

CSIR- NIIST Thiruvananthapuram

(Under CSIR, Ministry of Science & Technology, Govt. of India) Analytical Chemistry and Instrumentation Techniques



Mode of Training: Offline

Schedule: August 3rd 2022 (1st batch) December 2022 (2nd batch)

Duration : 30 days

No. of Seats: 15

Course Coordinator Dr. Sasidhar B S

Course Fees: Students: Rs.10,000/-Sponsored*:Rs.20,000/-

Apply online: http://sdp.niist.res.in

Payment through Bank Transfer

The Director, CSIR-NIIST (Regional Research Laboratory) Account No: 67047723825 IFSC Code: SBIN0070030 Bank : State Bank of India, Pappanamcode Industrial Estate

*candidates sponsored by industries/ research organization/ colleges

Objectives

To enhance the knowledge of the students as well as technical level employees working in the institutes /industries who are practicing analytical chemistry and instrumentation techniques, and associated activities. To impart practical skills that would enable them to take knowledge based approach in R&D operations and maintenance of analytical and spectroscopic instruments. For students , the course would enable them to excel in careers related to scientific R&D institutions, pharmaceutical industries, analytical and testing laboratories.

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 etc.

Eligibility

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

Job Opportunities

- * Preparation of common laboratory reagents
- * Sample preparation, analysis and interpretation of results by FT-IR, NMR, UV/Vis, Fluorescence and Mass Spectroscopic techniques.
- * Basics of organic synthesis and purification of compounds
- Computer applications for chemical database, computer based statistical analysis, word, power point, origin & excel, Chem Draw.
- * Laboratory safety, handling of hazardous materials

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