

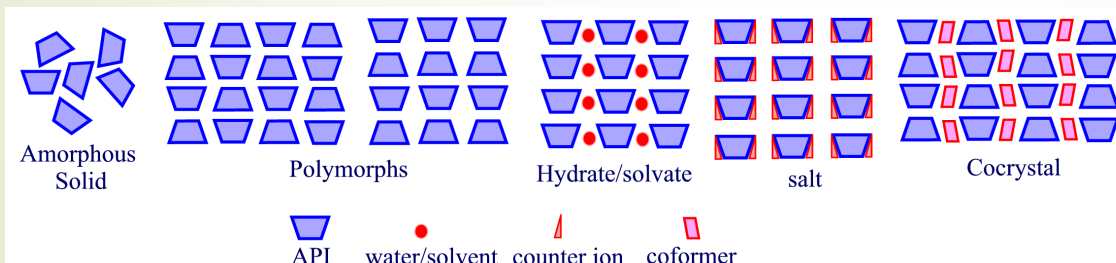


Skill Development Course in Drug Polymorphism & Pharmaceutical Cocrystals



About the course: Polymorphs, salts, hydrates, solvates and cocrystals are gaining tremendous importance in pharmaceutical industries because of their ability to modify physicochemical and pharmacological properties of APIs (Active Pharmaceutical Ingredients) which enhances 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. This necessitates the requirement of proper training course for the employees involved in the characterization, and formulation of pharmaceutical solids as well as to the post graduate students of Chemistry, Life Science and Pharmacy who can explore job opportunities after attending the proposed course. This course was envisaged and planned keeping in view the need of the pharmaceutical industry for the trained and skilled manpower for polymorph and cocrystal screening of APIs and the development aspects of these novel solid forms.

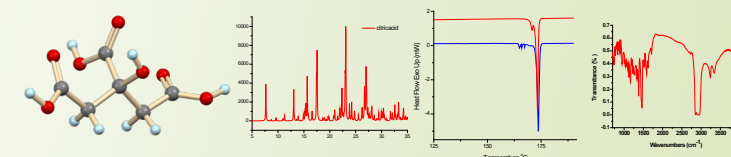
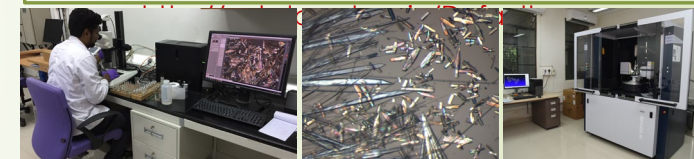
Crystalline forms



Course Content: Introduction to Different Solid Forms, Solid-state Properties of Pharmaceutical Solids, Theory and Principles of Polymorphic Systems, Cocrystals and Salts, Crystal Engineering and Supramolecular Chemistry, Salt and Cocrystal Design of Pharmaceutical Solids, Salt Selection, Methods of Preparation of Polymorphs, Hydrates, Solvates, Salts and Cocrystals, Polymorphs, Salt and Cocrystal Screening, Thermodynamics of Different Solid Forms, Structural Aspects of Different Solid Forms, Characterization Methods for Polymorphs, Salts and Cocrystals (SCXRD, PXRD, DSC/TGA, Raman, IR, NMR, etc.), Solid-state Phase Transformations, Crystal Structure Analysis, Regulatory Aspects of Polymorphs, Salts and Cocrystals.

Course Instructors: Dr. Rajesh G. Gonnade and team

Duration: 10th Oct to 21st Oct, 2022, 2 Weeks
 Number of Participants: 20
 Eligibility: M. Sc., M. Pharm., Life Sciences
 Course Fees:
 • Students: Rs. 7,000 + 1260 (18% GST)
 • Faculties: Rs. 25,000 + 4500 (18% GST)
 • Industry Participants: Rs. 50,000 + 9000 (18% GST)
 (Fee includes breakfast, tea and lunch)
 Accommodation (Two weeks + 2 days):
 ○ Students: Rs. 500/-
 ○ Faculty/Professionals: Rs. 1000/-
 Participants can make online payment only.
 For details see SDP website



How to Apply

Apply online at the following website
<http://nclsdnp.ncl.res.in/Default.aspx>

Mailing Address

Coordinator,
 CSIR-NCL Skill Development Program,
 CMC Division, CSIR- National Chemical
 Laboratory, Dr. Homi Bhabha Road, Pune-
 411008, India.

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