



**LOYOLA COLLEGE (AUTONOMOUS)
CHENNAI, TAMIL NADU, INDIA**

**INTERNATIONAL CONFERENCE
on
NEXT-GEN MATHEMATICAL SCIENCES
(ICNMS 2025)**

Organized by

DEPARTMENT OF MATHEMATICS

LOYOLA COLLEGE

in collaboration with

DEPARTMENT OF SCIENCE AND HUMANITIES

LOYOLA-ICAM COLLEGE OF ENGINEERING AND TECHNOLOGY

DECEMBER 10 & 11, 2025



ABOUT THE COLLEGE

Loyola College, Chennai was established in the year 1925 with 75 undergraduate students of Mathematics, History and Economics. The college was granted autonomy in 1978, and in, 2004, the UGC conferred upon it the status of a College with Potential for Excellence, which was reaffirmed in 2010. In recognition of its sustained excellence, the UGC elevated Loyola College to the status of College of Excellence for the period from 1st of April 2014 to 31st March 2019.

Currently, the college hosts around 9,500 students across 24 undergraduate and 21 postgraduate departments, with research actively conducted in 15 of these departments. Loyola is committed to delivering quality education through a comprehensive range of academic programs, innovative teaching methodologies, and intensive research initiatives.

ABOUT THE DEPARTMENT

With a legacy of excellence spanning more than a century, the department of mathematics has been at the forefront of mathematical education and research. Established in 1925 with the launch of the B.A. program in mathematics, the department introduced the Honors course in 1927, with the first batch of B.A. Honors students graduating in 1930. Over the years, the academic profile of the department expanded significantly with the commencement of M.Sc. mathematics program and the initiation of the research activities.

The department was recognized as a research department in 1984, marking a new phase of growth in advanced scholarship. In 1991, the Racine Research Centre was inaugurated to commemorate the birth centenary of Rev. Fr. Charles Racine S.J., D.Sc., a pioneer in the advancement of modern mathematics in India. Distinguished alumni of the department are Prof. M. S. Narasimhan, FRS, and Prof. C. S. Seshadri, FRS, founder and Director Emeritus of the Chennai Mathematical Institute, who earned worldwide recognition for their seminal work on the Narasimhan–Seshadri Theorem.

Current research areas within the department include:

Graph Theory

Theoretical Computation

Fuzzy Logic

Functional Analysis

Astronomy

Formal Languages and Automata Theory

ABOUT THE CONFERENCE

The INTERNATIONAL CONFERENCE ON NEXT-GEN MATHEMATICAL SCIENCES (ICNMS 2025) brings together researchers, academicians, and industry professionals to explore the latest advancements in applied mathematics and its interdisciplinary applications. This inaugural edition aims to provide a global platform for innovation, collaboration, and knowledge exchange in the mathematical sciences. Building on the momentum of the conferences conducted in the name of ICRTAM since 2022, ICNMS 2025 seeks to further strengthen opportunities for scholarly interaction and collaboration.

The conference is designed to create a vibrant academic forum for young researchers, offering them the opportunity to present their latest research findings, share expertise and methodologies, and engage in meaningful discussions on the pivotal role of mathematics in addressing contemporary global challenges.

Conference features:

- Keynote addresses by eminent mathematicians from around the world
- Invited talks by leading experts
- Paper presentations by researchers
- Book chapter publication
- Publication opportunities in SCOPUS/SCI-indexed journals

CALL FOR PAPERS

Authors are invited to submit the original and unpublished research articles in the following areas (but not limited to):

Graph theory and Combinatorics

Computational Mathematics

Fuzzy Logic and Analysis

Neural Networks

Communication Networks

Probabilistic and Randomized Algorithm

Automata Theory

Complexity Theory

Functional analysis

Differential Equations

Control Theory

Theoretical Computer Science

JOURNAL PUBLICATIONS

The papers presented at the conference will be considered for publication in the following journals, in accordance with each journal's review and publication procedures.

- AKCE International Journal of Graphs and Combinatorics (Taylor & Francis) – Impact Factor: 0.7 (No APC)
- Symmetry (MDPI) – Impact Factor: 2.2 (APC apply)

BOOK CHAPTER PUBLICATION

All accepted papers will find publication as book chapter of ICNMS 2025 volume with ISBN, brought out by Emerald Publishers.

PAPER SUBMISSION for Book Chapter Publication - GUIDELINES:

Authors with Affiliation.

Abstract with keywords (not more than 300 words).

Full Paper: Max 5 pages, Times New Roman, 12pt, 1.5 spacing.

APA format references.

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Dr. Teresa Arockiamary Santiago, Department of Mathematics, Stella Maris College, Chennai, India.

INVITED SPEAKERS

Dr. S. ARUMUGAM

Adjunct Professor, Department of Computer Science and Engineering, Ramco Institute of Technology, Rajapalayam, India.

Eminence Professor, Ramanujan Centre for Applied Mathematics & Research, Department of Mathematics, Ramanujan College, University of Delhi, India.

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Faculty of Natural Sciences and Mathematics, University of Maribor, Slovenia.

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Systems Engineering Department, Military Technological College (Ministry of Defense), Muscat, Sultanate of Oman.

Dr. A.K.B. CHAND

Department of Mathematics, Indian Institute of Technology Madras, Chennai, India.

Dr. V. LAKSHMANA GOMATHI NAYAGAM

Department of Mathematics, National Institute of Technology Tiruchirappalli, India.

Dr. P. SAM JOHNSON

Department of Mathematical and Computational Sciences, National Institute of Technology Karnataka, Surathkal, India.

Dr. SUSHMITA GUPTA

Department of Theoretical Computer Science, The Institute of Mathematical Sciences, Chennai, India.

Dr. DIMPAL JYOTI MAHANTA

Department of Mathematics, The Assam Kaziranga University, Jorhat, India.

IMPORTANT DATES

Abstract Submission for Oral Presentation	: November 10, 2025.
Submission of Full Paper for Book Chapter Publication	: November 12, 2025.
Acceptance	: November 13, 2025.
Registration & Payment	: November 15, 2025.
Full Paper Submission for Journal	: December 20, 2025.

REGISTRATION FEE

Oral Presentation	: Rs. 1,000/-
Oral Presentation with Book Chapter Publication	: Rs. 1,300/-
Participation	: Rs. 600/-
Foreign Delegates	: 100 USD
Registration for Author and Co-author(s) / additional papers should be done separately.	

REGISTRATION LINK

<https://erp.loyolacollege.edu/loyolaonline/conference/loginManager/youLogin.jsp>

WEBLINK

<https://sites.google.com/loyolacollege.edu/icnms2025>

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Significance of ICNMS 2025

- Connect with Global Experts in Mathematics and AI.
- Discover Emerging Trends and Innovations in Mathematical Science.
- Explore the Role of Mathematics in Artificial Intelligence and Technology.
- Present and Publish your Research on an International Platform.
- Collaborate, Innovate, and Inspire the Next Generation of Thinkers.
- Experience the Rich Academic Culture and Legacy of Loyola College.

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<https://sites.google.com/loyolacollege.edu/icnms2025>