



CSIR-National Chemical Laboratory

Dr Homi Bhabha Road, Pune 411 008, India



CSIR-National Chemical Laboratory (CSIR-NCL), Pune is a science and knowledge based research, development and consulting organization and one of the premier chemical research laboratories in India under the flagship of Council of Scientific and Industrial Research (CSIR). CSIR-NCL has embarked on implementing 'Skill India' mission of the Government of India and has initiated the Integrated Skill Initiative programme of CSIR by offering number of skill development and skill upgradation courses to the graduate and postgraduate un-employed youth in addition to the industry staffs and workers. The main aim of these courses is to create the high-quality skilled workforce relevant to current and emerging industry need in the S&T sector through training/skilling in diverse areas at different National Skill Qualification Framework (NSQF). It further aims at promoting entrepreneurship through Skilling, Training of Trainers and Incubation Centre.

CSIR-NCL is offering following skilling/training courses during the year 2018. The tentative course duration is mentioned in the brackets for each course.

1. Gas chromatography (GC), gas chromatography–mass spectrometry (GC–MS), high performance liquid chromatography (HPLC) and liquid chromatography–mass spectrometry (LC–MS) (13 August to 31 August 2018)
2. Basic to advanced training in mass spectrometry based proteomics (23 July to 10 August 2018)
3. Basic to advanced techniques in industrial microbiology (22 November to 11 December 2018)
4. Cheminformatics theory and practice (23 July to 10 August 2018)
5. Embedded systems (27 June to 17 July 2018)
6. Drug polymorphism and pharmaceutical cocrystals (24 September to 12 October 2018)
7. Effective science communication (4 December to 20 December 2018)
8. Biocompatible and biodegradable polymers (19 February to 9 March 2018)
9. X-ray crystallography (11 June to 29 June 2018)
10. Training programme for preparation of natively unfolded proteins/molecular chaperones in human disease biology (4 November to 21 November 2018)
11. Basic to advanced training in infrared (IR) spectroscopy (12 March to 30 March 2018)
12. Spectroscopic measurement techniques – Raman, IR, UV-Vis and Fluorescence (SPECTEC) (24 September to 12 October 2018)
13. Basic training in electron microscopy and techniques (electron microscopic analyst) (13 August to 31 August 2018)
14. Basic training on spectroscopic ellipsometer, atomic force microscope, TGA/DTA, DSC, physical property measurement system (PPMS) and impedance spectroscopy (2 April to 27 April 2018)
15. Lab VIEW basics and applications (3 September to 21 September 2018)
16. Controlled release of active molecules: hands on preparation, characterization and release studies of active molecules (8 October to 26 October 2018)
17. Beyond genomes: functional genomics and genome editing technologies, and their applications (17 September to 5 October 2018)
18. Density function theory (DFT) for chemists and physicists (2 July to 21 July 2018)

Salient features of the training

• Theory and more importance to practicals	• Lectures assisted with multimedia aids
• Case study, group discussions	• Hands-on-practical experience
• Brief on alternate career options	• Updating with latest developments

We have successfully completed 5 courses in second half of 2017.

For further information please visit: www.ncl-India.org/sdp or e-mail: ncl.sdtc@ncl.res.in

Director/निदेशक, CSIR-NCL