

## ABOUT THE INSTITUTE

The Institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and was upgraded to the National Institute of Technology in 2002. It is one of the pioneering engineering institutions in the country, which has contributed to many outstanding engineers in India and abroad. Special attention is being given to interdisciplinary research to impart high-quality technical education to meet the global needs in the present competitive world. The institute has highly qualified faculty members who actively engage in teaching and research.



## ABOUT THE DEPARTMENT

The Department of Physics of SVNIT is one of the leading departments in terms of research. The department supports all undergraduate and postgraduate students by providing them with a firm foundation in physical sciences through state-of-the-art teaching by offering them basic and advanced courses on physics. The Department has made its mark at the national and international level with several externally funded research projects, national-level awards, and research collaborations across the country and globe.



## ABOUT IANCAS

Founded in 1981, IANCAS (Indian Association of Nuclear Chemists and Allied Scientists) continuously promotes nuclear and radiochemistry by organizing seminars and workshops and publishing periodical thematic bulletins. With its enthusiastic 1906 Life Members from all over the country and overseas (till March 2022), IANCAS has become one of the popular platforms for popularizing the subject of nuclear and radiochemistry across the country. IANCAS brings out quarterly thematic bulletins on the topic of relevance to nuclear science and technology with financial support from BRNS. So far, it has published 75 such bulletins, distributed free to all its members and freely available for download. The Association's famous book "Fundamentals of Nuclear and Radiochemistry" is widely sought amongst the academia, researchers, and students of DAE, non-DAE units, and Universities. To achieve excellence in popularizing the nuclear sciences through electronic media, IANCAS has its website ([www.iancas.org.in](http://www.iancas.org.in)), which is regularly updated. Information about the workshops, awards, and various activities of IANCAS is available on the website. All the publications of IANCAS, including bulletins and books, are available in free downloadable form.

## IANCAS COORDINATOR

**Dr. Suparna Sodaye**

(Scientific Officer H), Radio Chemistry Division (RCD),  
Bhabha Atomic Research Centre (BARC), Trombay, Mumbai-400085  
Phone: 022-25596181, Email: [suparna@barc.gov.in](mailto:suparna@barc.gov.in)

## LOCAL ORGANIZING COMMITTEE

**Patron:** **Dr. Anupam Shukla** (Director, SVNIT, Surat)  
**Co-Patron:** **Dr. Pramod Mathur** (Registrar, SVNIT, Surat)  
**Prof. S. N. Sharma** (HoD, DoP, SVNIT, Surat)  
**Chairman:** **Dr. D. R. Roy** (FIC, DoP, SVNIT, Surat)  
**Convener:** **Dr. Dipika Patel** (DoP, SVNIT, Surat)  
**Co-Conveners:** **Dr. A. K. Rai** (DoP, SVNIT, Surat)  
**Dr. V. K. Ojha** (DoP, SVNIT, Surat)

## MEMBERS

Prof. Kamlesh N. Pathak, Dr. Dimple V. Shah, Dr. Vipul Kheraj,  
Dr. Lalit Kumar Saini, Dr. Y. A. Sonvane, Dr. Sharad Kumar  
Yadav, Dr. Shail Pandey, Dr. Himanshu Pandey, Dr. Mithun  
Karmakar

## CALL FOR PARTICIPATION

**BRNS-IANCAS National  
Workshop on  
"Radiochemistry and  
Applications of Radioisotopes"**

**8<sup>th</sup> January-12<sup>th</sup> January 2024**

**Chief Patron**

**Prof. Anupam Shukla**  
Director, SVNIT, Surat

**Co-Patron**

**Dr. Pramod Mathur, Registrar, SVNIT**  
**Prof. S. N. Sharma, HoD, DoP**

**Chairman**

**Dr. D. R. Roy**

**Convener**

**Dr. Dipika Patel**

**Co-Conveners**

**Dr. A. K. Rai | Dr. V. K. Ojha**

**Organized By**

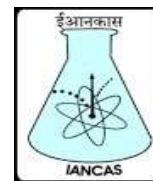
**Department of Physics**

**S. V. National Institute of Technology**  
**Surat-395007, Gujarat, India**  
In Association with the CCE SVNIT

&

**In collaboration with**

**Indian Association of Nuclear  
Chemists and Allied Scientists (IANCAS)**  
c/o Radiochemistry Division  
Bhabha Atomic Research Centre, Mumbai



