

## **Hands on workshop on Drug Discovery and Development of Plant Resources – 20<sup>th</sup> to 23<sup>rd</sup> March 2018**

Four days hands on workshop on **Drug Discovery and Development of Plant Resources** held on 20<sup>th</sup> to 23<sup>rd</sup> March 2018, sponsored by **DST-PURSE** Scheme.



**Prof. M.B. Viswanathan, Organizing Secretary of the Workshop, with the participants**



**One of the participants collecting extract from Soxhlet apparatus**

On the first day, **Prof. M.B. Viswanathan, Organizing Secretary** of the Workshop, delivered inaugural speech wherein emphasis was given on the methodologies to develop drugs from plant resources. Then, training was imparted on collection, identification and authentication of plant materials, preparation of coarse powder of the plant material, extraction, biochemical analysis of the extracts, qualitative analysis of secondary metabolites in the extracts, including phenols, tannins, flavonoids, alkaloids, steroids, etc.



**Dr. S. Muthusamy, Professor, Department of Chemistry, explaining the applications FT-IR and NMR**



**The participants paying attention to the lecture**

During the second day, **Dr. S. Muthusamy, Professor, Department of Chemistry**, dealt with applications of FT-IR and NMR Data in the structural elucidation of the compounds. Then, training was given on various chromatographic techniques including TLC and Column chromatography, concentration of plant crude extracts, solvent – solvent partition chromatography, concentration of fractions, etc.

On the third day, the participants collected solvent fractions and mixed similar fractions after TLC and concentrated them.



**Dr. M. Sathiyabama, Associate Professor,  
issuing Certificate to the participant**

During the fourth day, the principle and operations of the High Performance Liquid Chromatography (HPLC) were given to the participants. The participants operated HPLC and quantified the bioactive compounds. Written test was conducted to assess the knowledge gained at the end of the Workshop and collected feedback from them.

Organizing Secretary distributed Certificates to a few participants and then **Dr. T. Senthil Kumar** and **Dr. M. Sathiyabama, Associate Professors in the Department of Botany**, issued Certificates to the participants. The Workshop ended with valedictory function.