Analytical Chemistry and Instrumentation Techniques

CSIR Integrated Skill Initiative

Schedule

- Date of commencement- April 1, 2019
- Duration of the course- 60 days
- No. of seats- 15
- Course Fee- Rs. 15000/- and Rs.25000 for sponsored candidates

Objectives

- To create a certified talent pool
- To focus on global market dynamics and prepare to meet the changing S&T requirements through novel skill/training initiatives.
- To promote entrepreneurship/technopreneurship through advanced skilling/training.
- To utilize CSIR Knowledgebase and infrastructure for contributing national skill mission.
- To implement special up-skilling/training programs for societal benefits; and
- To implement identified skill/training programmes of national skill mission

Topics to be Covered

- Basic principles in analysis.
  - ✓ General principles of chemistry; Basic statistical analysis; Chemical Information system; Laboratory safety etc.
- Analytical instrumentation techniques.
  - ✓ Hands-on training at the state-of-the-art instrumentation facility (IR, NMR, UV, GCMS, HRMS etc.)
- Synthetic organic and phytochemical techniques
  - ✓ Synthetic organic chemistry lab training; Chromatography techniques.
  - ✓ Fundamentals of natural product isolation, characterization

Job Opportunities

- Lab assistant in R&D, production units of fine chemical, pharmaceutical industries and CRO's.
- Analytical lab assistant in Quality control, Analytical R&D units of chemical, pharmaceutical industries and CRO's.
- Lab assistant /chemist in Government Institutions: IITs, IISERs, CSIR Labs, DST/DBT/DAE Institutes, Colleges and Universities.

Eligibility

B.Sc. in Chemistry / Industrial Chemistry or Diploma in Chemical Engineering

CSIR-NIIST

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