

**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE-21**

**DEPARTMENT OF CHEMISTRY**

**A brief Report on the workshop Programme entitled “Interpretation of spectral data and identification of phytoconstituents” conducted on 26<sup>th</sup> & 27<sup>th</sup> of September 2018, for the 9<sup>th</sup> year in Karpagam Academy of Higher Education.**

Department of Chemistry has organized a workshop Programme on **“Interpretation of spectral data and identification of phytoconstituents”** on **26<sup>th</sup> & 27<sup>th</sup> of September 2018** for the 9<sup>th</sup> year. About 156 participants have participated in the workshop from different Educational Institutions. (Annexure-1). The programme was conducted in the Bharathi Hall, Karpagam Academy of Higher Education (10.00 am. to 4.00 pm.) on **26<sup>th</sup> & 27<sup>th</sup> of September 2018**. The inaugural address was given by **Dr. S.Muthusubramanian, CSIR-Emeritus Scientist, Madurai Kamaraj University, Madurai**. Then he gave a talk on the recent trends in the spectroscopic techniques. Then workshop was handled by Dr.S.Ravi, Professor & Head, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore.

The following trust areas were covered in two days Workshop Programme.

1. IR spectral data
2. <sup>1</sup>H-NMR and <sup>13</sup>C- NMR spectral data ( 1D and 2D- data)
3. DEPT, SEFT and INEPT Techniques
4. HSQC/HMQC data
5. Homo COSY and Hetero COSY data.
6. NOESY and HMBC data
7. Mass Spectral data
  - a. EIMS, FAB, MALDI techniques
  - b. ESI-MS/APCI-MS
  - c. GC-MS, LC-MS/MS data.

All the Faculty members, Research Scholars and Students were involved in forming the Committees to look into the various meticulous aspects of the workshop.

The participants were provided with a Workshop Manual which contains the important notes and features of the above said spectroscopy, examples of Spectra for interpretation and problems to work out during the programme. In addition to that a workshop kit which consists of a file cover, note pad, and pen was provided to facilitate the participants in the programme. Lunch and refreshments were also provided on both the days. There was an active interaction between the speakers and the participants. The participants worked out many spectral problems

in the workshop. There were few video shows also in the programme. The programme went on well both the days.



**A prayer song on the workshop Programme entitled “Interpretation of spectral data and identification of phytoconstituents” conducted on 26<sup>th</sup> & 27<sup>th</sup> of September 2018.**



**Dr.M.R.Ezhilarasi, lighting the kuthuvillaku in the inaugural session of the programme**



**The resource person explains how to interpret the IR spectral data**



**Dr.S. Ravi, the resource person explains how to interpret the NMR spectral data**