

Estd. June 1964

“Education for Knowledge, Science and Culture.”

– Shikshanmaharshi Dr. Bapuji Salunkhe

Shri. Swami Vivekanand Shikshan Sanstha's

**VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)**

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UGC Recognition Under 2 F & 12(B) UGC Act 1956

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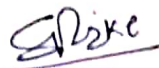
Department of Chemistry

Course Outcomes (COs): Chemistry

B. Sc. Part I Chemistry (NEP Phase II Introduced in the year 2024-25)	
Semester I	
DSC-I: Inorganic Chemistry (2DSC03CHE11)	
CO No.	On completion of the course, student will be able to:
CO1	Learn introductory inorganic chemistry and understand size, shape and electron distribution in shells and sub-shells of an atom.
CO2	Impart different types of bonds and nature of bonding in inorganic compounds, calculations of different energies associated with ionic bonding.
CO3	Acquire knowledge of nature of bonding, geometry, stability and magnetic characters of covalent compounds by applying VBT.
CO4	Learn various characteristics and compounds of group 13, 14 and 15 in periodic table.
DSC-II: Organic Chemistry (2DSC03CHE12)	
CO No.	On completion of the course, student will be able to:
CO1	Understand the fundamental concepts in Organic Chemistry.
CO2	Learn the spatial arrangement of atoms of organic molecule and their effect on properties of organic molecules.
CO3	Gain knowledge about heterocyclic compounds and its properties.
CO4	Impart concepts of aromaticity as well as electrophilic substitution reactions.
Semester II	
DSC-III: Physical Chemistry (2DSC03CHE21)	
CO No.	On completion of the course, student will be able to:
CO1	Acquire knowledge of basic concepts and applications of thermodynamics.

CO2	Gain knowledge about basic concepts in kinetics and first order, second order reactions with characteristics.
CO3	Learn properties of liquid and apply this for the determination by various techniques.
CO4	Understand basic concepts in electrochemistry, conductors and conductivity cells, measurement of conductance.
DSC-IV: Analytical Chemistry (2DSC03CHE22)	
CO No.	On completion of the course, student will be able to:
CO1	Learn concepts of analytical chemistry.
CO2	Understand the various aspects of industrial chemistry such as MSDS, preparation of various solutions and IPR.
CO3	Acquire knowledge of chromatographic separation technique such as Paper and Thin layer chromatography.
CO4	Gain theoretical concepts of various volumetric titrations.




HEAD
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 VIVEKANAND COLLEGE, KOLHAPUR
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