



**ST ALOYSIUS COLLEGE  
(AUTONOMOUS)  
MANGALORE 575 003**

DEPARTMENT OF  
**CHEMISTRY**

Offers

**Online Certificate Courses**  
in

- 1. Instrumental Methods & Separation Techniques in Chemical Analysis**
- 2. Forensic Chemistry – Scientific Approach to Crime Investigations**
- 3. Online Tools In Chemical Research**
- 4. Application of Analytical Chemistry in Food Laboratories**
- 5. Chemistry Drawings using Chemsketch Software**

Apply online

Register before November 25, 2021



For Registration Click Here:  
<https://bit.ly/3mi4cwA>

OR



---

## 5. Chemistry Drawings using Chems sketch Software

Course Coordinator: Dr Ronald Nazareth

**Objectives:** Chemistry Drawings using ChemSketch software is a 30 hours Certificate online course in training of basic chemistry software Chems sketch. This course aimed at imparting skills on use of open source chemistry tools that are essential for any student or researcher with chemistry. At the end of course, the participants will be able to use these software for drawing chemical structures, generation of their names, retrieve information about physical properties calculations, three-dimensional molecular structure calculations, spectroscopic signatures and other parameters efficiently.

**Highlights:** Practice sessions on presentations using Chems sketch.

**Eligibility:** All B.Sc. / M.Sc students who have studied chemistry at PUC level.

**Contents:** Introduction of ACD ChemSketch software, download and installation process, Drawing various chemical structures (acyclic, cyclic, polycyclic, heterocyclic), name generation from structures, conversion of name of molecule into its structure, calculation of physical properties such as density, molecular weight, molecular formula, refractive index from structural formula, bond angles, bond lengths, dihedral angles.

**Learning outcomes:** After successful completion of this course candidate will be able to use ACD ChemSketch for generation and processing of simple and complex chemical structures.

**Course duration:** 30 hours

**Timings:** 5.00 – 6.30 pm (Once a week)