



Hands-on Training Program on Powder X-ray Diffraction and UV-Visible Spectroscopy



Organized by Central Instrumentation Center (CIC), under the aegis of IQAC, A. N. College, Patliputra University, Patna

Date :- 12.02.2026 to 16.02.2026



Who can participate

- ✓ PG students
- ✓ Ph.D. students
- ✓ Project fellows
- ✓ Teachers
- ❖ First come first serve
- ❖ Limited seats only

Topics to be covered

- ❑ Crystallography and basic Principles of X-ray diffraction
- ❑ Diffractometer: Theory and Instrumental details
- ❑ Phase identification and crystallite size analysis along with visualization
- ❑ ICDD/COD database
- ❑ UV-Visible Spectroscopy- Theory and Experiment

Resource Persons

- Prof. Seema Sharma (Physics)
- Dr. Nisha Kumari (Chemistry)
- Dr. Ruchi Rashmi (Electronics)
- Dr. Kashif Shamim (Physics)

<https://forms.gle/7k5qM7Rdicdm1tif6>



Either click on the link or Scan for Registration

Registration Details:

Registration Fee: ₹500
Last Date of Registration: 31st January 2026

Coordinator:

Prof. Seema Sharma, CIC (Prof-In-Charge),
A.N. College
Email :- seema_sharma26@yahoo.com

Contact for Technical / Lab Queries

Kundan Kumar (Lab Incharge)
Mob No. +91 9693283067
Email: kundankumar5767@gmail.com

Note: Certificates will be issued on the last day of workshop



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Date :- 12.02.2026 to 16.02.2026

Time:- 10:00 AM - 5:00 PM

DAY 1 12.02.2026

- Inauguration - Principal, A.N. College, Patna
- Orientation - Prof. Tripti Gangwar (Dept. of Chemistry)
- Crystallography - Prof. Seema Sharma (Dept. of Physics)

DAY 2 13.02.2026

- XRD – Lecture: 1 - Dr. Kashif Shamim (Dept. of Physics)
- XRD – Lecture: 2 - Dr. Seema Sharma (Dept. of Physics)
- Sample Preparation and Acquaintance with XRD Instrument - Mr. Kundan Kumar (C.I.C)

DAY 3 14.02.2026

- Analysis of the XRD Sample data - Dr. Ruchi Rashmi (Dept. of Electronics)
- UV-Vis Spectroscopy – Lecture: 1 - Dr. Nisha Kumari (Dept. of Chemistry)

DAY 4 15.02.2026

- UV-Vis Spectroscopy- Lecture: 2 - Dr. Nisha Kumari (Dept. of Chemistry)
- Sample Preparation and Analysis - Dr. Nisha Kumari (Dept. of Chemistry)

DAY 5 16.02.2026

- Assessment and Evaluation
- Valedictory and Certificate Distribution