

Certificate Course III: Advanced Training Course in Phytochemical Analysis of Medicinal Plants using Advanced Analytical Techniques

Code: IICB-MP-01

CSIR-IICB proposes one training course on “*Phytochemical Analysis of Medicinal Plants using Advanced Analytical Techniques*” to generate skilled human resources for pharmaceutical sectors. The course is specially targeted to candidates having chemical/pharmaceutical background with basic knowledge in organic chemistry.

<b>Educational Qualifications</b>	:	B.Sc/ M.Sc. in Chemistry and B. Pharm/M.Pharm
<b>No. of seats</b>	:	20
<b>Age group</b>	:	18 and above
<b>Venue of the course</b>	:	CSIR-IICB

**Training Curriculum:**

- An introduction to phytochemistry
- Introduction to basic steps for isolation of phytochemicals
- Mutagenic and anti-mutagenic/anticancer effects of phytochemical extracts
- Molecular separation Techniques using different chromatographic methods
- High performance liquid chromatography (HPLC)/Flash chromatography (FC)
- Theoretical and practical training on NMR, IR, and Mass spectroscopy
- Structure elucidation of natural products

**Salient features of the courses:**

- 30% theory and 70% practical classes
- Tutorials will be provided by eminent scientists of organic and medicinal chemistry background
- Lectures will be provided with multimedia aids
- Hands-on training on state of art instruments such as HPLC, NMR, IR, Mass spectrometry etc.
- Professional skill development, case study, evaluation and certification.