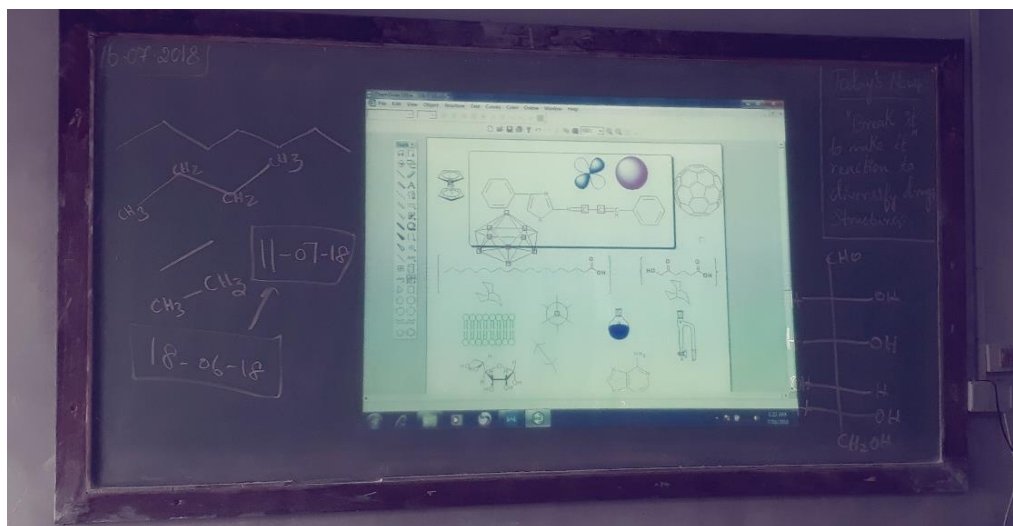


**KARPAGAM ACADEMY OF HIGHER EDUCATION  
COIMBATORE-21**

**DEPARTMENT OF CHEMISTRY**

**A brief Report on the Training Programme on “Drawing chemical structures using computer software s” conducted on 16<sup>th</sup> of July, 2018 in Karpagam Academy of Higher Education.**

Department of Chemistry has organized and conducted a hands on training programme on “**Drawing chemical structures using computer software**”. Dr. M.G. Gopalakrishnan, Assistant Professor, Department of Chemistry, conducted the Programme. Students showed immense interest in drawing the chemical structures and they are satisfied with the programme and they find that it will be useful in their project work. Dr. S. Ravi, Professor and Head, inaugurated the chemical structure drawing Programme. This is a complete entry-level structure drawing program, with all the tools we need to quickly create chemically intelligent, publication-ready chemical structures and reactions, laboratory notes and experiment write-ups. Beyond a full set of chemical structure essentials (e.g. rings, bonds, chains, atoms and functional groups), ChemDraw Prime includes property calculators, chemical and lab equipment templates and handy TLC and Gel Electrophoresis Plate drawing tools.



**The screen shot showing the drawings of the chemical structures using a software**

Chemical Structure drawing program includes the following features:

- Analyze and check structures
- Structure clean-up
- Expand and contract labels
- Create and use nicknames
- Tetrahedral and geometric stereochemistry, including absolute and relative
- Multicenter attachment points for haptic and other pi bonds
- Chemical polymer tools
- Calculate properties including pKa, LogP, LogS and tPSA and hotlink to structure
- Read and write all common chemical and graphics files
- Read J Camp and Galactic spectra files
- Fragmentation tools

In this session Dr. M. Gopalakrishnan discussed and suggested various tips and techniques for chemical reaction and their mechanism. 64 students attended the programme. He elaborated what can be done with the Chem Draw tool. All participants learnt many creative ideas about chemical structure drawing. Access to ChemDraw Cloud, biopolymer tools, BioDraw, NMR prediction, advanced Name to Structure, enhanced retrosynthesis tool, and even integration with chemical databases like including SciFinder.



**Dr. M. Gopalakrishnan explains how to draw chemical structures using the software's**



**Students drawing structures using softwares**