

SVD Government Degree College (W), Nidadavole

Department of Chemistry

Course Outcomes

CBCS / Semester System (w.e.f. 2020-21 Admitted Batch)

of

I Semester: Chemistry –I

Inorganic and physical chemistry

II Semester :Chemistry -II

physical chemistry and general chemistry

III Semester: Chemistry –III

organic chemistry and spectroscopy

IV Semester: Chemistry – IV (A)

Inorganic and physical chemistry

IV Semester:Chemistry-IV(B)

Inorganic and physical chemistry

I semester Chemistry-1
Inorganic and physical chemistry

(Total Hrs of teaching -60@4hrs/wk)

Aim and objectives of Course:

- ◆ This course aims to provide basic concepts of p&d block elements.
- ◆ It introduces the concepts of the solid, liquids & gaseous states.

Learning outcomes of Course :

- ◆ Understand the basic concepts of p- block elements
- ◆ Explain the difference between solid, liquid and gases in terms of intermolecular interactions.
- ◆ Apply the concepts of gas equations, pH and electrolytes while studying other chemistry.

II Semester-chemistry-II

Physical and general chemistry

(Total Hrs of teaching -60@4Hrs/wk)

Aim and objectives of Course:

To introduce the fundamental concept of organic compounds and formulate the mechanism of organic reactions.

Learning outcomes of Course:

At the end of the course, the student will be able to;

- ◆ Understand and explain the differential behavior of organic compounds based on fundamental concepts learnt.
- ◆ Formulate the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved .
- ◆ Learn and identify many organic reaction mechanism including Free Radical Substitution Electrophonic Addition and Electrophonic Aromatic Substitution.
- ◆ Correlate and describe the stereochemical properties of organic compounds and reactions.

III Semester: Chemistry –III
Organic chemistry and spectroscopy

(Total Hrs of teaching -60@4Hrs/wk)

Aim and objectives of Course:

To understand the preparation methods and properties of haloalkanes and Allene's Using synthetic chemistry..

Learning outcomes of Course:

At the end of the course, the student will be able to;

- ◆ Understand preparation, properties and reactions of haloalkanes, haloarenes and oxygen containing functional groups.
- ◆ Use the synthetic chemistry learnt in this course to do functional group transformations.
- ◆ To propose plausible mechanisms for any relevant reaction

IV Semester: Chemistry-IV(A)
Inorganic, Organic and physical chemistry

(Total Hrs of teaching -60@4Hrs/wk)

Aim and objectives of Course:

To introduce the Organometallic compounds and amino acids

To know about the carbohydrates and nitrogen containing functions groups.

Learning outcomes of Course:

At the end of the course, the student will be able to;

- ◆ To learn about the laws of absorption of light energy by molecules and subsequent photochemical reactions.
- ◆ To understand the concept of quantum efficiency and mechanisms of photochemical reactions.

IV Semester:Chemistry-IV(B)
Inorganic ,organic and physical chemistry
(Total hours of teaching-60@4Hrs/wks)

Aim and objective of course:

To learn about applications of spectroscopy and various types of spectra

Learning outcomes of course:

At the end of the course, the student will be able to;

- ◆ Understand concepts of boundary conditions and quantization, probability distribution, most probable values, uncertainty and expectations values.

- ◆ Application Of Quantization To Spectroscopy.

- ◆ Various types of spectra and their use in structure determination.