

Hands on Training on  
**“HPLC & GC-MS/MS: Instrumentation, Operation and Applications”**  
28<sup>th</sup> February, 2022, at IFGTB, Coimbatore

One Day hands on training on HPLC & GC-MS/MS: Instrumentation, Operation and Applications for students, research scholars, academicians and industrial personnel on payment was organized in Institute of Forest Genetics and Tree Breeding, Coimbatore on 28<sup>th</sup> February, 2022. The main aim of the training was to provide hands on experience to handle advanced instruments and upgrade the technical skills of participants in their core subjects. Thirty eight participants from various academic institutions, universities and colleges viz. PSG College of Arts and Science, Coimbatore; SNMV College of Arts and Science, Coimbatore; Dr. N.G.P. College of Arts and Science, Coimbatore; NGM College, Pollachi; Sri Ramakrishna College of Arts and Science, Coimbatore; Central Cotton Research Institute, Coimbatore; PSGR Krishnammal College of Arts and Science, Coimbatore; Orbito Asia Diagnostics, Coimbatore; Government Arts College, Coimbatore and CMS College of Science and Commerce, Coimbatore have participated in the training. The participants include under graduate and post graduate students of Biotechnology, Microbiology, Biochemistry, Zoology, Botany, Environmental Science, Environmental Biotechnology, Ph. D scholars, lab technicians, lecturers and R & D researchers.

The training coordinator Dr. N. Senthilkumar, Scientist -F and Head, Chemistry and Bioprospecting Division narrated the details about the selection, collection, processing and extraction of plant samples; fractionation and characterization of active compounds using various chromatographic methods viz., TLC, UV, HPLC and GC/MS/MS, followed by biological properties of active compounds thereof. Detailed hands on training was given through demonstration of HPLC and GC- MS-MS instrumentation including sample preparation, method of operation, method development, obtaining results and interpretation of data. During the valedictory function Dr. R. Yasodha, Scientist-G and GCR, IFGTB, Coimbatore had interacted with participants and assessed their skills through their feedback. Participants appreciated the training and stated that it is very useful for their academic activities and well suitable for their current and future research activities. They also thanked IFGTB for organizing such training on instrumentation methods, through which the participants are confident enough to work in Industries and motivation to become entrepreneurs. Dr. R. Yasodha, GCR, IFGTB, Coimbatore distributed the certificates to the participants and the training ended with formal vote of thanks by Smt. R. Sumathi, Chief Technical Officer.



**Introductory remarks by Dr. N. Senthilkumar, Training coordinator**



**Dr. N. Senthilkumar, Scientist -F narrating the training module to participants**





**Participants were given training on HPLC**



**Participants were given training on GC-MS-MS**



**A view of Participant's feedback**



**Dr. R. Yasodha, GCR distributed the certificate to the participant**