

## Participants

Research Scholars, Postdoctoral Fellows, Young Scientists, Industrial Researchers, Teaching Faculties from different institutes, Universities and research organizations in the country can attend the conference.

## Submission of Abstracts:

Abstracts of original research papers in any field of Mathematics are invited for presentation. The abstracts for paper presentations not exceeding 500 words are to be submitted in Times New Roman, 12 pt (soft copy) on or before 18<sup>th</sup> December, 2024 through

E-mail: [ncmmwac2024@gmail.com](mailto:ncmmwac2024@gmail.com)

## Registration Fee has to be paid:

- Students and Research Scholars: Rs. 500/-
- Faculty and R & D Organizations: Rs. 750/-

## Payment Details:

**Acc Name:** HEAD, Dept. of Mathematics, UCS, OU

**A/C No:** 52198268002

**Bank:** State Bank of India

**Branch:** Osmania University, Hyderabad

**IFSC Code:** SBIN0020071

A registration fee includes the Conference Kit, Working lunch, Tea and Snacks during the conference. All the out station participants will be provided with accommodation on payment basis. No TA and DA will be paid to the participants.

Google form link:

<https://forms.gle/THdMRo5QWNy5WDRs5>

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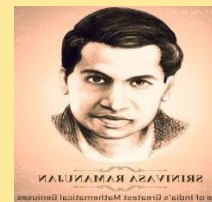
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## National Conference

On

## Mathematics in the Modern World: Applications and Challenges

20-21 December 2024

(On the eve of Srinivasa Ramanujan Birthday)



## Organized by

**Department of Mathematics**

**University College of Science**

**Osmania University,**

**Hyderabad- 500007**

## Convener

**Prof. B. Krishna Reddy**

## Co – Convener

**Prof. S. Hari Singh Naik**

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**Prof. V. Nagaraju**

**Dr. K. Phaneendra**

### **Objective of the Conference:**

This conference aims to establish a platform for academics across India to explore, share, and discuss various emerging issues and developments in diverse areas of mathematics. It seeks to guide future research by identifying key problems, viable solutions, and opportunities.

The Two-Day National Conference on Mathematics in the Modern World: Applications and Challenges will delve into significant components of numerous mathematical concepts and engineering applications, generating widespread interest. It serves as a forum for experts in Algebra, Real Analysis, Complex Analysis, Numerical Methods, Variational Methods, Fluid Mechanics, Elasticity Problems, Optimization Problems and Computer Science to exchange ideas and information.

Open to participants from all fields of Engineering and Sciences, the conference is dedicated to bringing together researchers, mathematicians, scientists, engineers, and practitioners from across the country to present their latest research.

### **Topics Of Interest**

Topics of the conference, but are not limited to, are the following

- Mathematical Modeling & Differential Equations
- Computational Fluid Dynamics, Heat Transfer and Thermodynamics
- Mathematical Biology
- Mathematical, Complex & Functional Analysis
- Operator theory, Number theory, Graph Theory
- Algebra, Linear Algebra, Cryptography
- Financial and Industrial Mathematics,
- Fuzzy Sets & Logic, Optimization & Control

### **About University:**

Osmania University, established in 1917, is the seventh oldest in India, the third oldest in South India and the first to be established in the erstwhile princely State of Hyderabad. Throughout its existence of over ten decades, it has shown remarkable progress and sustained an integrated development of all faculties. It has significantly contributed to the academic and economic development of not only the region but also of the country. Its alumni have distinguished themselves nationally and internationally in various spheres of life and are spread far and wide around the world.

### **About the Department:**

The Department of Mathematics is one among the departments established ever since the inception of Osmania University, recognized for its high level academic and research activities worldwide. Specializing in Mathematics, Applied Mathematics, Mathematics with Computer Science, and Computer Science. The Department offers M.Sc. and Ph.D. programs in various fields of mathematics.

The Department specializes in fields such as Functional analysis, Operator theory, Nonlinear Analysis, Number theory, Cryptography, Computational Fluid Mechanics, Fluid dynamics, Differential equations and their applications. It also serves as the headquarters for Andhra Pradesh and Telangana Society for Mathematical Sciences (APTSMS), formerly known as Andhra Pradesh Society for Mathematical Sciences (APSMS), since its inception in 1986.

The faculty members of this department have received project funding under PURSE and RUSA-2.0 programs. Additionally, the Department attracts the foreign students to its M.Sc. and Ph.D. programs. The department also actively conducts International, National Conferences, Seminars and Refresher Courses to impart and share the recent mathematical research trends among the present and future mathematicians across the country. UGC has recognized the department's excellence by awarding DRS phase-I for the period 1994-99, DRS phase-II for 2002-07, DRS phase-III for 2007-12, DSA phase-I for the period 2013-18.

### **Contact Information:**

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