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23032_Chemistry Drawings using ChemSketch software

DD (https://sac-elearning.com/profile/divya_monteirostaloysius-edu-in?view=instructor) By Divya Deepthi Monteiro (https://sac-elearning.com/profile/divya_monteirostaloysius-edu-in?view=instructor) Categories: Science and Technology (https://sac-elearning.com/course-category/science-and-technology/?tutor-course-filter-category=6)

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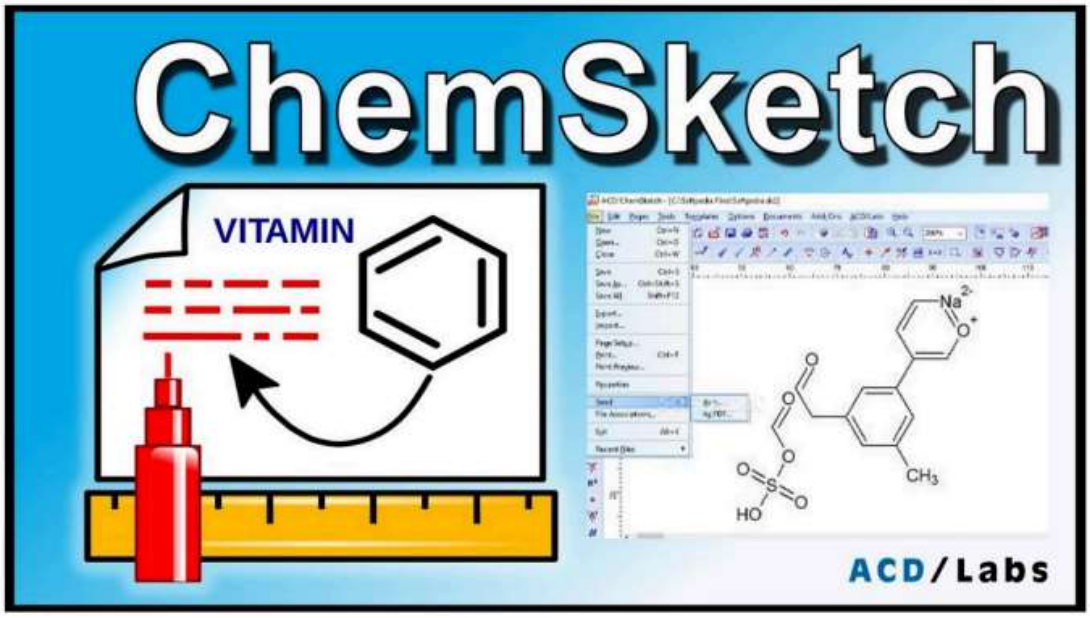

1. Chemistry Drawings using Chemsketch Software

Objectives: Chemistry Drawings using ChemSketch software is a 30 hours Certificate online course in training of basic chemistry software Chemsketch. 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 this 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 Chemsketch.

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)

Title of the Paper	**No. of hours / week**	**Marks**		
		C.I.A.		**Final Exam**
Chemistry Drawings using Chemsketch Software	1.5	3 Tests	25 marks each	100
		3 Assignments	25 marks	