





SHIVAJI COLLEGE UNIVERSITY OF DELHI NAAC ACCREDITED 'A' GRADE



Department of Chemistry (under the aegis of IQAC)

Add-on Course
on
"ChemDraw & Microsoft Excel
Applications in Chemistry"

(Online Mode) February - April, 2025

Who can attend?

This course is open for students of all courses of Shivaji College with basic knowledge of Chemistry. 20% of seats are open for students of other colleges/institute.

ABOUT COLLEGE

Shivaji College is a premier institution in West Delhi, accredited with grade 'A' by NAAC. It was ranked as one of the top 10 science colleges of the country in a survey conducted by India Today in 2017. It was established in 1961 by Hon'ble Dr Panjabrao Deshmukh, Union Minister for Agriculture and a renowned social activist and farmer-leader. The college offers twenty undergraduate courses in Science, Commerce and Humanities, a selffinancing course in Bachelors in Business Economics, three post-graduate courses. Several senior faculty members supervise Ph.D. scholars registered with University of Delhi, while some engage in UGC-sponsored major and minor research projects. Some students of the college frequently emerge as rank-holders in the University examinations and many are placed for internships in prestigious organizations annually.

ABOUT DEPARTMENT

Chemistry offers The department undergraduate courses in Chemistry with academically comprehensive syllabi to make one highly employable and provides required skills for scientific and technical roles. The nineteen highly experienced and dedicated teaching faculty is committed to guide students at every step and grooms them to become academically sound. The department has its own Library, scientific journals and magazines. The faculties published research publications in reputed iournals International and National repute. department has three state-of-art Chemistry laboratories with latest equipment along with all lab safety measures.

PATRON

Prof. Virender Bhardwaj

Principal

Shivaji College

CONVENOR (ADD ON COURSE)

Dr. Richa Arora

Assistant Professor Department of Chemistry

COURSE CONVENOR

Dr. Reeta

Assistant Professor Department of Chemistry

COURSE COORDINATOR

Dr. Yogesh Kumar

Assistant Professor Department of Chemistry



COURSE OBJECTIVE Objective of this course is to enrich the •

Excel features relevant to chemistry.

basic

applications of ChemDraw and Microsoft

These softwares helps the chemists in

prediction of physiochemical properties of

the drawn molecules, data organization,

WHY THIS COURSE?

This course gives a favor or weightage to

the students during the interview in

molecular

and

advanced

structures.

with

of

visualization, and analysis.

learners

drawing

Module 1: ChemDraw Applications

POINTS TO REMEMBER participants

fill

the

must

securing jobs or research opportunities. Knowledge of chemDraw helps drawing of chemical structure for better representation in publications reports. ChemDraw helps to predict and confirm the stereochemistry, NMR spectra and various chemical properties of the molecules.

Application of Excel tools help to solve quantitative problems in chemistry. The knowledge of excel facilitates the construction of professional graphs and

models for chemical applications.

Knowledge of Excel help to organize and

analyse chemical data.

in Chemistry

 Installation and applications Usage of ChemDraw tools

COURSE CONTENT

Drawing of Chemical molecules Conversion of the structures into IUPAC name and vice versa. Determination of stereochemistry,

formulae, bond length and bond angles. Prediction of NMR spectra and chemical shift values.

Conversion of the 2D structures to

molecular weight, chemical

3D. Save the molecules in different. formats.

· Export and import chemical molecules.

Summary of ChemDraw

Module 2: Microsoft Excel Applications in Chemistry

Introduction to Microsoft Excel in Chemistry

Basic Excel Functions for Chemists Data Analysis Tools in Chemistry

Data Visualization

Advanced Excel Tools in Chemistry Case Studies and Applications

Hands-on Practice and Exercises Final Summary, Q&A and Assessment Email: dr.reeta@shivaji.du.ac.in Mob. No.: 9582856184

registration form to enroll in the course. · Limited seats are available on first-

attendance.

The

come first-served basis. Certificates will be issued to students who complete the course successfully based on their assessment

Chemistry.

Classes will be held in online mode.

• Eligibility criteria : Class 12th with

LINK FOR REGISTRATION

NO REGISTRATION FEE Click here for the Registration https://forms.gle/C8ixcW5C4mo1Eoke6



Last date of Registration: 31st January 2025

Contact Details:

Dr. Reeta Department of Chemistry

Shivaji College University of Delhi