

CSIR Integrated Skill Initiative



Skill Development Training Programme

17th to 19th December, 2025

**Instrumental Methods for
Chemical Characterization
of Glass & Ceramic
Materials
and
Testing & Calibration
Techniques Related to
Temperature
Measurement & Control**

Participating Institute:
Heritage institute of Technology, Kolkata

CSIR- CGCRI Kolkata



CSIR-CGCRI Skill Development Training Centre
196 Raja S. C. Mullick Road, Kolkata 700 032

Schedule for Skill Development Training Program

17th to 19th December, 2025

Time	Events
DAY 1: 17.12.2025, Wednesday	
10:30 h - 11:00 h	Inaugural Session
11:30 h- 13:00 h	BATCH-1: Classical chemical analysis & Basic principles and application of ICP-AES for determination of chemical constituents of glass, ceramic raw materials and products. BATCH 2: Basic principles of temperature control system, operation and programming of PID controller, testing of temperature control panel.
14:00 h -17:00 h	BATCH-1: Basic principles of temperature control system, operation and programming of PID controller, testing of temperature control panel. BATCH-2: Classical chemical analysis & Basic principles and application of ICP-AES for determination of chemical constituents of glass, ceramic raw materials and products.
DAY 2: 18.12.2025, Thursday	
10:30 h -13:00 h	BATCH-1: Basic principle and application of UV-Visible Spectrophotometer and pH- Ion Selective Electrode. BATCH-2: Calibration of Thermocouple - Basic principles and techniques.
14:00 h - 17:00 h	BATCH-1: Calibration of Thermocouple : Basic principles and techniques. BATCH 2: Basic principle and application of UV-Visible Spectrophotometer and pH Ion Selective Electrode .
DAY 3: 19.12.2025, Friday	
10:30 h -13:00 h	BATCH-1: Basic principles and application of Atomic absorption spectroscopy (AAS) for measurement of trace elements in glass ceramics and allied samples. BATCH 2: Basic Instrumental measurement and techniques
14:00 h - 16:00 h	BATCH-1: Basic Instrumental measurement and techniques BATCH 2: Basic principles and application of Atomic absorption spectroscopy (AAS) for measurement of trace elements in glass ceramics and allied samples.
16:00-17:00 h	Certificate distribution & Group photo