Dr. B.B HEGDE FIRST GRADE COLLEGE KUNDAPURA

Department of Chemistry

Course Outcome as per National Educational Policy

Code	Course Nane: Chemistry	Course Outcome
DSC-1	Analytical and Organic Chemistry-I	• The concepts of chemical analysis, precision and stastical data treatment • Prepare the solutions after calculating the required quantity of salts in preparing the reagents/solutions the conversion factor for determination. • Handling of toxic chemicals, concentrated acids and organic solvents and practice safety procedure. • The concepts of organic reactions and techniques of writing the movements of electrons, bond breaking,bond forming.
DSC-2	Inorganic and Physical Chemisty-I	• The Bohr's theory of atomic structure and how it was developed. • Quantum numbers and their necessity in explaining the atomic structure. • The concept of unit cell, Symmetry elements, Nernst

		distribution law.
BSCCHCN301	Analytical and Organic Chemistry-II	• The concept of chromatography and its application. • The study of nomenclature of organic compounds and its various projection. • Study of reaction mechanism.
BSCCHCN401	Inorganic and Physical Chemisty-II	• The concept of thermodynamics and derivations • Study of structure of unit cell of various ionic crystals. • Electrochemistry and its application
BSCCHCN501	Inorganic and Physical Chemistry	• Understand the types of bonding in compounds and the theories to explain them • Understand nuclear reactions, the importance of nuclear phenomenon, radiation chemistry & it's applications. • Know the application of Quantum mechanics to particle in a box and hydrogen atom. • Know chemistry of main group elements and acid base concepts. Know chemical dynamics and kinetics of chemical reactions.

BSCCHCN502	Organic Chemistry and Spectroscopy	• Differentiate aliphatic and aromatic compounds, understand the concept of resonance and write simple reaction mechanisms. • Identify some of the heterocyclic compounds, their structure and physiological properties. • Have the basic knowledge of molecular spectroscopic methods like rotational, vibrational, Raman, NMR and UV Spectroscopy.
BSCCHCN601	Inorganic and Physical Chemistry	• Know the Kinetics of complex formation and also the electronic spectra of complexes which will help them in selecting the methods of synthesis and identification of complex compounds. • Understand the theories of bonding in complex compounds. • Understand the principle of steam distillation and separation of components of binary mixtures. • Get introduced to

		thermal methods of analysis. • Understand the concept of galvanic cells and potentiometric methods of quantitative analysis.
BSCCHCN602	Organic Chemistry and Spectroscopy	• Know the mechanism of selected electrophilic and nucleophilic substitution reactions • Understand the mechanism of addition reactions in organic compounds. • Get exposure to symmetry and group theory. • Get introduction to photo electron spectroscopy and flame photometry.

HOD

H.O.D. Chemistry
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PRINCIPAL

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