

7-Day workshop on Instrumentation Techniques

17 June 2025 – 23 June 2025



Organised by

Department of Chemistry

College of Engineering Guindy (CEG)

Anna University

Chennai – 600025

Venue : Hall of 1960



Theme of the workshop

The objective of this workshop is to train the students, Ph. D. Scholars, Faculty members, scientists, and industrial professionals on instrumentation. This workshop aims to provide a hands-on training with various instruments available at Anna University, ensuring a strong understanding of the basic principles and applications.

The Instruments covered in this workshop:

- Transmission Electron microscope (TEM)
- Scanning Electron microscope (SEM)
- X-ray Diffractometer
- BET Surface Analyser
- Gel Permeation Chromatography
- Rheometer
- High-Performance Liquid Chromatography
- Raman spectroscopy
- IR Spectroscopy
- Fluorescence Spectroscopy
- UV-Visible Spectroscopy

An industrial visit is also planned to provide participants with practical exposure to industrial applications. This visit will provide an opportunity to the participant to gain knowledge about the how instrumentation is helpful in industrial sector and how the Research and Development (R&D) and Quality Control (QC) of industries are operating.

Application for registration

Faculty members, Research Scholars, and Postgraduate students of academic institutions, colleges, and universities, as well as Scientists and Technologists from Research Laboratories, R&D Institutions, and Industrial R&D Faculty are all warmly welcomed to join this conference.

7 Days workshop on Instrumentation Techniques
17 June 2025 – 23 June 2025 at Hall of 1960
Department of Chemistry, CEG,
Anna University, Chennai – 600 025

Name: _____

Designation: _____

Organization: _____

Mobile: _____

Email: _____

Please send me the dully signed and scanned registration form along with fees payment receipt and ID card copy to 7dwinstrutech@gmail.com

Complete the Google form:

https://docs.google.com/forms/d/1Afo8rL0KCoCn9MOtsSZ5H38v_6CwychF7NGu_eewPks/edit

Date:

Signature

Category	Fees	Fees with 18% GST
Student/ Scholar	Rs. 4,000/-	Rs. 4,720/-
Faculty	Rs. 7,000/-	Rs. 8,260/-
Industrial Participants	Rs. 12,000/-	Rs. 14,160/-

- The above fees should be paid by taking DD in favour of “The Director, CSRC, Anna University, Chennai – 600 025” payable at Chennai
- The DD must be sent to “The Coordinator, 7 Days Workshop on Instrumentation Techniques, Department of Chemistry, CEG, Anna University, Sardar Patel Road, Chennai – 600 025, Tamil Nadu”.
- Stay will be arranged on request by payment basis.
- For further assistance contact Coordinator by email at 7dwinstrutech@gmail.com or by mobile 9790963437

About the university

Anna University was established on 4th September, 1978. This University is named after Late Dr. C. N. Annadurai, former Chief Minister of Tamil Nadu. It offers higher education in Engineering, Technology, Architecture and Applied Sciences relevant to the current and projected needs of the society. CEG Campus was established in 1794, as a School of Survey with eight students in a building near Fort St. George. Founded by Michael Topping, the school became the Civil Engineering School in 1858. Subsequently, this was established as a college in 1859 under the Madras University. It was then rechristened as College of Engineering in 1861 with the inclusion of the Mechanical Engineering branch. Research Programs were introduced in 1935. Miss. Leela George and Miss. A. Lalitha were the first two lady Engineers of Guindy (1940). In 1946 first Ph.D. was obtained by Prof. K. Sukumaran. As one of the oldest engineering institutions in the country, CEG Campus has a rich tradition of research, and is dedicated to furthering the frontiers of technology and engineering

About the Department

The Department of Chemistry is located at the College of Engineering, Guindy Campus of Anna University, Chennai. The Department has been offering M.Sc. (Applied Chemistry), Ph.D. programs since 1975 and M. Tech. (Polymer Science and Engineering), as an interdisciplinary program, in 1995. Engineering Chemistry theory and laboratory courses are offered for first year B.E. and B. Tech programme and the students are also guided in inter-disciplinary projects involving materials development and analysis. The Department has been receiving infrastructure and research grants from DST-FIST, UGC-SAP (DRS), DST-PURSE, UGC-X, XI & XII plans and UGC-CPEES schemes. Sophisticated analytical Instrumentation facilities established through the grants include, GC, GC-MS, HPLC,

DRS - UV-Vis Spectrophotometer, TPD and TPR, ATIR, TOC, TGA, UTM and FE-SEM. The Department ranks among the best in the University with more than 300 doctorates, 1500 research publications and 100 sponsored research projects, since inception

Deliberations of the workshop

Day	Expert Talk & Hands on Training
1	UV Visible Absorption Spectroscopy Fluorescence Spectroscopy
2	IR Spectroscopy Raman Spectroscopy
3	High Performance Liquid Chromatography Gas Chromatography and Liquid Chromatography
4	Gel Permeation Chromatography and Rheometer Surface Analytical Methods
5	X-ray Difraction Technique Scanning Electron Microscopy and Transmission Emission Microscopy
6	Industrial Visit
7	Electro Analytical Techniques

The workshop is planned to have expert talk followed by hands on training of the participants as lab integrated theory model. This will help the participant to understand the basic principles and in instrumentation of the various techniques. The industrial visit is planned to train the participants to have a fruitful utilization of the knowledge gained throughout the workshop in the industrial sector. This will enlighten the participants to aware how the instrumentation is useful in the industrial sector

Organizing Committee

Chief Patron:	Chairman Convener Committee Anna University
Patron:	Dr. J. Prakash Registrar Anna University
Chair:	Dr. K.S. Eswarakumar Dean CEG Campus
Convener:	Dr. M. Dharmendra Kumar Professor & Head Department of Chemistry CEG Campus
Co-ordinator	Dr. P. Muthu Mareeswaran Assistant Professor Department of Chemistry CEG Campus

