



CSIR– NIIST Thiruvananthapuram

(Under CSIR, Ministry of Science & Technology, Govt. of India)

Techniques of Phytochemical Profiling and Characterization



Mode of Training:
Offline

Schedule:
18th October 2022

Duration: 30 days

Course Coordinator
Dr. K V Radhakrishnan

Course Fees:
Students: Rs.10,000/-
Sponsored*:Rs.15,000/-

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

- Understand the production of secondary metabolites in plants
- To familiarize with different phytochemicals and their classes.
- Understand the extraction techniques for secondary metabolites
- To familiarize with the isolation and purification techniques for secondary metabolites
- Hands on training on GCMS, Flash column chromatography and HPLC techniques

Topics to be covered

- An introduction to basics of phytochemistry with brief account of major classes of secondary metabolites with special reference to medicinal plant .
- Training on Data Collection methods, Literature Review, Patent search and reference management in phytochemistry research.
- Hands on training in phytochemistry laboratory on Extraction techniques. Separation and Purification techniques chromatography TLC, HPLC, HPTLC and GC-MS. And Characterization techniques- LC-MS, ID and 2D NMR experiments and introduction to Cell culture techniques

Eligibility

Bachelor of Science

Job Opportunities

- R & D laboratories working in the area of phytopharmaceuticals
- Quality control laboratories in industries working on herbal drug development.
- Ayurvedic and allied industries utilizing medicinal plants

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