

DEPARTMENT OF CHEMISTRY

PROGRAMME OUTCOME:

After completion of B.Sc Degree Course chemistry as one of their optional subject students gained the theoretical and practical knowledge of handling chemicals, Apparatus and equipments. Also they expand the knowledge and available opportunities related to chemistry in government services through Karnataka public service commission particularly in the field of food safety, health inspector, pharmacist science teacher etc. Apart from the above they have the opportunity in chemical industry like cement industry, agrochemical product, paint industries, electroplating industries, petrochemicals, rubber etc as well as environment control or pollution control board. Finally they can also have the opportunity to go for M.Sc chemistry.

Specific Programme Outcome

1. Students will become familiar with the different branches of chemistry like analytical, organic, inorganic, Nuclear, polymer, Environmental, industrial and Biochemistry etc.
2. Apply appropriate technique for the qualitative and quantitative analysis.
3. The ability to explain chemical nomenclature, structure, reaction mechanism, reactivity and functions in their specific field of chemistry.
4. Acquire the ability to synthesis separate and characterize compound using laboratory & instrumental technique.
5. Help in understanding the causes of environment pollution and can open up new methods for environment pollution control.
6. Easily assess the properties of all elements discovered their physical & chemical nature and role in the daily life.

COURSE OUTCOMES	
COURSE	OUTCOMES
Chemistry Paper I Code A220	To enable the students to learn the basic functions atomic structure and periodicity, Volumetric analysis organic reaction mechanism, alkanes and cycloalkanes, alkenes and alkynes, liquid and solid state and Gaseous state
Practical – I Code A222	Volumetric Analysis

Chemistry Paper II	S-Block elements (alkali and alkaline earth metals), P- block elements, Arenes and Aromaticity, Aromatic nitro compounds, Nernst's distribution law, liquid mixtures & phase equilibria.
Practical – II Code B222	Qualitative analysis of Organic Compounds
Chemistry Paper III CODE C220	Chemical Bonding, Non-aqueous solvents, Alcohols, Phenols, Ether and Epoxides, Chemical Kinetics, and Thermodynamics.
Practical III Code- C222	Inorganic Semi Micro Qualitative analysis
Chemistry Paper IV CODE D220	Nuclear Chemistry, d-block elements and f-block elements, Aldehydes & ketones stereo chemistry, physical properties of liquids, Thermodynamics – II and spectroscopy.
Practical IV Code-D222	Physical Experiments (Non-instrument)
Chemistry V Paper 5.1	Organometallic Chemistry, Bioinorganic chemistry, inorganic polymers, heterocyclic compounds, organometallic compounds spectroscopy of organic compounds, Electro chemistry Catalysis, chemical equilibrium
Practical V (5.1) Code –E232	Chromatographic Technique and Organic Estimation

Chemistry V (5.2)	Coordination compounds, organic reagents in inorganic Analysis, Carbohydrates, Terpenoids Alkaloids, Vitamins and Hormones, Photochemistry Physical Properties and molecular structure, kinetics of complex reactions.
Chemistry V Practical Paper 5.2	Physical Chemistry Experiments (instrumental)
Chemistry VI Paper 6.1 Code F230	Industrial chemistry, Metallurgy, Amnes Ammino

	acids, Peptides and proteins, Enzymes, colligative properties and Electromotive force Gravimetric estimations.
Chemistry VI Paper 6.2 Code F240	Analytical Chemistry, Industrial organic Chemistry and Environmental Chemistry.
Practical-VI Paper 6.2 Code –F242	Organic Preparations