

About the course

Active molecules (pesticides, drugs, , nutrients, perfumes, detergents, proteins pesticides, drugs, peptides, etc.) when exposed to unfavorable conditions the molecules may become unstable, inactive and vary the physical or chemical properties. To avoid the above effects and to maintain the shelf life of the active molecules an inert supporting material is essential. The supporting material could be based on polymer or inorganic materials or combination of both. Depending on the suitability of the active molecules, the matrices and encapsulation in macro, micro and nano forms can be designed. In this workshop we describe the methods involved in preparation, characterization and analysis of the matrices and encapsulates. And also demonstrate methods to estimate the qualitative analysis of active molecules.

Instruments involved in these studies: HPLC, MS, UV-visible spectrophotometer, FTIR spectroscopy, electrospinning unit, and optical microscope (instruments as mentioned will be used for demonstration)
For whom: Industry sponsored candidates, entrepreneurs, students with science and biotechnology background.

Possible job opportunities: Consumer, agriculture, Pharma industries, academics, R & D labs and entrepreneurs.

Eligibility:
B.Sc./M.Sc./M.Pharm./PhD/Diploma/ Faculty/Pharma industry/Ag B.Sc./B.Tech/M.Tech in related filed.

Course Fees

Student: Rs. 5,000 /-
Faculty/Scientist/Technical staff: Rs. 10, 000./-
Industry sponsored candidates: Rs 20,000/-
Foreign Nationals: US \$1000
NRI: \$750
(Includes course material , breakfast, and lunch)

Accommodation Charges (course duration plus two days)
Student: Rs.500/-
Faculty / Professionals:Rs.1000/-

For application form please visit
<http://www.ncl-india.org/files/SDP/Default.aspx>

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(Application will also be accepted by e-mail)



Council of Scientific and Industrial Research
National Chemical Laboratory



Skill development Course in

**Controlled release of active
molecules : Hands on
preparation, characterization
and release studies of active
molecules**

Course Code → SDP_NCL16

05th to 16th September 2022
Selection: First come first serve basis

