



Convener
Prof. RAJEEVA KARANDIKAR (Academy Fellow 1994)
Professor Emeritus, Chennai Mathematical Institute, Chennai.

Co-ordinator
Prof. M. SAMBASIVA RAO
Principal, Maharajah's College (A), Vizianagaram

SPEAKERS

Prof. B. V. RAO
Chennai Mathematical Institute, Chennai

Prof. DISHANT PANCHOLI (Academy Fellow 2022)
Institute of Mathematical Sciences, Chennai

Prof. KRISHNA HANUMANTHU
Chennai Mathematical Institute Chennai

Prof. MANOJ KUMMINI
Chennai Mathematical Institute Chennai

Participants / Target Group

Faculty of Mathematics, Research Scholars, Undergraduate and Post Graduate Students of Mathematics.

Number of Participants

Seats limited to 150 Participants only. Selections are strictly based on First Come First Serve basis

Venue : Sir C.V. Raman Seminar Hall, M.R. College (A), **Registration Fee** : 100/-

Confirm participation through Email : lwtm2025.mracvzm@gmail.com
latest by 25th January, 2025. Registration begins at 8.30 AM on 31st January, 2025

Contact : Sri **SABBAVARAPU SURI BABU**
Head, Department of Mathematics
Maharajah's College (A), Vizianagaram, Andhra Pradesh - 535 002.
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With Warm Regards...
Teaching & Non-Teaching Staff, Dept. of Mathematics



Science Academies' Lecture Workshop

ON TRENDS IN MATHEMATICS

31st January, 2025 & 1st February, 2025



Sponsored by

JOINT SCIENCE EDUCATIONAL PANEL INDIAN ACADEMY OF SCIENCES

C.V. Raman Avenue, Bengaluru - 560080

Organised by

DEPARTMENT OF MATHEMATICS
Maharajah's College (Autonomous)

Affiliated to Andhra University, Accredited by NAAC with 'B' Grade
Recognized by UGC under 2(f) and 12(B) sections
Near Clock Tower, Vizianagaram, Andhra Pradesh - 535 002.
Ph : 08922 - 222001, Website : www.mracollegevzm.com

About the college

Maharajah's College was founded by Peasapati Vjaya Rama Gajapati Raja III in the year 1879 with the affiliation of Madras University. It owes 146 years of glory, prestige of producing thousands of lighting rays and pride of housing star-studded faculty and provides high quality multi dimensional services. Royal family who acted as chief patrons are Abhinava Andhra Ubbija, Anand Gajapati Raja III, Vijayarama Gajapati Raja IV, Alak Narayan Gajapati Raja, Dr. P.V.G.Raju, Dr. P.Anand Gajapati Raja. Now the trust is steering a head by the unflinching energy and unflinching determination of their worthy successor, Sri. P. Ashok Gajapati Raja Chairman and Former Minister for Civil Aviation, Govt. of India.

Since its inception, the college is catering to the needs of the down trodden and economically weaker sections of the society by imparting quality higher education. 169 medals and incentives were introduced in the name of Alumni by their family members above caste or creed.

Maharajah's College is affiliated to Andhra University since 1926. From then the college had grown from strength to strength and is under aegis of the MANSAS TRUST since 1959. The institution recognized by the UGC under 2(f) and 12(B) of UGC act and got autonomous status in 1987. The college is re accredited with NAAC-B grade in year 2019. The college offers more than 15 UG programmes with varied subjects like Mathematics, Physics, Chemistry, Computer Science, Data Science, Geology, Zoology, Botany, History, Politics, Economics, Commerce, Management Studies & 1 PG Program in Organic and Analytical chemistry.

About the Department

As a matter of pride, the department of Mathematics was established by two eminent Mathematicians Sri Satyanarayana and Sri Vanga Madhava Rao in the year 1881. The department started offering graduation courses with Astronomy and Solid Geometry. It has the distinction as the first Science group introduced in the College. Since its inception, it has been working in tune with the mission of MR college to promote teaching, research and extension activities.

The department was enriched with loving blessings of the stalwarts of yester year Sri Karri Subba Rao, Sri Sonti Purushotham, Sri P. Somanadham, Sri M. Perisastri, Sri G.V.R Subramanyam and many more who enabled the department to attain its distinction and uniqueness. Some of the alumni of this department have served in leading positions of various organisations such as RBI, ISRO, Indian Statistical Institute, Planning Commission of India.

Apart from the academic services, the department is striving to support the student learning through co-curricular activities, E-learning, ICT, Seminars, Guest lectures, Workshop etc. The department is well equipped and facilities for advanced learning and skill enhancement in order to have a good track of placements in the diverse fields like Defence services, Banking, Revenue, Software, Pharma and many more government and public sectors.

Scope of the Lecture Workshop

This workshop TRENDS IN MATHEMATICS emphasizes on orientation of certain trends in mathematics and to focus on the ideas behind certain topics in Topology, Algebra, Analysis, Singular Value Decomposition, Knot Theory, Galois Theory which are very essential in this technical World. The scope of this workshop is to motivate the participants to know about real world applications including the following

- To develop antibiotics and Chemotherapy drugs in drug development.
- To analyse the topology of DNA strands and genetic structure through DNA analysis.
- To plan and control the motion of Robots.
- To study the molecular structures and analyse the entanglement of polymer.
- To study the error correction algorithms for data transmission in Cryptography
- To identify and minimize errors in least square approximation in regression analysis.
- To study and analyse dynamics of discrete and continuous dynamical systems and nonlinear optimization systems.

Topics to be covered in the workshop :

1. Insolvability of quintics and Galois theory
2. Singular value decomposition and applications
3. Knots and Polynomials
4. Topics in analysis

Objectives of the workshop

The main objectives of this workshop are

1. To understand the concept Insolvability of quintics and Galois theory and its applications
2. To understand the concept of singular value decomposition and its applications
3. To differentiate between knots and to encode properties of knot in a polynomial
4. An analysis refers to the specific goals that guide the performance of various engineering analysis

The Indian Academy of Sciences, Bangalore, was founded in 1934 by Sir C.V. Raman. Its objectives include promoting the progress and upholding the cause of science in pure and applied branches. Major activities include publication of scientific journals and special volumes, organizing meetings of the Fellowship and discussions on important topics, recognizing scientific talent, improvement of science education and taking up other issues of concern to the scientific community. Summer Research Fellowships for students and teachers, Refreshers Courses for teachers, Lecture Workshops for students and teachers etc. are a part of the programmes under Science Education.

Indian National Science Academy, New Delhi, founded in 1955, a premier science Academy in the country, plays crucial role in promoting, recognizing and rewarding excellence in the area. Another important task is to publish journals, organize scientific discussions and bring out proceedings and monographs.

The National Academy of Sciences, Allahabad, was founded in 1930 by Dr. Meghnad Saha. The main objective of the Academy is to provide a national forum for the publication of research work carried out by Indian scientists and to provide opportunities for exchange of critical views among them.



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On
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Organized by



Department of Mathematics
Maharajah's College (A), Vizianagaram, Andhrapradesh-535002.

REGISTRATION FORM

PLEASE FILL IN CAPITAL LETTERS:

Full Name : Mr/Ms/Dr/Prof

Designation:

Organization:

Mailing Address :

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Telephone/ Mobile : Email ID:

Registration Fee : 100/-

Contact

Signature of the Participant

Organising Secretary

Sri S. SURI BABU

Head, Department of Mathematics

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