



CSIR Integrated Skill Initiative Skill Development Training Programme 2022-23 on Techniques of Chemical Characterization









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

About CSIR

Council of Scientific and Industrial Research (CSIR) established in 1942 under Ministry of Science and Technology, Govt. of India is an autonomous Society whose President is the Prime Minister of India. CSIR an ensemble of 37 state-of-the-art institutes, 39 outreach centers, 3 Innovation Complexes, and five units with a pan-India presence. Today CSIR is amongst the foremost scientific and industrial research organizations in the world. CSIR expertise and experience is embodied in its ~ 4600 scientists and 8000 scientific and technical support personal apart from ~ 7000 research students. Over the years, this unique organization has served as a springboard for scientific and technological activities in a wide variety of S&T domains. It has helped India usher in a scientific milieu, creating and nurturing talent in science, innovation and technology.

About CGCRI

Central Glass and Ceramic Research Institute (CGCRI) is one of the premiere laboratories set up under Council of Scientific & Industrial Research (CSIR). Even though it started functioning in a limited way in 1944, the Institute was formally inaugurated on August 26, 1950. Development of various type of glass & ceramics brought CGCRI into limelight in the international arena.

CSIR-CGCRI has vast and strong expertise in the field of traditional ceramics, glasses, refractory, water technology and materials characterization. The institute is well equipped with various state-of-the-art instruments for characterizing different aspects of glass and ceramic raw materials and products. In the recent past, CSIR-CGCRI has also developed affordable water treatment plant which can be installed comfortably in remote areas for safe drinking water. CSIR-CGCRI is constantly working in the area of technological and skill development of the artisans engaged in the traditional terracotta products.

The Programme

The main objectives of this training program is to provide training on chemical characterization of glass, ceramics and allied materials by modern instrumental techniques as well as classical analysis by using internationally accepted standard methods. The training programme will be focused on (i) advanced instrumental analysis using different instruments like ISE meter, UV-Visible Spectrophotometer, Atomic Absorption Spectrometer and Inductively Coupled Plasma-Atomic Emission Spectrometer (ii) Classical method of chemical analysis (iii) Complete chemical analysis of glass and related materials.

S1. No.	Title of the Course/Module	and Allied M Course Details	laterials Duration	Eligibility	Contact Person
1.	Advanced Instrumental Analysis	Advanced Training on Principle and Application of UV-Vis Spectrophotometer, Atomic Absorption Spectrophotometer, ICP-AES and ISE Meter related to characterization of Glass, Ceramic and allied materials.	4 days July 26-29, 2022 and 4 days September 13-16, 2022	and above	Dr. P. K. Sinha Sr. Principal Scientist & Head, Analytical Chemistry Section & Nodal, Skill Development Programe Mob: 9432012945 Email: cgcri.skill21@gmail.com psinha@cgcri.res.in
2.	Classical Method of Chemical Analysis	Special Training on Classical Analysis for specific constituents of Glass Ceramic and allied materials like SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Cr ₂ O ₃ , ZrO ₂ , P ₂ O ₅ , LOI.	4 days, August 23- 26, 2022 and 4 days November 15- 18, 2022	B.Sc./B.Tech and above	Mr. Jyotirmay Sikder Sr. Principal Scientist & Head, AMCCD Mob: 9958327190 Email: cgcri.skill21@gmail.com jyotirmay@cgcri.res.in
3.	Complete chemical analysis of glass	Advanced Training on Complete Chemical Analysis and Related Grading of Different Type of Glass.	4 days December 13- 16, 2022 and 4 days January 10- 13, 2023	B.Sc./B.Tech and above	





196, Raja S. C. Mullick Road, Jadavpur, Kolkata - 700032, West Bengal Tel.: +91-33-24735829/24839241; Fax: +91 33 24730957 Email: dir_office@cgcri.res.in, URL: www.cgcri.res.in

Naroda Outreach Centre

168-169, Naroda Industrial Estate, Ahmedabad - 382330, Gujarat Tel.: +91-79-22823345/1747; Fax: +91-79-22822052 Email: siccgcrinc@cgcri.res.in

Khurja Outreach Centre

G. T. Road, Khurja - 203131, Uttar Pradesh Tel.: +91-5738-232501/245433; Fax: +91-5738-245081 Email: cgcrikc@cgcri.res.in



CSIR-Central Glass & Ceramic Research Institute, Kolkata