Maratha Vidya Prasarak Samaj's

COMMERCE, MANAGEMENT AND COMPUTER SCIENCE (CMCS) COLLEGE, NASHIK

Udoji Maratha Boarding Campus, Gangapur Road, Nashik-422013

NAAC Accredited "B" Grade (CGPA 2.29)

B.Sc. Chemistry
COURSE OUTCOMES

Subject	Course Outcomes (F.Y.B.Sc)
Physical Chemistry	CO1 Students will be able to apply thermodynamic principles to physical and chemical process. CO2 Calculations of enthalpy, Bond energy, Bond dissociation energy, resonance energy. CO3 Variation of enthalpy with temperature –Kirchoff's equation. CO4 Third law of thermodynamic and its applications. CO5 Relation between Free energy and equilibrium and factors affecting on equilibrium constant. CO6 Gas equilibrium, equilibrium constant and molecular interpretation of equilibrium constant. CO7 Concept to ionization process occurred in acids, bases and pH scale. CO8 Related concepts such as Common ion effect hydrolysis constant, ionic product, solubility product.
Organic Chemistry	CO1 The students are expected to understand the fundamentals, principles, and recent developments in the subject area. CO2 It is expected to inspire and boost interest of the students towards chemistry as the main subject. CO3 To familiarize with current and recent developments in Chemistry. CO4 To create foundation for research and development in Chemistry.

Inorganic Chemistry	CO1 Various theories and principles applied to revel atomic structure. CO2 Origin of quantum mechanics and its need to understand structure of hydrogen atom. CO3 Application of non-bonded lone pairs in shape of molecule. CO4 Explain rules for filling electrons in various orbitals- Aufbau's principle, Pauli exclusion principle, Hund's rule of maximum multiplicity.
Analytical Chemistry	CO1 Calculations of mole, molar concentrations and various units of concentrations which will be helpful for preparation of solution. CO2 Relation between molecular formula and empirical formula. CO3 Basics of chromatography and types of chromatography. CO4 Compare qualitative and quantitative analyses.
Chemistry Practical 1&2	CO1 Determination of physical constant: Melting point, Boiling point. CO2 drawing organic molecule and arrow pushing concepts. CO3 Strength of Acid and Base. CO4 Common names and IUPAC nomenclature system of chemicals. CO5 Name oh Alkane, Alkanes, Alkenes and Alkynes. CO6 Preparation methods of Alkane, Alkenes and Alkynes including Hydrocarbons. CO7 Application of Hackle's rule of organic compounds to find the compounds are aromatic/ non aromatic.

C. M. C. S. COLLEGE NASHIK 422 013

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