Materials Characterization and Techniques

CSIR Integrated Skill Initiative

Schedule

- Date of commencement- February 1, 2020
- Duration of the course- 30 Days
- No. of seats- 10
- Course Fee- Rs. 10000/- and Rs.15000/- for sponsored candidates

Objectives

To educate and train students to gain hardware and software skills for maintenance and troubleshooting of sophisticated X-ray and electron microscopy instruments

Topics to be Covered

- General working of material characterization equipments like Powder XRD, Small Angle XRD (SAX), X-ray Photoelectron Spectroscopy (XPS), Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM)
- Maintenance of X-ray and electron microscopy instruments
- Identifying crystal structure and microstructure of materials and interpretation of data files and results
- Trouble shooting of X-ray and electron microscopy instruments
- Elementary driver software training

Job Opportunities

Successful participants will be better equipped for advanced materials characterization laboratories and industries in various national and international Institutes.

Government Institutions: IITs, IISERs, CSIR Labs, DRDO Labs, DST/DBT/DAE/DOS Institutes, Colleges and Universities

Commercial Firms: All reputed industries in the domain of X-Ray Crystallography and Electron Microscopy.

Eligibility

B.Sc. Physics / Instrumentation / Electronics / Materials Science or Diploma in Electronics / Instrumentation

CSIR-NIIST

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