

SINGLE CRYSTAL XRD (X-ray Diffraction)

**HANDS-ON
LEARNING
REAL IMPACT**

ABOUT COURSE

Single Crystal X-Ray Diffraction (SCXRD) is a powerful technique used for determining the three-dimensional structure of crystalline materials at atomic resolution.

It plays a crucial role in chemistry, materials science, and pharmaceutical, this course provides in-depth theoretical knowledge along with extensive hands-on training on SCXRD instrumentation, crystal handling, data collection, and structure analysis.

FOR WHOM

-  Students
-  Academic Researchers
-  Industrial Professionals

HOW TO APPLY

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

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

ncl.sdte.ncl@csir.res.in

CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pashan, Pune-411008

WHY CHOOSE US

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

COURSE CONTENT

- Introduction to X-ray Diffraction
- Basics of Crystallography
- Working principle of SCXRD instrument
- Crystal selection & mounting techniques
- Data collection & processing
- Structure solution & refinement
- Interpretation of crystallographic data
- Report preparation and troubleshooting

COURSE DETAILS

 **Duration - 5 Weeks**

 **Dates - 01st June to 30th June 2026**

 **Seats - Max 5**

 **Eligibility - M.Sc (Completed),
M Pharm (Completed),
PhD (Pursuing/Completed).**

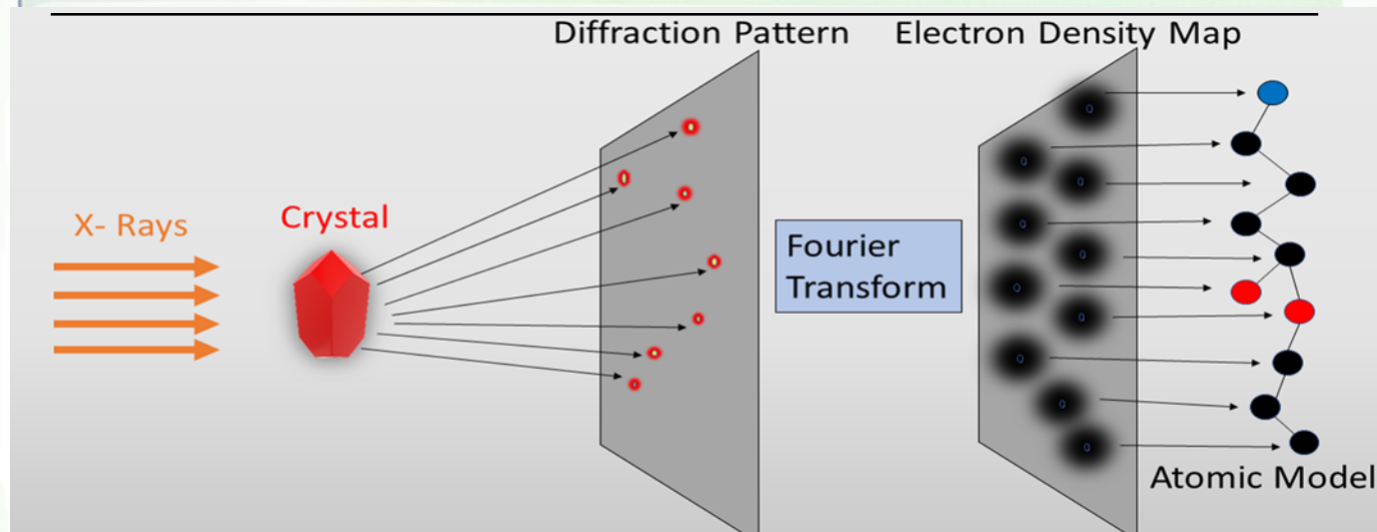
Course Fees :

Students ₹ 11,800

Faculty ₹ 23,600

**Industrial Professionals
₹ 47,200/-**

(The fees stated include 18% GST)



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