



DAE BRNS-IANCAS National Workshop

on

RADIOCHEMISTRY AND APPLICATIONS OF RADIOISOTOPES

Organized by

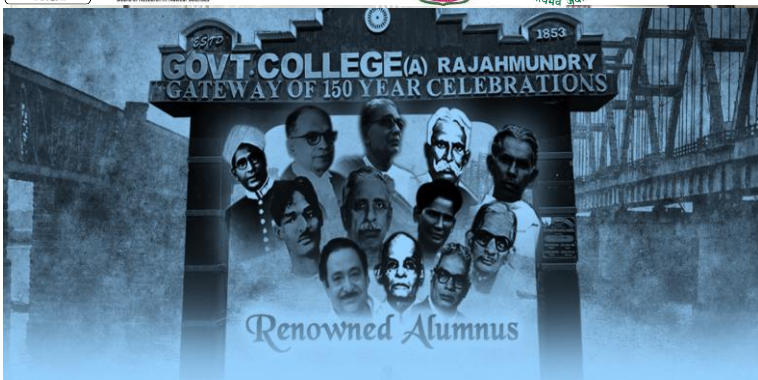
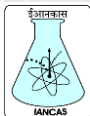
The Department of Physics, Government College (Autonomous),
Rajahmundry, Andhra Pradesh, India

In association with

Indian Association of Nuclear Chemists and Allied Scientists
(IANCAS),

Bhabha Atomic Research Centre, Mumbai

February 3 – 7, 2025



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IANCAS Convener

Dr. P. S. Ramanjaneyulu,
Head, High Temperature Analysis Section,
Radioanalytical Chemistry Division, RC & IG,
Bhabha Atomic Research Centre (BARC), Mumbai.

The Department of Physics, Government College (Autonomous), Rajamahendravaram is organizing the **109th DAE BRNS-IANCAS National Workshop** on **“Radiochemistry and Applications of Radioisotopes”** from **3 – 7 February 2025** in association with **Indian Association of Nuclear Chemists and Allied Scientists (IANCAS)**, **Bhabha Atomic Research Centre (BARC), Mumbai.**

This workshop aims to illuminate the significance of nuclear science and its diverse applications across various domains such as healthcare, agriculture, polymer sciences, biosciences/biotechnology, pharmaceutical sciences, environmental sciences, and industry. Moreover, it endeavors to dispel misconceptions prevalent in society regarding nuclear sciences.

BARC Distinguished Scientists and Experts specialized in nuclear physics, nuclear chemistry, nuclear reactors, radioisotope production and application, as well as health and safety aspects, will be the key speakers for this workshop. The daily program structure will include 3-4 lectures during the morning sessions followed by experimental sessions in the afternoon. These sessions will feature hands-on laboratory experiments designed to enrich and benefit the participating individuals.

IANCAS was founded in 1981 with an objective of popularizing nuclear science among the scientific community in the country. Under its mandate, IANCAS is continuously promoting the subject of nuclear and radiochemistry, and use of radioisotopes & radiation sources in education, research, agriculture, medicine and industry by organizing seminars and workshops.

Through its various outreach programs, IANCAS endeavours to motivate the researchers and scientists to achieve excellence in the field of nuclear and allied sciences. As a part of outreach programs, IANCAS conducts workshops on “Radiochemistry and Applications of Radioisotopes” at various Universities, Institutes, schools and colleges. These workshops may play a key role in motivating the young researchers and encouraging them to accept the subject of radiochemistry and applications.

IANCAS OFFICE BEARERS

- ❑ Dr. P.K. Mohapatra, President, IANCAS
- ❑ Dr. S.C. Parida, Vice President (HQ), IANCAS & Chairman, IANCAS Workshops
- ❑ Dr. S.C. Tripathi, Vice president (O), IANCAS
- ❑ Dr. S. K. Sharma, Secretary, IANCAS & Scientific Officer, RCD, BARC, Mumbai
- ❑ Dr. Pranaw Kumar, Treasurer, IANCAS & Scientific Officer, FCD, BARC, Mumbai.

About the Institute : Government College (Autonomous), Rajahmundry (GCRJY) is located on the banks of River Godavari in Rajamahendravaram, Andhra Pradesh, India. The college was conferred autonomy status in 2000 and reaccredited with A+ Grade by NAAC in 2020 with 3.38/4.00 CGPA. Further, the college was selected for "College with Potential for Excellence" in 2016. At present, the college offers 41 U.G. Programs and 14 P.G. level and Research programs. The college caters to the educational needs of nearly 7,000 students with various groups and combinations at U.G., P.G., and Research levels. The college has grown from strength to strength over the past 171 years and has been marching ahead as a global educational institution.

About the Department

The Department of Physics has been one of the oldest and biggest departments since the establishment of GCRJY. It was established in 1930 under the Madras Province of British India. Post Graduate Course in PHYSICS was introduced with an affiliation of Andhra University, Visakhapatnam, in 1971. To inculcate Research tinge among students, and faculty, a research facility titled Crystal Growth and Nano Science Research Centre was established in 2009. At present, 04 B.Sc.-Major programs, 01 M.Sc. Physics., and Research Programs are offered by the Department. The department is determined to establish facilities for Crystal Growth Research, Nanomaterials and Magnetic Materials. The Department targets to achieve Research Excellence in Interdisciplinary & Allied Sciences through collaborations with Industry and Educational Institutions within the nation and across the globe.

Organizing Committee Members

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Mr. N. Venkanna Babu
Mr. BPVVB N Rao
Smt. G. Padma

Last Date for Registration is 20-01-2025

Lectures (Morning Session)

- Introduction to Radioactivity and Nuclear Decay
- Nuclear Structure and Stability
- Interaction of Radiation with Matter
- Application of Radioanalytical Techniques in Research
- Radiation Detection and Measurements
- Introduction to Nuclear Reactors
- DAE Technologies for Societal Applications
- Radiation Technology in Agriculture and Food
- Production of Radioisotopes
- Radioisotopes in Healthcare
- Application of Radioisotopes and Radiation in Industry
- Radiation Safety and Setting up a Radiological Laboratory

Experiments (Afternoon Session)

- G. M. Counter: Plateau & Statistics
- G. M. Counter: Determination of dead time
- NaI(Tl): Determination of resolution of detector
- NaI(Tl) – Determination of attenuation coefficient)
- Environmental (Soil/Air/Fruits) radiochemistry demonstration
- Applications of Radioactivity in Separation Science – (U/Th Separation)

For Registration

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- ❑ Participants are required to pay the registration fee (non-refundable)
- ❑ No travel allowance (TA) or Daily Allowance (DA) will be provided.
- ❑ Limited accommodation is available for participants at nominal charges on a first come, first serve basis.
- ❑ The certificate to be issued by IANCAS-GCRJY can be accounted towards **Carrer Advancement Scheme (CAS)** promotions as per UGC norms.

Contact us:

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Category	Fee (in Rs)
Faculty Members/Scientists	2000
Research Scholars/RA/PDF	1500
B.Sc./M.Sc.Students	1000
Participants from Industry	3000

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