CHRIST
(DEEMED TO BE UNIVERSITY)
BANGALORE | DELHI NCR | PUNE

DEPARTMENT OF CHEMISTRY

CENTRE FOR RENEWABLE ENERGY & ENVIRONMENTAL SUSTAINABILITY

Organizes

SOPHISTICATED ANALYTICAL & FABRICATION INSTRUMENT TRAINING (SAFIT-2)

About the Workshop

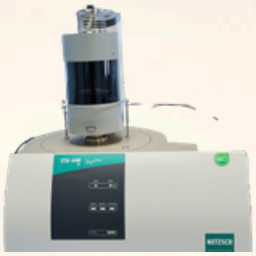
The Department of Chemistry, Centre for Renewable Energy and Environmental Sustainability (CREES), is organising a workshop titled SAFIT (Sophisticated Analytical & Fabrication Instrument Training) on 24 November 2026. The workshop aims to provide hands-on training and practical exposure to three advanced instruments: Tubular Furnace, used for material synthesis and heat treatment; ICP-OES, used for elemental analysis; and TGA-DSC, used to study thermal stability and material transitions. The workshop focuses on enhancing participants' technical skills and understanding of analytical techniques relevant to materials science, renewable energy and environmental research.



Tubular Furnace



Inductively Coupled Plasma Optical Emission Spectrometer



Thermogravimetric Analyzer – Differential Scanning Calorimeter

Training Topics

Tubular Furnace

- Working Principle
- Temperature programming and atmosphere control (air, N_2, Ar, H_2/Ar)
- Applications: calcination, and pyrolysis
- Sample loading, crucible selection and safety

ICP-OES

- Principles of atomic emission and plasma generation
- Instrumentation
- Sample preparation and acid digestion
- Calibration, detection limits, interferences and matrix effects
- Data interpretation and applications

TGA-DSC

- Principles, Instrumentation and working mechanisms of TGA and DSC.
- Sample preparation, and selection of experimental parameters (heating rate, temperature range and atmosphere).
- Analysis of thermal stability, decomposition behaviour, moisture content and composition of materials using TGA.
- Hands-on training in thermal analysis, thermogram interpretation and applications in polymers, nanomaterials, catalysts and advanced functional materials.

24 November 2026 (Tuesday) | **9:30 AM – 3:30 PM** | **R & D Block, 3rd Floor**

Registration Fee ₹500

Fee Name: Events
Category: Training
Fee Category: SAFIT-Christite
SAFIT - External

Register Here

OR

CLICK HERE TO REGISTER

Payment Link

OR

CLICK HERE FOR PAYMENT

Last Date of Registration
22 November 2026

Accommodation will be provided exclusively for the students traveling from outside Bangalore, subject to prior notification.

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