

**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 1st & 2nd of September, 2017 in Karpagam Academy of Higher Education.

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Department of Chemistry has organized a workshop Programme on “**Interpretation of spectral data and identification of phytoconstituents**” on 1st & 2nd of September 2017. About 126 participants have participated in the workshop from different Educational Institutions. The programme was conducted in the Bharathi Hall, Sivam Block, Karpagam Academy of Higher Education (10.00 am. to 4.30 pm.) on 1st & 2nd of September, 2017. The workshop was handled by Dr. Chennan Ramalingan, Dean-School of Advanced Sciences & Associate Professor in Chemistry, Kalasalingam University, Anandnagar, Krishnankoil on 1st of September 2017 (forenoon session) and by Dr.V. Vijayakumar, Professor and Assistant Director, Centre for Organic and Medicinal Chemistry, School of Advanced Sciences, VIT University, Vellore on 2nd of September 2017 (forenoon session) and by Dr. S. Ravi, Professor and Head in the Department of Chemistry, Karpagam Academy of Higher Education, Coimbatore on 1st & 2nd of September 2017(afternoon session).

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

1. FT-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

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 well on both the days.



**Dignitaries lighting the kuthu vilaku on the inaugural day of the workshop programme
“Interpretation of spectral data and identification of phytoconstituents” conducted on
1st & 2nd of September, 2017**



**Dr. Chennan Ramalingan, the resource person giving the Key note address in the
programme**



Dr. V. Vijayakumar, from VIT University, Vellore explaining about the AD NMR techniques