## SCIENTIFIC PROGRAMS

### Lectures (Morning Session)

1. Introduction to Radioactivity & Decay
2. Nuclear Structure and Stability
3. Interaction of Radiation with Matters
4. Radiation Detection and Measurement
5. Introduction to Nuclear Reactors
6. Applications of radio-analytical techniques in Research
7. Actinides and Trans-Actinides
8. Production of radioisotopes
9. Radioisotopes in Healthcare
10. Radiation Technology in Agriculture and Food
11. Radioisotopes in Industrial Application
12. Health and Safety in Handling Radioactivity

### Experiments (Afternoon Session)

1. GM Counter: Plateau, Dead time & Statistics
2. NaI(Tl) Detector: Dead time & Resolution
3. Separation: Uranium & Thorium Separation
4. Radioimmunoassay

## ABOUT THE WORKSHOP

As a part of the outreach program, IANCAS, with support from BRNS, conducts Workshops on “Radiochemistry and Applications of Radioisotopes” at various Institutes. IANCAS successfully conducted the 105<sup>th</sup> National Workshop in September 2022 at SKB University, Purulia, West Bengal. This is the 106<sup>th</sup> IANCAS workshop, which aims to provide a forum for mutual interaction among faculty members and scientists from various educational institutions and research organizations at SVNIT. Eminent scientists and specialists in nuclear physics, nuclear chemistry, nuclear reactors, production and application of radioisotopes, and health and safety aspects will be the resource persons of the Workshop. The lectures will be supplemented by laboratory experiments for the benefit of the participants.

## REGISTRATION AND GENERAL INFORMATION

Registration will be done via Google Forms using the following link:  
<https://forms.gle/NfCrMmcPQXZiJ9gz9>

Alternatively, the participants can send scanned copies of the Filled Registration Form and Payment Details to the following email ID:  
[iancas.svnit2024@gmail.com](mailto:iancas.svnit2024@gmail.com)

For more details visit the following link:

<https://sites.google.com/phy.svnit.ac.in/brns-iancas2024/home>

## IMPORTANT DATES

Last date of registration: **15<sup>th</sup> December 2023.**

## ABOUT CCE

Center for Continuing Education (CCE) was established in Feb-2017 at SVNIT with the prime objective of imparting skill-developing training programs to faculties, research scholars, UG/PG students, and industry professionals through planning and organizing Workshop/STTP/Expert talks on the concept of Self-Sustainability approach as per MHRD Guidelines. 201720172017.

## REGISTRATION FEES

- Students (UG/PG/Ph.D.): Rs. 2000 /-
  - Faculty/Scientist/Researcher: Rs. 2500/-
  - Industry person: Rs. 3500/-
- The non-refundable registration fee should be sent through net banking/Online Payment.
- Bank Account Name: Director, SVNIT- CCE
  - SBI Account No. : 37030749143
  - IFSC Code : SBIN0003320
  - SWIFT Code: SBININBB260
  - Branch: SVRCET Branch, Ichchhanath, Surat, Gujarat, 395007.

While paying through Net banking, in remarks, the purpose is to be written as “**Registration Fee for IANCAS-RAR2024.**” (Kindly save the receipt or take a screenshot of the payment)

## WHO CAN ATTEND IT

Applications are invited in the enclosed "Participation form" from mainly faculty members engaged in teaching and research and a few researchers/research scholars in relevant areas like Nuclear Science and Technology, Chemistry, Physics, Biosciences/Bio-technology, Health Sciences, Pharmaceutical Sciences, and Environmental Sciences.

**The certificate to be issued by IANCAS-SVNIT is recognized as a short-term course (5 working days) and may be accounted towards API as per UGC norms**

## ACCOMMODATION

Accommodation is available on a payment basis either in the institute's main guest house (<http://www.svnit.ac.in/web/campus.php?tag=guesthouse>) or other nearby private hostel/hotel at nominal rates in twin shared/single room.

## CONTACT PERSON

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