



# T.K.M.

COLLEGE OF ARTS & SCIENCE

KARICODE, KOLLAM, KERALA - 691005

Re-accredited by NAAC with "A++" Grade

## NATIONAL WORKSHOP AND CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS

March 3,4,5 & 6  
2025

jointly organized by:



IISER Bhopal

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL

KSCSTE SRINIVASA RAMANUJAN  
INSTITUTE FOR BASIC SCIENCES



POSTGRADUATE DEPARTMENT  
OF MATHEMATICS  
TKMCAS

co-sponsored by:



### PROGRAMME HIGHLIGHTS

- **Interact with Experts:** Engage with faculty members from premier National Institutes.
- **Internship Opportunities:** Potential internships at IISER Bhopal and KSCSTE - SRIBS.
- **Publication Prospects:** Publish your work in an International journal or as an ISBN book chapter.
- **Outreach for Students:** Higher Secondary school students get a chance to interact with eminent faculty members..

## ABOUT THE COLLEGE AND DEPARTMENT

TKM College of Arts and Science, established in 1965 is a prominent educational institution located in Karicode, Kollam, Kerala. Affiliated with the University of Kerala, the college offers various undergraduate and postgraduate programs across various disciplines, including arts, science, and commerce. The institution is accredited with an A++ grade by the National Assessment and Accreditation Council (NAAC). The Department of Mathematics at TKM College of Arts and Science is dedicated to fostering a comprehensive understanding of mathematical concepts and their applications. The department offers both undergraduate and postgraduate programs in Mathematics. Since 2013, the department has been hosting a Math Forum named "Sinofcos," which serves as a platform for mathematical discussions and activities.



## ABOUT THE PROGRAMME

This event aims to bring together academicians, researchers, and students to explore the dynamic field of mathematics and its diverse applications. The program will feature a three-day workshop designed to provide participants with hands-on experience in fundamental mathematical techniques and their practical uses in science, engineering, and technology. The workshop will culminate in a one-day national-level conference, which will serve as a platform for presenting research findings, exchanging innovative ideas, and fostering collaboration among professionals and enthusiasts.

## CALL FOR PAPERS

Research scholars, postgraduate students, and individuals from R&D institutions are encouraged to present their papers during the conference. The conference welcomes submissions from all areas of mathematics and its applications. Papers exploring innovative applications of mathematics in any field are highly encouraged.

- ▶ **Peer Review and Publication** : All submitted papers will undergo a peer-review process to ensure high academic standards.
- ▶ **Publication Opportunities:**
  - Accepted papers will be published in the Diamond Jubilee Book Publications with an ISBN number.
  - Selected high-quality papers will also be published in the International Journal for Multidisciplinary Research (TIJMR).
  - Send the abstract to [acmathematics@tkmcas.ac.in](mailto:acmathematics@tkmcas.ac.in)

# COLLOQUIUM: WHAT IS MATHEMATICS?

Date: 6th March 2025

Resorce Person: Prof. M Manickam, IISER Bhopal

Session Includes:

- A talk by on the foundational aspects of mathematics by Prof. M Manickam.
- An interactive session with faculty members from IISER Bhopal.
- A platform for students to engage with experts and explore mathematics beyond textbooks.

Co-organizer : KSCSTE - Srinivasa Ramanujan Institute for Basic Sciences

## SPEAKERS



Dr. M MANICKAM  
IISER Bhopal



Dr. KARAM DEO  
SHANKHADAR  
IISER Bhopal



Dr. RAHUL GARG  
IISER Bhopal



Dr. AMBUJ PANDEY  
IISER Bhopal



Dr. SANDEEP EM  
Manipal Institute  
of Technology



Dr. SREEJITH MM  
Srinivasa Ramanujan Institute  
for Basic Science (SRIBS)

## TOPICS FOR THE WORKSHOP

- 01 CALCULUS FOR MACHINE LEARNING AND DATA SCIENCE
- 02 ABSTRACT ALGEBRA – GROUPS IN ACTION
- 03 ANALYSIS- INFINITE SERIES AND ITS APPLICATIONS
- 04 NUMBER THEORY – QUADRATIC RECIPROCITY AND ITS APPLICATIONS

## TOPICS FOR THE CONFERENCE

We invite original research papers and survey articles in all areas of mathematics and its applications, including but not limited to pure mathematics, applied mathematics, computational mathematics, data science, cryptography, optimization, mathematical modeling, and interdisciplinary applications in science, engineering, and finance.

# GENERAL INFORMATION

- ▶ Participation for the workshop: UG (third year) and PG students
- ▶ Registration :

Students	₹ 300
Research Scholars	₹ 500
Faculty / Others	₹ 1000

## Registration Link :

<https://tkmcas.ac.in/national-workshop-and-conference-on-mathematics>

- ▶ Application Deadline :

Workshop - **25th February, 2025**

Abstract Submission for the Conference - **2nd March, 2025**

- ▶ Participation limit for the workshop : **40**
- ▶ Accomodation for outstation participants : Available on a payment basis

## COORDINATORS

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## ORGANIZING COMMITTEE

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