



CSIR
INTEGRATED
SKILL
INITIATIVE



<https://nclsdp.ncl.res.in/>

CSIR-NCL SKILL DEVELOPMENT PROGRAM

"X-Ray Techniques"



ABOUT COURSE

X-ray diffraction (XRD) is an essential analytical technique to determine the structure and crystalline nature of materials. XRF (X-ray fluorescence) is a non-destructive analytical technique used to determine the elemental composition of materials. XPS is an analytical technique used to determine the surface chemistry of material. This course will acquaint participants with a fundamentals and practical applications of powder diffractometry, followed by a demonstration of XRD analysis techniques. Students will learn how to use crystallographic software for phase and crystal structure analysis, grain size estimation, lattice parameters, lattice strain, substitution/doping analysis, etc, and XRF sample preparation and analysis. , Demonstration of XPS Analysis .

COURSE CONTENT

- Powder X-Ray Diffraction Technique (PXRD)
- X-Ray fluorescence (XRF)
- X-Ray Photoelectron Spectrometer (XPS)



FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

HOW TO APPLY

Application form is available at -
<http://www.ncl-india.org/files/SDP/Default.aspx>

PRIME INSTRUCTOR & TEAM

Dr. S . Mohan and Team

COURSE DETAILS

Duration- 1 Week

Dates- 24 June. - 28 June 2024

No. of Seats- 15

Eligibility- M.sc.(Chemical & Physical Sciences), M.Pharm.

Last date of registration-10 June 2024

Course Fees -

Students

- 5000 /-

Faculty

- 17700 /-

Industrial Professional - 29500 /-

(The fees stated include 18% GST)

Accommodation-1 week+ 2 days with affordable charges

Here is the reason why
WHY CHOOSE US



- More weightage on hands-on practice
- Interactive sessions
- Robust & sustainable training module
- Affordable fee structure
- Brief on career options
- Networking



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