

### About the course

Biodegradable polymers have been widely used in biomedical applications because of their known biocompatibility and biodegradability. There is a scarcity of Polymer engineers and Pharmacist to work in industries and for academia. This course knowledge and hands on experience will be highly useful for Polymer Engineers, Chemist and Pharmacist to go ahead in their career. The output of this course will be always augmented.

Dr.(Mrs) Baijayantimala Garnaik, Sr. Principal Scientist at NCL having more than 25 years experience in R&D and teaching is the mentor for this course.

**Course includes** - Design and methods of synthesis of biocompatible and biodegradable polymers, Chemical modification of natural occurring polymers in order to achieve the required properties for biomedical applications, Synthesis and Characterization of polymeric nanoparticles, micelles and vesicles, Polymeric nanofibers and drug containing polymeric nanofibers using electrospinning technique, Optimization of the electrospinning technique in order to obtain desired quality of 2D and 3D scaffold for biomedical applications( patches for wound healing and post surgical cancerous tumor), Pharmacokinetic study , In-vitro and in-vivo study, hands on practical experience of a biocompatible and biodegradable Polymer and its characterization.

### Eligibility:

M.Sc. Chemistry/B.Pharma/M.Pharma/PhD

### Course Fees:

**Academia / Students: Rs.10,000**

**Industry: Rs.25,000**

(Fee includes breakfast, and lunch)

### For application form visit

<http://www.ncl-india.org/files/SDP/Default.aspx>

Please mention batch number (Batch No.-1) in application form.

### Accommodation Charges

**(course duration plus two days)**

Students- Rs.500/-

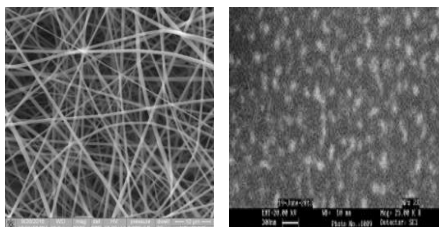
Faculty / Professionals- Rs.1000/-

### MAILING ADDRESS FOR SENDING APPLICATION

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

Email: [ncl.sdte@ncl.res.in](mailto:ncl.sdte@ncl.res.in)

(Application will also be accepted by email)



### CSIR –Integrated Skill Initiative



### Skill development Course in Biocompatible and Biodegradable Polymers as Delivery Vehicles for active Ingredient

Course Code – SDP\_NCL08

**First batch – Feb 19 - March 10, 2018**

No. of participants per batch - 10

Selection: First come first serve basis

