

**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 11th & 12th of October 2019, for the 10th 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 11th & 12th of October 2019 for the 10th year. About 133 participants have participated in the workshop. The programme was conducted in the MBA Hall, Karpagam Academy of Higher Education (10.00 am. to 4.00 pm.) on 11th & 12th of October, 2019. The inaugural address was given by **Dr. R. Ranjith Kumar, Assistant Professor, Department of Organic Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai** on 11th of October 2019 (forenoon session) and by Dr. S. P. Rajendran, Adjunct Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore on 11th of October 2019 (afternoon session). Then the workshop was handled by Dr. S. Ravi, Professor & Head, and Dr. A. Thangamani, Associate Professor, Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore on 12th of October 2019.

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

1. IR spectral data
2. ¹H-NMR and ¹³C- 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.



Dignitaries on the dais for the prayer song in the Inaugural function



Dr. S. P. Rajendran, Adjunct Professor welcoming the gathering for the programme



Dr. R. Ranjith Kumar, Assistant Professor, delivering a talk on NMR spectroscopy



Dr. A. Thangamani, clarifying the doubts of the students during the programme