



MAHARAJAH'S COLLEGE (AUTONOMOUS), VIZIANAGARAM

CIRCULAR

Dear Sir/ Madam

We are happy to inform you that **Department of Physics, M.R. College (autonomous), Vizianagaram, Andhra Pradesh** is going to conduct a Three day Lecture Workshop on “**QUANTUM MECHANICS**” sponsored by Indian Academy of Sciences, Bengaluru. We have come to know your noble expertise and research exposure in the area of **Quantum Physics**. We are pleased to invite you to this National level workshop. The workshop is going to be held during **11th to 13th March 2024**.

You can register for our lecture workshop by filling the following registration form.

https://docs.google.com/forms/d/e/1FAIpQLSd2iHZKehsjsbM3NdhyV_2gAUdPfUS5u8viGKweaRdBBiNNjQ/viewform?usp=sf_link

You are also requested to join in our whatsapp group through following link for latest updates of our Lecture workshop.

<https://chat.whatsapp.com/lkWdc9CoapZD5fyHisCXJr>

Thank you

Sri. K. Suryanarayana
Coordinator
Lecture workshop
7032154714

Brochure Releasing:



Registrations Link for Participants: ↓

https://docs.google.com/forms/d/e/1FAIpQLSd2iHZKehsjsbM3NdhyV_2gAUdPfUS5u8viGKweaRdBBiNNjQ/viewform?usp=sf_link

Participants are required to join in Whatsapp Group: **Link** ↓

<https://chat.whatsapp.com/lkWdc9CoapZD5fyHisCXJr>

Chairperson
Prof. M. SAMBASIVA RAO
Principal, MR College (A), Vizianagaram

Convener
Prof. M.V.N. MURTHY (Retd.)
The Institute of Mathematical Sciences, Chennai.

SPEAKERS

Prof. VIVEK DATAR
Raja Ramanna Fellow at the Institute of Mathematical Sciences, Chennai.
Former Director of INO project, Former professor at TIFR and BARC

Prof. K.S. MALLESH
Former Professor, University of Mysore, Mysuru

Prof. M.V.N. MURTHY (Retd.)
The Institute of Mathematical Sciences, Chennai.

Participants / Target Group
Faculty of Physics, Research Scholars, Post Graduate & Undergraduate Students of Physics.

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

Venue : Sir C.V. Raman Seminar Hall, M.R. College (A), Registration Fee : Nil





Confirm participation through Email or Google Form by 04th March, 2024
Registration begins at 8.30 AM on 14th Feb, 2024




Coordinator
Sri K. SURYANARAYANA Asst. Professor of Physics
Contact : 70321 54714, 7989280716
Email : lwqm2024.mrca@gmail.com

With Warm Regards...

Sri P. SATYANARAYANA RAO, Incharge - Dept. of Physics
& Teaching Staff, Dept. of Physics
MAHARAJAH'S COLLEGE (A), VIZIANAGARAM - 535 002

SCIENCE ACADEMIES' LECTURE WORKSHOP
on
QUANTUM MECHANICS
11th to 13th March, 2024



Sponsored by
JOINT SCIENCE EDUCATIONAL PANEL
INDIAN ACADEMY OF SCIENCES
C.V. Raman Avenue, Bengaluru - 560080

Organised by
DEPARTMENT OF PHYSICS
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.mrccollegevzm.com

About the college

Maharajah's College was founded by Pootapati Vijaya Rama Gajapathi Raja III in the year 1879 with the affiliation of Madras University. It owns 137 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 Bhoja, Anand Gajapathi Raju III, Vijayarama Gajapathi Raju IV, Alak Narayan Gajapathi Raju, Dr. P.V.G.Raju, Dr. P.Anand Gajapathi Raju. Now the trust is steering a head by the unflagging energy and unflinching determination of their worthy successor, Sri P. Ashok Gajapathi Raju, Chairman and Former Minister for Civil Aviation, Govt. of India.

Dr. P.V.G. RAJU, The Raja Saheb of Vizianagaram, who is the founder of Maharaja Alak Narayan Society of Arts & Science, Former Education Minister of Andhra Pradesh. He was a great visionary, mooted the formation of forum for all scientists and researchers in the State. He was elected as the 1st Chairperson to the Andhra Pradesh Academy of Science, which is first of its kind in the Country, in the year 1961. We are glad that this lecture workshop is being organised befittingly on the eve of Centenary Celebrations (1st May, 2024) of Dr. P.V.G. Raju, the Raja Saheb of Vizianagaram.

Since its inception the college is catering to the needs of the down trodden and economically weaker sections of the society by imparting quality education. About 169 medals and incentives in order to encourage the meritorious students in the name of Alumni by their family members.

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

About the Academies

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, Refresher 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 1935, 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.

About the Department

The Department of Physics has its roots in the glorious institution Maharajah's College and the college got its affiliation from Madras University to start Science Courses in the year 1881. Right from its inception up to now, faculty members of the Physics Department are consistently engaged in one form or other of Research activity. The Department of Physics has blossomed into a Physics knowledge hub under stewardship of eminent personalities. Of late the Department has distinction of elevating 7 of its faculty members as principals of the college. Ours is one of the highly rated departments in our college. It has its own Significance and values. The department is well equipped and facilities are provided for advanced learning. The status of the department is reflected in student placements and higher learning. We provide ICT, E-Learning, JKC, Field trips, Workshops, Guest Lectures, Seminars, Refresher courses help our students successfully achieving their goals and dreams.

Topics to be covered in the workshop

- ▶ Great Experiments in Quantum Mechanics
- ▶ Introduction to Relativistic & Non Relativistic Quantum Mechanics
- ▶ Symmetries and Groups in Quantum Mechanics

OBJECTIVES OF THE WORKSHOP

The main objectives of this workshop is

- ▶ To introducing the basic principles of quantum mechanics applications in various fields such as physics, chemistry, and engineering.
- ▶ To address the important experiments to understand quantum picture and how these experiments will be able to measuring g-factor & tunneling process etc.
- ▶ To summarize relativistic quantum mechanics and its solution, from which how to predict the anti matter, spin, helicity, etc..
- ▶ To understand the concept of Symmetry in various contexts. Explore mathematical representations of symmetry transformations learn how symmetry impacts physical laws & systems.
- ▶ To providing hands-on experience with quantum mechanical simulations or experiments where applicable.