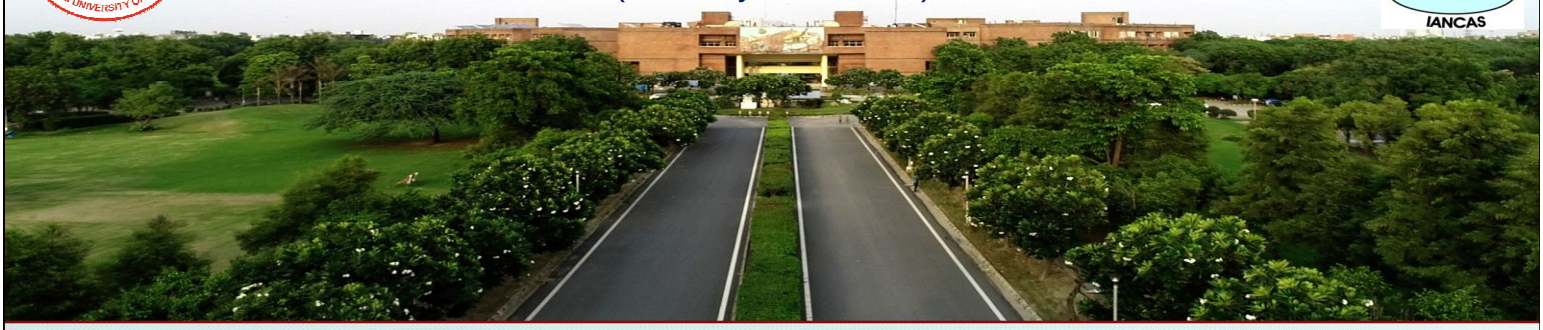
113th DAE BRNS-IANCAS NATIONAL WORKSHOP & OUTREACH PROGRAM
on
NUCLEAR SCIENCES AND APPLICATIONS OF RADIOISOTOPES
(February 02-06, 2026)



Organized by
Department of Physics and Chemistry, Netaji Subhas University of Technology, New Delhi - 110078
in Collaboration with
Indian Association of Nuclear Chemists and Allied Scientists (IANCAS)
C/O Radiochemistry Division BARC, Trombay, Mumbai - 400085

About the Workshop

As a part of outreach program, IANCAS with the support from BRNS, conducts national workshops on "Nuclear Sciences and Applications of Radioisotopes" at various Institutes/ Universities. These workshops play paramount role in motivating the young researchers to accept the subject of nuclear and radiochemistry. This is the 113th National workshop of IANCAS in the series, which is aimed to provide a forum for mutual interaction amongst the faculty members and scientist from various educational institutions and research organizations. Eminent scientist and specialists on topics related to nuclear chemistry, nuclear physics, nuclear reactor, production and application of radioisotopes, nuclear analytical techniques and Health and safety aspects will be the resource persons of the workshop. The lectures will be supplemented by hands-on laboratory experiments for the benefit of participants. In addition, special session will also be held on research funding opportunities by the BRNS for the benefit of participants associated with teaching and research.

Local Advisory Committee

- Prof. Om Prakash Thakur, Physics, NSUT, New Delhi
- Prof. Sanjeev Thakur, Head, Chemistry, NSUT, New Delhi
- Prof. Anjana Sarkar, Chemistry, NSUT, New Delhi
- Prof. Purnima Jain, Chemistry, NSUT, New Delhi
- Associate Prof. Anurag Gaur, Physics, NSUT, New Delhi
- Associate Prof. Hemam Dinesh Singh, Physics, NSUT, New Delhi
- Assistant Prof. Jehova Jire L. Hmar, Physics, NSUT, New Delhi
- Assistant Prof. Vinamrita Singh, Physics, NSUT, New Delhi
- Assistant Prof. Harsh Yadav, Physics, NSUT, New Delhi
- Assistant Prof. Amit Sanger, Physics, NSUT, New Delhi
- Assistant Prof. Samiksha Dabas, Physics, NSUT, New Delhi
- Assistant Prof. Rahul Kumar, Physics, NSUT, New Delhi
- Assistant Prof. Jitendra Singh, Physics, NSUT, New Delhi
- Assistant Prof. Shivam Kumar Singh, Mathematics, NSUT, New Delhi

Call for Participation

- Applications are invited from research scholars/post-docs and M.Sc./M.Tech./B.Tech students, faculties/scientists, industry/ corporate persons, working in the relevant areas like Physics, Chemistry, Biotechnology, Health and Pharmaceutical sciences, Engineering Sciences and Nuclear Sciences, through the Google form.
- Registration fee will include registration kit, lunch, tea/coffee during sessions.
- Maximum number of participants: 60 (First come first serve basis).
- Registration fees details: Research Scholars/Students: ₹ 2000/-
  Faculties/Scientists/Post-doc: ₹ 2500/-
  Industrial/ Corporate personnel: ₹ 3000/-
- Last date for registration: 10 January, 2026
- No accommodation will be provided to the participants.

About Netaji Subhas University of Technology (NSUT)

Netaji Subhas University of Technology, Delhi provide education and research in branches of engineering, technology, sciences, humanities, social sciences and management for the advancement of learning and dissemination of knowledge in such branches and for certain other matters connected therewith or incidental thereto. It has been consistently ranked as one of the top engineering university in India and has featured prominently in various national level surveys conducted by reputed professional and trade magazines.

NSUT is an Autonomous Institution under Govt. of NCT of Delhi and previously affiliated to University Of Delhi. It was established in the year 1983 as Delhi Institute of Technology with the objective of meeting the growing demands of manpower in the emerging fields of engineering and technology with a close social and industrial interface. Over a period of time, the institute has carved a niche for itself, both nationally and internationally, for excellence in technical education and research. NSUT has a beautifully landscaped and fully residential campus, sprawling 145 acres of land.

Scientific Programme

➢ Scientific topics to be covered

The workshop shall include lectures in the morning session, and experiments with nuclear detectors in the evening session. Some important topics that will be covered are:

- Introduction to Radioactivity and Decay
- Nuclear structure and Stability
- Interaction of Radiation with Matter
- Radiation detection and Measurements
- Accelerators and Nuclear reactions
- Production of Radioisotopes
- Nuclear reactors
- Application of Radioisotopes in Industry & Environment
- Application of Radioisotopes in Health care and Agriculture
- Application of Nuclear Analytical Techniques in Research
- Nuclear Waste Management
- Radiation safety and setting up of a radiological laboratory
- Career opportunities in DAE and BRNS research Funding

➢ Hands on Experiments

- GM Counter - A Gas Filled Detector : Plateau, Dead Time
- Measurement of environmental Radioactivity
- Gamma-ray Spectrometry using NaI(Tl) Detector
- Shielding Experimental using NaI(Tl) Detector

Chief Patron
Prof. Anand Srivastava
Vice Chancellor, NSUT

Co-Patron
Prof. Sonika Bhatnagar
Dean, Faculty of Science, NSUT

Convener
Dr. Pargin Bangotra
Assistant Prof., Dept. of Physics, NSUT

Co-Convener
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Assistant Prof., Dept. of Chemistry, NSUT

Coordinator
Dr. Suparna Sodaye
Scientific Officer H, RCD, BARC

Coordinator
Prof. N. L. Singh
Emeritus Prof., Dept. of Nanotechnology, DSEU

Venue : NSUT (Main Campus), Sector-3 Dwarka, New Delhi-110078

For any query, contact: pargin.bangotra@nsut.ac.in