



## ISMAS-SMS - 2025



### ABOUT SVNIT

**Sardar Vallabhbhai National Institute of Technology (SVNIT)** was established in 1961 as one of the Regional Engineering Colleges for imparting technical education. In exercise of the powers conferred by section 3 of the University Grants Commission (UGC) Act, 1956, the Central Government on the advice of the University Grants Commission, has declared the Sardar Vallabhbhai Regional College of Engineering & Technology (SVREC), Surat to Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat with status of "Deemed University" with effect from 4th December 2002. The Institute has been granted the status of 'Institute of National Importance' w.e.f. 15th August, 2007. At present, the Institute is offering 11 UG Programmes, 21 PG Programmes, and Five Years Integrated M.Sc (Chemistry, Physics and Mathematics) and B.Tech + MBA Programmes including doctoral programme in all above branches. The SVNIT has excelled tremendously in various research areas in Applied Sciences and Engineering disciplines during the last ten years, and received prestigious awards and grants from various Government bodies. The Institute has received huge grants for research under the prestigious schemes of DST, BRNS, DRDO, CSIR, UGC-DAE, GUJCOST.

### ABOUT DEPARTMENT OF CHEMISTRY

**Department of Chemistry** is one of the most prominent departments in S. V. National Institute of Technology, Surat, Gujarat, India, started in 1961-62 under the supervision of dedicated faculty members. It offers Five Years Integrated MSc in Chemistry, B.Tech in Industrial Chemistry and PhD programs. The academic achievements of the department are well reflected by numerous research papers published in various reputed International Journals and more than 65 PhD's produced covering a wide spectrum of the chemical sciences. The Department has been the proud recipient of individual research projects sponsored by various funding agencies including DST, CSIR, BRNS, DST-FIST, DRDO, UGC-DAE and GUJCOST. The department has already organized various Staff Short Term Training Programs (STTP), National and International Conferences. The department has produced eminent chemists, Prime Minister's Research Fellow, NET and GATE qualified candidates in addition to generation of trained human resources in different spheres of chemical sciences. Further, several international fellowships have been received by the students of Chemistry Department. The department has an outstanding performance in filling the patents and commercializing the innovative work of faculty. For further details: <https://www.svnit.ac.in/web/departments/chemistry/>



## ISMAS - SMS - 2025



### ABOUT ISMAS - SMS - 2025

The aims of the ISMAS – SMS are to update practitioners of mass spectrometry (and related disciplines) on new experimental and theoretical developments in this field of research and to create an opportunity for researchers from the various disciplines to discuss their problems in an interdisciplinary framework. New studies and developments in the field of mass spectrometry have demonstrated the usefulness of spectral data in providing information on the mass of target analytes or molecules. The new modern technique of mass spectrometry has extended to identify target molecules from complex samples. Furthermore, this school covers the recent developments on inorganic and molecular mass spectrometric techniques for qualitative and quantitative analysis of various inorganic and organic molecules. This school will provide significant information on recent progress of mass spectrometric techniques (gas phase ionization, spray ionization, laser desorption-ionization and miniaturization mass spectrometry) for the identification of various molecules. Therein this programme will review and highlights the fundamentals of various types of mass spectrometric techniques in chemical and biomolecules analysis which serve as entry to real-world applications in industries, biomedical, pharmaceutical, and chemicals. The deliberations of the programme will cover the following topics: Instrumentation, types of ionization, Portable mass spectrometric techniques, miniaturized sample preparations in mass spectrometric analysis.

### ISMAS - SMC CONTENTS

- History and developments of mass spectrometry
- Types of ionizations
- Inorganic and molecular mass spectrometry
- Miniaturized Sample Preparations
- Imaging mass spectrometry

#### Certificates

Certificates will be provided to all the participants those who have attended all the sessions of ISMAS-SMC.

### RESOURCE PERSONS

Academy experts and scientists from reputed institutes and research laboratories from India and Abroad will deliver lectures.



