



“ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार”

-शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur's

Ramkrishna Paramhansa Mahavidyalaya, Osmanabad

(Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

|| NAAC Reaccredited 'B+' Grade || || DBT-STAR College by Govt. of India ||

|| UGC STATUS: College with Potential for Excellence ||



Course Outcomes

Department of Chemistry

B.Sc. I year (Semester-I)	
Inorganic Chemistry (CHE-111)	
CO1	Understand atomic structure and Periodic properties
CO2	Understand Chemical bonding and Molecular structure
CO3	Knowledge about VBT and VSEPR theory
CO4	Knowledge about MOT theory
Heat and Thermodynamics (CHE-112)	
CO1	Understand the mechanism of organic reaction
CO2	Knowledge about Stereochemistry
CO3	Information about benzene and its types
CO4	Understand chemical reaction of alkyl and aryl halides
CO5	General study of Alcohols and Phenols
B.Sc. I year (Semester-II)	
Physical Chemistry (CHE-211)	
CO1	Understand basic concepts of thermodynamics and thermochemistry
CO2	Knowledge of chemical equilibrium
CO3	Knowledge of gaseous state
CO4	Knowledge about Chemical kinetics
Applied Chemistry (CHE-212)	
CO1	Understand basic concepts of chromatography
CO2	Knowledge about drugs
CO3	Understand the study of glass
CO4	Knowledge about principles and applications of Ultraviolet spectroscopy
CO5	Understand analysis of fertilizers
B. Sc. II Year (Semester-III)	
Organic Chemistry (CHE-311)	
CO1	Understand classification, nomenclature, preparation, reactions of aldehydes and ketones.
CO2	Understand preparation methods, Physical and Chemical properties of carboxylic acids.
CO3	Understand classification, nomenclature, preparation, reactions of Amines and Diazonium

	salts.
CO4	Understand classification, nomenclature, preparation, reactions of Heteronuclear aromatic compounds.
CO5	Understand the stereochemistry of cyclohexane.
CO6	Knowledge about active methylene compounds.
Physical Chemistry (CHE-312)	
CO1	Understand details about surface chemistry.
CO2	Understand the knowledge about phase equilibrium.
CO3	Understand details of quantum chemistry.
CO4	Understand details about photochemistry.
CO5	Understand basics of conductometry.
CO6	Understand basics of colorimetry.
B.Sc. II year (Semester-IV)	
Inorganic Chemistry (CHE-411)	
CO1	Understand Nomenclature, preparation, isomerism of Co-ordination compounds.
CO2	Understand Valance bond theory of Co-ordination compounds.
CO3	Understand details of Crystal field theory.
CO4	Understand details of Oxidation and Reduction.
CO5	Knowledge about volumetric analysis.
Applied Chemistry (CHE-412)	
CO1	Understanding of Infrared Spectroscopy in detail.
CO2	Understanding of Raman Spectroscopy in detail.
CO3	Knowledge about dyes and pigments.
CO4	Knowledge about polymerization.
CO5	Knowledge about cosmetics.
B. Sc. III Year (Semester-V)	
Physical Chemistry (CHE -XIII)	
CO1	Understand elementary quantum mechanics.
CO2	Knowledge about electromagnetic radiation of spectrum.
CO3	Understanding of difference between thermal and photochemical Process.
CO4	Knowladge of saponification value, iodine value.
Organic Chemistry (CHE-XIV)	
CO1	Understand NMR spectroscopy.
CO2	Knowledge of synthetic application of Graiganards reagent.
CO3	Understanding of ednolate ion, enolisation, tautamerisum.
CO4	Overview of fiber cables and different fiber fabrication techniques.
B. Sc. III Year (Semester-VI)	

Physical Chemistry (CHE -XVI)	
CO1	Knowledge of synthesis of different hetrocyclic comp.
CO2	Understand Interconversion of glucose.
CO3	Describe Preparation and synthetic application of polymers.
CO4	Understand Synthesis of different dyes.
Organic Chemistry (CHE -XVII)	
CO1	Understand NMR spectroscopy.
CO2	Knowledge of synthetic application of Graiganards reagent.
CO3	Understanding of ednolate ion, enolisation, tautamerisum.
CO4	Overview of fiber cables and different fiber fabrication techniques.