



CSIR INTEGRATED SKILL INITIATIVE

CSIR-NCL SKILL DEVELOPMENT PROGRAM

“Drug Polymorphism and Pharmaceutical Multicomponent Solids”



FOR WHOM

- Students
- Academic Researchers
- Industrial Professionals

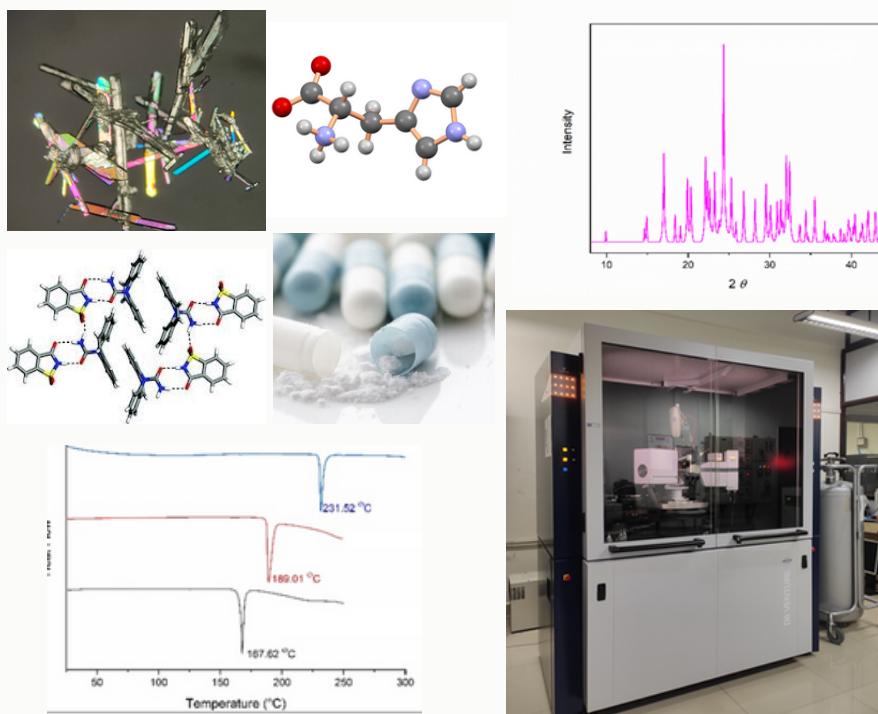
HOW TO APPLY

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

Here is the reason why
WHY CHOOSE US



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



ABOUT COURSE

Polymorphs, salts, hydrates, solvates and eutectics are gaining tremendous importance in pharmaceutical industries because of their ability to modify the physicochemical and pharmacological properties of APIs (Active pharmaceutical ingredients) enhancing their therapeutic efficacy. Therefore, pharmaceutical companies are focused on screening for APIs for polymorphism and the development aspects of novel salts/cocrystals that include physicochemical characterization, scale-up, processing and formulations of these materials. Therefore, pharmaceutical companies are looking for experts in the area of solid-state pharmaceuticals, especially having experience in developing novel solids of APIs with desired physicochemical and biopharmaceutical properties.

COURSE CONTENT

Introduction to different solid forms, solid state properties of pharmaceutical systems, co-amorphous and salts, crystal engineering and supramolecular chemistry, methods of preparation of polymorphs, salts and cocrystal screening, thermodynamics of different solid forms, structural aspects of different solid forms, characterization methods for polymorphs, salts and co-crystals (SCXRD, PXRD, DSC/TGA, IR, etc). Solid-state phase transformations, crystal structure analysis, regulatory aspects of polymorphs, salts and co-amorphous and eutectics.

PRIME INSTRUCTOR & TEAM

Dr. Rajesh G. Gonnade
Chief Scientist,
Physical & Materials' Chemistry
Division
Dr. Manish Kumar Mishra
Scientist,
Physical And Materials Chemistry
Division

COURSE DETAILS

Duration- 1 Week
Dates- 09th March to 16th March 2026
No. of Seats- 15
Eligibility- M.Sc , M.Pharm , Life Science
Course Fees -
Students - 5,900/-
Faculty - 11,800/-
Industrial Professional - 17,700/-
(The fees stated include 18% GST)
Accommodation-2 weeks + 2 days with affordable charges

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

