

**A Report on two weeks “Summer Internship Training”  
(Skill India Development Programme)  
on  
“Biotechnology, Microbiology and Bioprospecting module”  
15<sup>th</sup> - 31<sup>st</sup> May, 2017**

Two weeks Summer Internship training on **“Biotechnology, Microbiology and Bioprospecting module”** has been conducted in **Institute of Forest Genetics and Tree Breeding, Coimbatore** during 15<sup>th</sup> - 31<sup>st</sup> May, 2017. Ten students from Karpagam University, PSG College of Arts & Science, Sri Ramakrishna College of Arts and Science, Coimbatore and Madras Christian College, Chennai participated in the training. The training module included Plant Biotechnology, Microbiology and Bioprospecting aspects related to forestry. Students were trained in DNA isolation, DNA markers, tissue culture, genetic transformation, Genomics, Controlled pollination and vegetative propagation under the plant Biotechnology module. In the Microbiology module, training on techniques of isolation, identification and mass production of beneficial bacteria/growth promoting bacteria and biofertilizer production were given. The students were also trained in 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; biological properties of active compounds for antioxidant, antimicrobial and biopesticidal properties under the Bioprospecting module. Resource persons such as Dr. V. Mohan, Dr. R. Yasodha, Dr. B Nagarajan, Dr. Modhumita Dasgupta, Dr. N V Mathish, Dr. Rekha Warriar, Dr. A. Karthikeyan, Dr. V.K.W.Bachpai, Dr. A Shanthi, Mrs. K Shanthi, Mrs. R. Sumathi, Mrs. R.Lakshmedevi Mrs. K.Sushamani and Dr. N. Senthilkumar were involved in this internship training.

The aim of training was to provide hands on training to the students to handle advanced instruments and upgrade their technical skill in their core subjects. During the concluding function, participants informed the Director, IFGTB, Shri. R.S. Prashanth, IFS and the Group Coordinator Research, Dr. S. Murugesan, Scientist G, that the training module and course content was appropriate as per their academic curriculum and future research endeavour as well. The training programme concluded with formal vote of thanks by Dr. N. Senthilkumar, Students Coordinator.

