

# CSIR Integrated Skill Initiative



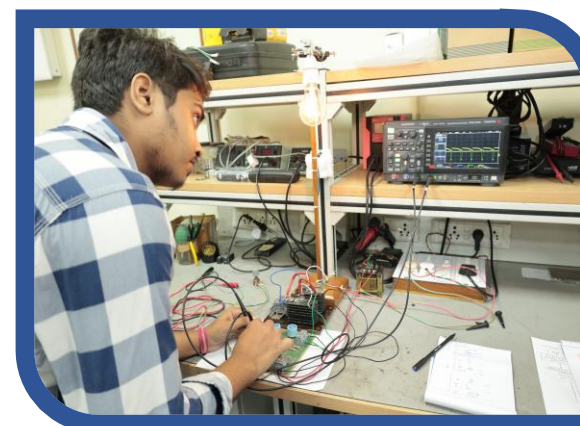
## Skill Development Training Programme

4<sup>th</sup> to 7<sup>th</sup> March 2025

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

# CSIR- CGCRI

## Kolkata



**CSIR-CGCRI Skill Development Training Centre**

*196 Raja S. C. Mullick Road, Kolkata 700 032*

# Schedule for Skill Development Training Program

4<sup>th</sup> – 7<sup>st</sup> March, 2025

Time	Events
<b>DAY 1: 4.03.2025, Tuesday</b>	
10:00 h – 11:30 h	Inaugural Session
11:30 h-14:00 h	<b>BATCH-1:</b> Basic principles and application of ICP-AES for determination of chemical constituents of glass, ceramic raw materials and products and classical methods of analysis of glass ceramics and allied samples <b>BATCH 2:</b> Basic principles of temperature control system, operation and programming of PID controller, testing of temperature control panel.
14:30 h – 17:00 h	<b>BATCH-1:</b> Classical chemical analysis & Basic principles of temperature control system, operation and programming of PID controller, testing of temperature control panel. <b>BATCH-2:</b> Basic principles and application of ICP-AES for determination of chemical constituents of glass, ceramic raw materials and products and classical methods of analysis of glass ceramics and allied samples
<b>DAY 2: 5.03.2025, Wednesday</b>	
10:30 h -14:00 h	<b>BATCH-1:</b> Principle and application of UV-Visible Spectrophotometer and pH-Ion Selective Electrode. <b>BATCH-2:</b> Calibration of Thermocouple - Basic principles and techniques.
14:30 h – 17:00 h	<b>BATCH-1:</b> Calibration of Thermocouple : Basic principles and techniques. <b>BATCH 2:</b> Principle and application of UV-Visible Spectrophotometer and pH Ion Selective Electrode .
<b>DAY 3: 6.03.2025, Thursday</b>	
10:30 h -14:00 h	<b>BATCH-1:</b> Principles and application of Atomic absorption spectroscopy (AAS) for measurement of trace elements in glass ceramics and allied samples. <b>BATCH 2:</b> Basic Instrumental measurement and techniques
14:30 h – 17:00 h	<b>BATCH-1:</b> Basic Instrumental measurement and techniques <b>BATCH 2:</b> Principles and application of Atomic absorption spectroscopy (AAS) for measurement of trace elements in glass ceramics and allied samples.
<b>DAY 4: 7.03.2025, Friday</b>	
10.30 h -12.30 h	MCQ based Assessment
14.00 h- 15.00 h	Lab Visit
15.00 h - 16.00 h	Interaction with trainees and feed back
16.00 h – 17:00 h	Certificate Distribution & Group Photo