

Programme Theme

The Department of Mathematics launched the Summer Training Programme in Mathematics (STPM) in 2024. We are pleased to present its third edition in 2026. The primary aim of this program is to identify young minds who are at the entry-level of mathematics, motivate and groom them to be competent enough to solve some of the challenging problems in mathematics. Towards achieving this goal, the workshop will give focused and concentrated training by conducting interactive sessions in core mathematics wherein the participants will be prompted to learn mathematics by doing it themselves. The programme is going to be conducted by the Faculty of the Department of Mathematics and sponsored by IIT Palakkad.

STPM 2025



Eligibility

Students enrolled in colleges and universities and have completed their **second year of B.Sc with mathematics** as one of the majors or **second year of Integrated BS-MS programme** by June 2026 are eligible to apply.

How to Apply

The application should be submitted through the official portal of STPM 2026:

<https://math.iitpkd.ac.in/STPM2026/>.

Application link: <https://forms.gle/LPKmL1L1rLrNABHN8>

Important Dates

Event	Date
Application Starts	April 8
Application Closes	May 10
Selection Announcement	May 21
Confirmation by participant	May 30
Registration (Saraswati Block)	29 June
Inaguration	29 June (9.00 AM)
Workshop Dinner	8 July (7.30 PM)
Invited Talk	9 July (11.00 AM - 12.00 PM)
Valedictory Session	9 July (12.00 PM - 12.45 PM)

Selection Process

The selection will be purely on merit, based on consistently good academic performance and the recommendation to be obtained by the candidate from her/his Mathematics teachers who are closely acquainted with the candidate. The list of the selected students will be posted on the IIT Palakkad website during the 4th week of May (tentatively).

Support

Selected candidates will be paid second-class sleeper return train/ bus (ordinary) fare for the shortest route. The boarding and lodging for the duration of the programme will be free. The study material for the courses may also be provided. Internet and Library facilities of IIT will also be made available.

Committee & Contact

Organising committee: Dr Gopikrishnan Chirappurathu Remesan (coordinator), Dr Sarath Sasi, and Dr Priyanka Sen

Support: Center for Continuing Education, IIT Palakkad

For any further queries of information please contact us at the official email address stp_math@iitpkd.ac.in.

Saraswati Block (Lecture Halls)



Syllabus

Fundamentals. Axiomatic set theory; Zermelo–Fraenkel Axioms, Set operations, Relations, Equivalence relations, Functions and inverse images, Compositions, Peano Axioms, Number systems, Mathematical Induction, Cardinality, Countable sets, Uncountable sets, Axiom of choice, Zorn's lemma, Well ordering principle, Schroeder–Bernstein Theorem.

Real analysis. Real line, Order, Bounded sets, LUB axiom, Archimedean Principle, Sequence, Convergence of sequences, Subsequences, Cauchy's criterion, Bolzano–Weirstrass Theorem, Infinite series and Convergence, Continuity of functions, Intermediate Value Theorem

Linear algebra. System of linear equations, Gaussian elimination method, Row and Column Rank, Vector spaces and examples, Subspaces and examples, Basis and dimension, Linear transformations, Algebra of linear transformations, Rank–Nullity Theorem

Resource Persons

SS - Dr Sarath Sasi, BK - Dr Balakumar G P, JK - Dr Jaikrishnan Janardhanan, PS - Dr Parangama Sarkar, LS - Dr Lakshmi Sankar K, AK - Dr Arpan Kabiraj

Nila Campus Main Gate

