

**Hands-on Training on  
“HPLC: Instrumentation, principle and function”  
on 14<sup>th</sup> November, 2025, at  
ICFRE-Institute of Forest Genetics and Tree Breeding, Coimbatore.**

The ICFRE–Institute of Forest Genetics and Tree Breeding (IFGTB), Coimbatore, organized a one-day hands-on training programme on “*HPLC: Instrumentation, Principle and Function*” for students, research scholars, and academicians on 14<sup>th</sup> November 2025. The training aimed to provide practical exposure to operating advanced analytical instruments, strengthen participants’ analytical skills, and enhance their competence in modern laboratory techniques.

A total of seventeen participants from diverse disciplines—including postgraduate students, Ph.D. scholars, M.Tech students in botany, zoology, plant pathology, as well as scientists and laboratory technicians—took part in the programme. Participants represented various institutions such as Annamalai University, Chidambaram; Bharathiar University, Coimbatore; DHR–Multidisciplinary Research Unit, Government Medical College, Thrissur; St. Joseph’s College, Trichy; Karunya Institute of Technology and Science, Coimbatore; PSG College of Arts and Science, Coimbatore; Dr. NGP Arts and Science College, Coimbatore; and Nirmala College for Women, Coimbatore.

Dr. N. Senthilkumar, Scientist-G, Chemistry and Bioprospecting Division, welcomed the participants and presented an overview of the training objectives. Dr. B. Nagarajan, Group Coordinator (Research), ICFRE–IFGTB, interacted with the participants and emphasized that the Institute regularly organizes specialized training programmes to enhance students’ skills and create awareness on core research areas related to bioresources.

The participants received hands-on training in sample collection and processing, extraction using various organic solvents, fractionation, and characterization of active compounds through chromatographic techniques such as HPLC and GC/MS/MS. They were also introduced to data interpretation and the assessment of biological properties of active compounds. Dr. D. Thangamani, Scientist-E, Chemistry and Bioprospecting Division, elaborated on the significance of bioprospecting in identifying potential bioactive molecules. Addressing the participants, Dr. Rekha R. Warriar, Scientist-G and Head, Chemistry and Bioprospecting Division, highlighted that students today are privileged to have access to advanced analytical equipment that were not available in earlier years. She acknowledged the positive feedback from trainees, particularly regarding the relevance and application of the techniques learned during the programme.

Participants expressed their appreciation for the training, noting that it enhanced their confidence to undertake research projects, pursue careers in industry, and explore entrepreneurial opportunities. The programme concluded with the distribution of certificates by the Group Coordinator (Research), followed by a formal vote of thanks.



Dr. B. Nagarajan, Group Co-ordinator Research, ICFRE-IFGTB, Coimbatore address the participants



Dr. Rekha R. Warriar, Scientist-G & Head gave a valedictory address





Hands on training to participants



Dr. D. Thangamani, Scientist-E, detailed the role of Bioprospecting in bioactive molecules identification





**Distribution of certificates to the participants**



**Training participants**