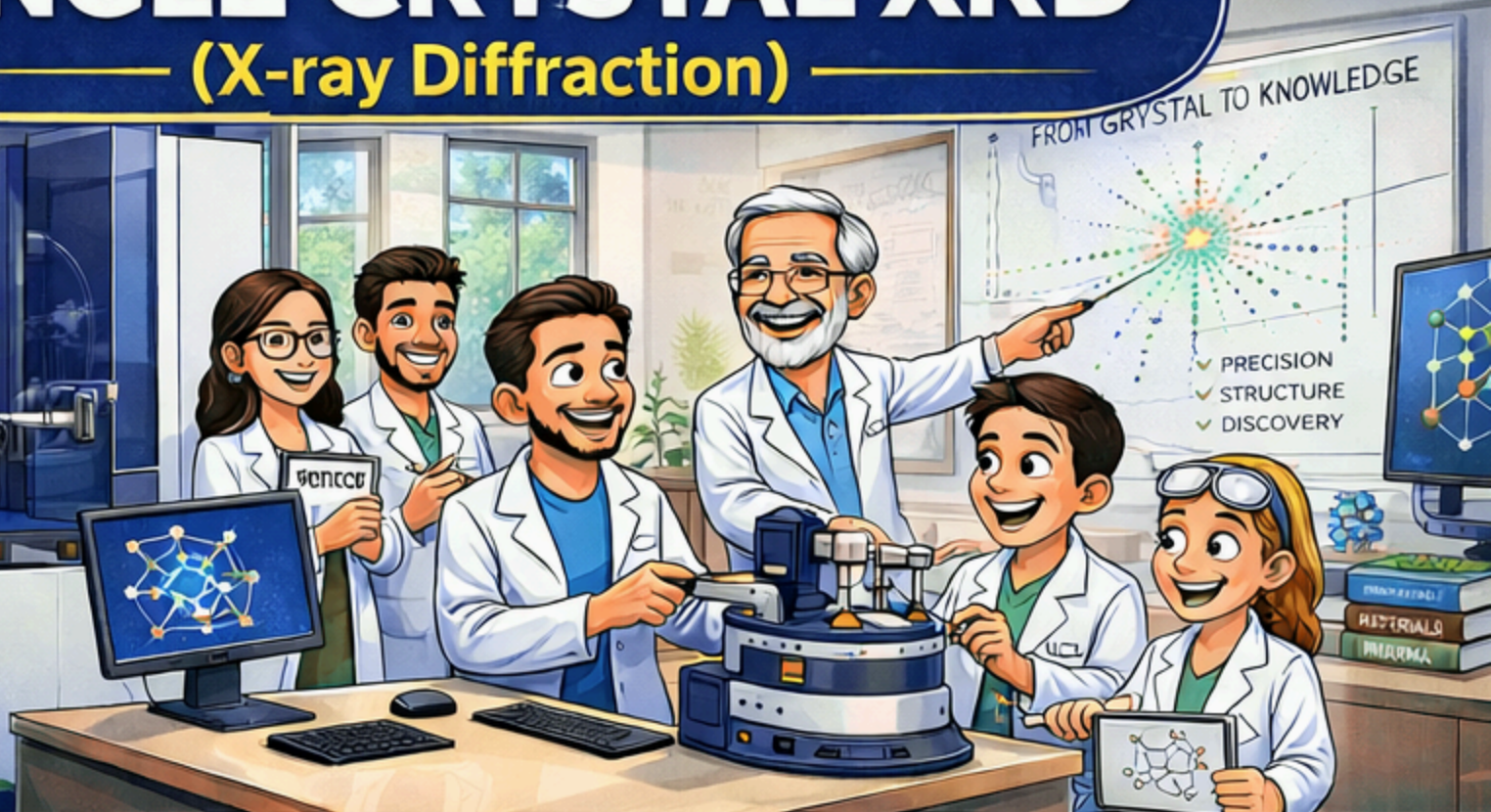


SINGLE CRYSTAL XRD (X-ray Diffraction)

**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


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 - 11th May - 12th 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)

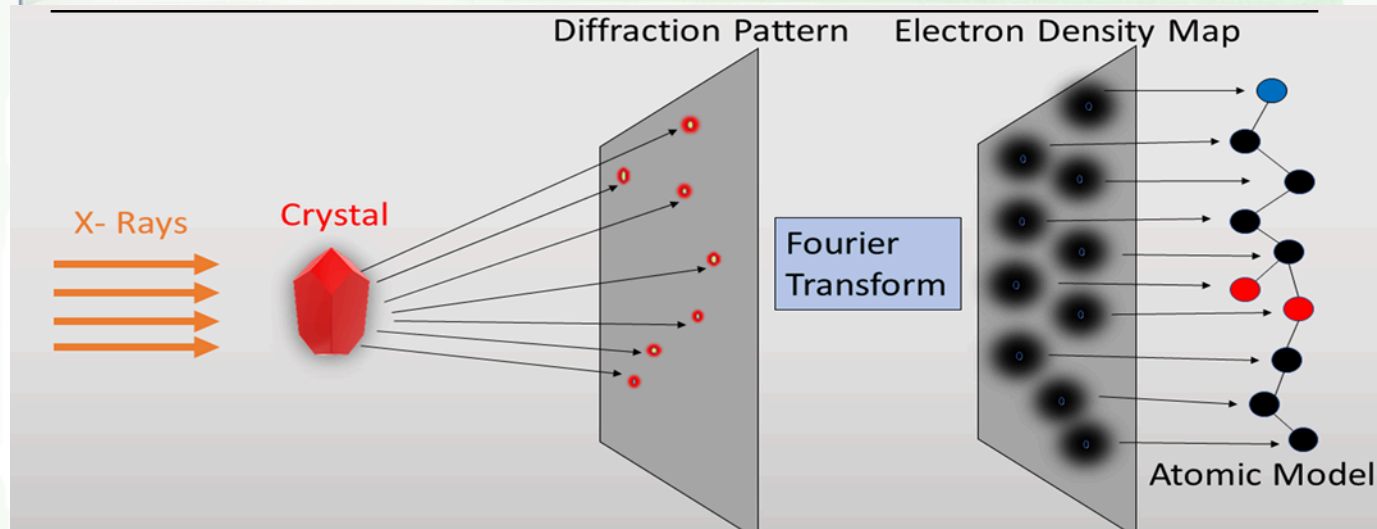
HOW TO APPLY

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

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

 ncl.sdtc.ncl@csir.res.in

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



Single Crystal X-ray Diffraction