

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 1

Paper I , Title – Physical Chemistry

At the end of this paper

- 1) Student will be able to explain the mathematical concepts.
- 2) Student will be able to understand about states of matter i.e solid state , liquid and gaseous state.
- 3) Student will be able to understand about rate of the reaction and how temperature affect the rate of a reaction.
- 4) Student will be able to understand about chemical equilibrium and its application in our life.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 1

Paper II , Title - Inorganic Chemistry

At the end of this paper

1. Student will be able to understand the structure of atom and why we need quantum chemistry.
2. Student will be able to understand the role of periodicity in periodic table.
3. Student will learn about different type of chemical bondings and how these help in analysis of shapes and structure of different types of molecules
4. Student will be able to explain why we need a further division in the periodic table like s, p, d & f blocks.
5. Student will be able to understand the details of s & p block elements and what are the significance of these elements in our daily life.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 1

Paper III , Title - Organic Chemistry

At the end of this paper

- 1) Student will be able to understand about structure and bonding of basic organic molecules.
- 2) Student will be able to understand about hydrocarbons and their uses in our life.
- 3) Student will be able to understand about stereochemistry of organic compounds.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 2

Paper I , Title – Physical Chemistry

At the end of this paper

1. Student will be able to understand about thermodynamics & thermochemistry and its significance in our life.
2. Student will be able to understand about phase equilibrium and its importance.
3. Student will be able to understand about electrochemistry.
4. Student will be able to understand about surface chemistry.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 2

Paper II , Title - Inorganic Chemistry

At the end of this paper

1. Student will be able to understand about d block elements their magnetic properties, spectral properties , chemical behavior and applications.
2. Student will be able to explain how modern day chemistry is all about coordination compound
3. Student will be able to understand about f block elements properties.
4. Student will be able to understand about abot basics of solvent system.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 2

Paper III , Title - Organic Chemistry

At the end of this paper

1. Student will be able to understand about chemical properties, physical properties and methods of preparation of alcohol , phenols and ethers.
2. Student will be able to understand about chemical properties, physical properties and methods of preparation of aldehyde and ketones.
3. Student will be able to understand about chemical properties, physical properties and methods of preparation of carboxylic acids and esters.
4. Student will be able to understand about chemical properties, physical properties and methods of preparation of nitrogen containing organic compound.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 3

Paper I , Title – Physical Chemistry

At the end of this paper

1. Student will be able to understand about why quantum chemistry requires and how it is different from classical theories.
2. Student will be able to understand about MOT.
3. Student will be able to understand about spectroscopy i.e rotational spectra , vibrational spectra and raman spectroscopy.
4. Student will be able to understand about photochemistry.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 3

Paper II , Title - Inorganic Chemistry

At the end of this paper

1. Student will be able to understand about HSAB concept.
2. Student will be able to understand about silicones and phosphazenes.
3. Student will be able to understand about metal ligand bonding in metal complex.
4. Student will be able to understand about magnetic properties of TM complex.
5. Student will be able to understand about electronic spectra of TM complex.
6. Student will be able to understand about bioinorganic chemistry and its role in our life.

Learning Outcome of Syllabus

Subject- Chemistry

Class - B.Sc. 3

Paper III , Title - Organic Chemistry

At the end of this paper

1. Student will be able to understand about ^1H NMR spectroscopy for the structure elucidation of organic compounds.
2. Student will be able to understand about Organo-Metallic compound.
3. Student will be able to understand about carbohydrates, fats, oil and detergents, also learn about their importance in our life.
4. Student will be able to understand about amino acids , peptides and their structure and application.
5. Student will be able to understand about synthetic dyes.