



## *Azadi ka Amrit Mahotsav*

### Hands on Training on “HPLC & GCMS/MS: Instrumentation, principle,function and Application”

On 27<sup>th</sup> July, 2022, at IFGTB, Coimbatore

One day hands on training on “**HPLC & GCMS/MS: Instrumentation, principle, function and Application**” for students, research scholars, academicians and industrial personnel was organized at Institute of Forest Genetics and Tree Breeding, Coimbatore on 27<sup>th</sup> July, 2022 as a part of celebration of **Azadi Ka Amrit Mahotsav**. The training aimed to provide exposure and hands on experience to handle advanced instruments and upgrade the technical skills of participants in their core subjects. Fourteen students from various academic institutions, Universities and colleges viz. Sri Ramakrishna College of Arts and Science, Coimbatore; Hindusthan College of Arts & Science, Coimbatore; Tamil Nadu Agricultural University, Coimbatore and Avinashilingam Institute for Home Science & Higher Education for Women, Coimbatore have participated in the training. The participants were under graduate and post graduate students of Biotechnology, Biochemistry and Ph.D. scholars of Agricultural entomology.

The training coordinator Dr. N. Senthilkumar, Scientist F and Head, Chemistry and Bioprospecting Division in his introductory talk briefed about forestry research. Then he narrated precisely about the selection, collection, processing and extraction of plant samples; fractionation and characterization of active compounds using various chromatographic methods viz., HPLC and GC/MS/MS, followed by biological properties of active compounds. 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 results. During the valedictory function Dr. C. Kunhikannan, Director, IFGTB, Coimbatore had interacted with the student participants and evaluated their skills randomly. He also stated that IFGTB is a renowned institute for organizing such trainings for student community to develop their skill in handling advance equipments and to bring awareness about core research on bio resources. Participants appreciated the training and opined that they had a chance to handle such advance equipments and gained knowledge about the protocols followed, sample analysis and interpretation of results. They also stated that the training will be very useful for their academic activities and 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 will help them to become entrepreneurs. Dr. C. Kunhikannan, Director, IFGTB, Coimbatore distributed the certificates to the participants and the training ended with formal vote of thanks by Smt. R. Sumathi, Chief Technical Officer.



**Participants were given overview of research activities**



**Participants were given training on HPLC**



**Participants actively involved in training**



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



**Director interacted with participants**



**Valedictory address by the Director, Dr. C. Kunhikannan, IFGTB, Coimbatore**



**Distribution of certificate to the participant by Dr. C. Kunhikannan, Director, IFGTB, Coimbatore**



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