



31st Mathematics Training & Talent Search Programme

An experiment that inspired thousands and changed many lives

Organized by: MTTs TRUST | Funded by: National Board for Higher Mathematics

www.mtts.org.in

About MTTs

Mathematics Training and Talent Search Programme (MTTS) is a four-week intensive summer training programme being organized since 1993 in India. Since its inception, the programme has been funded by the National Board for Higher Mathematics, an apex body of the Department of Atomic Energy, Government of India. It is organized under the dynamic leadership of Prof. S. Kumaresan (first recipient of INSA Teachers award in Mathematics) formerly at University of Hyderabad. MTTs is one of the most effective and unparalleled training programmes and it has made significant impact on mathematics teaching and research scene in India.

Even during unprecedented pandemic, MTTs TRUST not only organized all activities online effectively, but it also added a new dimension by initiating new programmes like online foundation course in mathematics, online short courses in mathematics and open mathematics forum.

Aims

Some of the aims of the programme are to

- expose bright young students to the excitement of doing mathematics.
- promote creative thinking and initiate the art of asking questions.
- promote problem solving skills.
- prepare students for higher aspects of mathematics and a career in mathematics.
- improve the teaching methodology of mathematics in the country.

Academic Programme

There are three levels in this Programme: Level O, Level I and Level II.

Level O : There will be courses in Foundations, Linear Algebra, Analysis, and Number Theory/Group Theory.

Levels I and II : There will be courses in Algebra, Analysis, Topology and Linear Algebra.

Student seminars and group discussions in all the three levels form an integral part of this programme.

The faculty for this programme will be active mathematicians with strong commitment to teaching from leading institutions in the country. The aim of the instruction is not to give routine theorem-proof style lectures but to stimulate the participants to think and discover mathematical results on their own.

Eligibility

- **Level O**: 2nd year undergraduate students with mathematics as one of the main/major subjects.
- **Level I**: 3rd year undergraduate students with mathematics as one of the main/major subjects.
- **Level II**: 1st year postgraduate students with mathematics as one of the main/major subjects.

Organizing Team

- **MTTS Programme Director**: Prof. S. Kumaresan
- **President, MTTs Trust**: Prof. G Santhanam (IIT Kanpur)
- **MTTS Trust members** : <https://mtts.org.in/mtts-trust/>
- **Local Coordinators**:
Prof. Arindama Singh & Dr. Ramesh Kasilingam, IIT Madras
Dr. Muslim Malik, IIT Mandi
Prof. S. P. Tiwari, IIT (ISM) Dhanbad.

Venues & Duration

- Indian Institute of Technology Madras (**May 22– June 17, 2023**)
- Indian Institute of Technology Mandi (**May 29– June 24, 2023**)
- Indian Institute of Technology (ISM) Dhanbad (**May 29–June 24, 2023**)

IIT Madras will be the **main camp** where all the three levels will be held. Only level O will be conducted at other venues.

How to apply?

Students can prepare their applications online. Please see the page

www.mtts.org.in/mtts2023

for more details. The complete details of "how to apply online" is available on the website. Please go through it and the MTTs-FAQ at the website before applying or sending any queries. The online application begins on **January 10, 2023**, and ends on **February 19, 2023**.

For any query not answered in MTTs-FAQ write to info.mtts2023@gmail.com

Selection

The selection will be purely on merit, based on consistent and good academic record and the recommendation letter from a mathematics professor closely acquainted with the candidate.

The list of selected candidates will be posted on the MTTs website by **March 07, 2023**. Only selected candidates will be informed of their selection by email.

Candidates selected for the programme will be paid sleeper class return train fare by the shortest route and will be provided free board and lodging for the duration of the course.

MTTS TRUST

MTTS TRUST is a non-profit educational trust. The primary object of the trust is to organize all MTTs activities and other training camps as deemed important for the country to keep its eminence in higher mathematics. If you wish to contribute to MTTs (financial or otherwise), please get in touch with us on mttstrust@gmail.com. For more details on the MTTs Trust, visit www.mtts.org.in/mtts-trust. Those who wish to organize InitMath or PTMT programme can visit www.mtts.org.in/organize and apply online.