

CSIR Integrated Skill Initiative



Skill Development Training Programme

6th to 9th October, 2026

Instrumental Methods for
Chemical Characterization
of Glass & Ceramic
Materials
and
Process control techniques
related to different physical
parameters and their
related instrumentation

Participating Institute:

Birla 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

6th to 9th October, 2026

Time	Events
DAY 1	
10:00 h - 11:00 h	Inaugural Session
11:00 h- 13:30 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.
14:30 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	
10:00 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 on of UV-Visible Spectrophotometer and pH Ion Selective Electrode .
DAY 3	
10:00 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 - 17:00 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.
DAY 4	
10:00 h -13:00 h	Lab Visit
14:00 h - 17:00 h	Question & Answer, Certificate Distribution and Group Photo