

PHYTOCHEMICALS ANALYSIS TECHNICIAN

Skill development programme on scientific instrumentation for quality assessment of vegetable oil, essential oil, medicinal plant, food, herbal products and metabolomics using analytical tools (HPLC, GC-MS, LC-MS, HPTLC and AAS) to be undertaken for development of phytochemical analysis technicians. Hand holds practical training to be imparted on scientific instrumentation for phytochemical analysis of medicinal and aromatic plants. The major goal of the training is to develop phytochemical analysis technicians for qualitative and quantitative estimation of biologically active major metabolites of medicinal and aromatic plants using gas chromatography (GC), gas chromatography coupled with mass spectrometry (GC-MS) and liquid chromatography HPLC), atomic absorption spectroscopy etc. The training will also include metabolite profiling of medicinal plants using GC-MS and LC-MS and HPLC to analyze both polar and non-polar metabolites of primary and secondary metabolism of the medicinal and aromatic plant species. The training will provide opportunity to the trainee in various agro, pharma and herbal industries.

Salient features of the course

- Sample preparation
- Extraction
- Fractionation
- Physico-chemical analysis
- Operation and analysis by GLC, HPLC, GC-MS, LC-MS, HPTLC and AAS
- Qualitative & quantitative estimation of chemical metabolites
- Data interpretation
- Compilation of reports
- Awareness for NABL accreditation

Title of course	Phytochemicals Analysis Technician
Duration	240 hrs
Number of seats	15
Educational qualification	Graduate in Agriculture/ Science
Age group	20-50 years
Course fees	Rs. 5,000 (Rs. 20,000 for industry sponsored)
Venue of course	CSIR- National Botanical Research Institute, Lucknow
Name of Scientist	Dr. Alok Lehri
e-mail	a.lehri@nbri.res.in
Contact detail	0522-2297924
Residential/Non-residential	Non-residential

CERTIFICATION

Certificate will be issued to the successful candidates by the institute under CSIR Integrated Skill Initiative.