## ISMAS - SMS - 2025



### ISMAS - School on Mass Spectrometry (SMS – 2025)

27<sup>th</sup> – 31<sup>st</sup> October, 2025



#### Coordinators

**Dr. Rajesh K. Vatsa**

**Shri V. Nataraju**

**Dr. K. Suresh Kumar**

**Dr. Bharat Z. Dholakiya**

**Dr. Naved I. Malek**

**Dr. Subrata Dutta**

#### Organized by

**Department of Chemistry  
S. V. National Institute of Technology  
Surat 395 007, Gujarat, India**

**In Association with  
Indian Society for Mass Spectrometry, Mumbai  
and CCE, SVNIT, Surat**



## ISMAS - SMS - 2025



### REGISTRATION FEE

Category of participants	Amount
Participants from Industry	₹ 2500/-
Faculty/ Scientists	₹ 1500/-
PhD/MSc/UG Students	₹ 1000/-

Registration fee should be remitted through On-line/NEFT to the Bank account given below. Proof of remittance of registration fee (with transaction number if online transaction) shall be attached to the google form.

Bank details of ISMAS is as under:

Bank Name : State Bank of India

Account No : 34209713912

Beneficiary : Indian Society for Mass Spectrometry (ISMAS)

IFSC Code : SBIN0001268

Branch Code : 1268

Bank Branch : SBI, BARC

Bank Address : SBI, BARC Branch, Trombay, Mumbai-400 085, India

➤ How to Apply: Interested candidates can apply online by using QR code or clicking below link

<https://forms.gle/scdd4RzKGGLVnSSf9>



### IMPORTANT DATES

Last date of registration : 19<sup>th</sup> October 2025

Selection-list intimation : 20<sup>th</sup> October 2025

Duration of Program : 27 – 31 October 2025

For any queries regarding this programme, please contact the coordinator

Dr. Rajesh K. Vatsa

Shri V. Nataraju

Dr. K. Suresh Kumar (M 09033369827)

Dr. B.Z. Dholakiya (M 09428949595)

Dr. Naved I. Malek (M 09033167127)

Dr. Subrata Dutta (M 09641010427)



## ISMAS- SMS - 2025



### COURSE OBJECTIVES

- To develop interaction between academic institution, industry and researchers.
- To update the participants with the recent developments and advances in mass spectrometric Techniques.
- To enable the participants with fundamental and novel concepts in portable mass spectrometric techniques.
- To familiarize the participants with the recent miniaturized sample preparation techniques.
- To train the participants in the basic concepts of mass spectrometric techniques and their applicability.
- To assist in framing the solution approach for research applications and industrial problems.

### WHO CAN ATTEND?

Faculty members/Scientists/Research scholars/PG & UG students/Technicians and Engineers working in Private/Public/ Govt. organizations/chemical industries etc.

### THEMES OF ISMAS-SMS-2025

- History and development of mass spectrometry
- Different type of mass spectrometric techniques
- Mass spectrometry instrumentation
- Understanding the mass spectra
- Qualitative and quantitative analysis by inorganic and molecular mass spectrometric techniques.
- Miniaturized sample preparation techniques coupled with mass spectrometric techniques.
- Recent developments in spray ionization mass spectrometric techniques.
- Imaging of biomolecules by imaging mass spectrometry.



## ISMAS - SMS - 2025



### ORGANIZING COMMITTEE

#### Chief Patron

Prof. Anupam Shukla, Director, SVNIT, Surat  
Patron(s)

Dr. K. G. Bhushan, President, ISMAS

Prof. B. Z. Dholakiya, Head, DoC, SVNIT

#### Technical Committee

Dr. Rajesh K. Vatsa

Shri V. Nataraju

#### Coordinators

Dr. K. Suresh Kumar, SVNIT, Surat

Prof. Bharat Z. Dholakiya, SVNIT, Surat

Dr. Naved I. Malek, SVNIT, Surat

Dr. Subrata Dutta, SVNIT, Surat

### DEPARTMENT OF CHEMISTRY



#### Contact Details

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