.
- Each team consists of one member only.
- Two teams (one UG and one PG) per college are permitted.
- The total time allotted for each presentation is 5 minutes (4 minutes for presentation and 1 minute for discussion).
- A **bell will ring after 3 minutes** to indicate time remaining.
- Participants must submit a hard copy of their presentation to the judges before the presentation.
- Participants must adhere strictly to the allotted time limits.

Coordinators: (UG-Quiz)

Faculty Coordinator(s):

Department of Mathematics, NIT Tiruchirappalli

Student Coordinator(s):

- **Event Head:** Manoj Chandan

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MATHEMATICAL MODELLING

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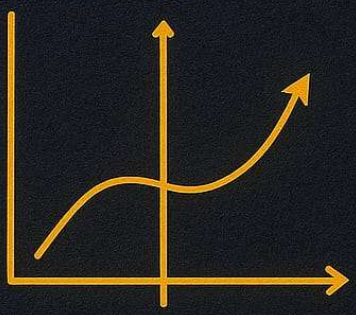

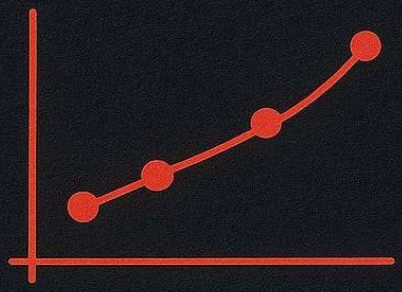

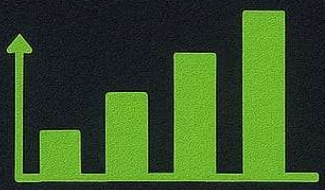

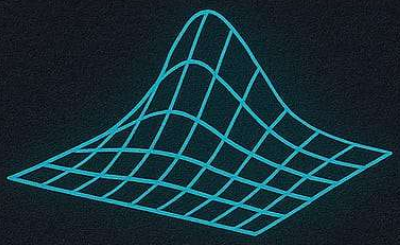

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3 Math Modeling

Event Instructions

- The theme of the model shall be related to mathematics.
- A maximum of **one team (UG or PG) per college** is permitted to participate in this event.
- Each team shall consist of two participants.
- Each team is allowed to **exhibit only one model**.
- The total time allotted for each team is 5 minutes (4 minutes for explanation and 1 minute for interaction).
- A **bell will ring after 3 minutes** to indicate time remaining.
- Participants must bring all required materials for the model on their own.
- Participants must adhere strictly to the allotted time limits.

Coordinators

Faculty Coordinator(s): Dr.
Department of Mathematics, NIT Tiruchirappalli

Student Coordinator(s):

- **Event Head:**

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DEPARTMENT OF MATHEMATICS

RANGOLI COMPETITION

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2026

4 Math Rangoli

Event Instructions

- The theme of the rangoli shall be based on **any mathematical concept**.
- **One team (UG or PG) per college** is permitted to participate in this event.
- Each team shall consist of **three participants**.
- The **total duration** of the competition is **one hour**.
- The **total time allotted** for each team is **3 minutes**, 2 minutes to explain the Mathematical Rangoli theme and 1 minute for interaction.
- Participants must **bring all materials required** for making the rangoli. No materials will be provided by the organizers.

Coordinators

Faculty Coordinator(s): Dr.
Department of Mathematics, NIT Tiruchirappalli

Student Coordinator(s):

- **Event Head:**

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