

DEPARTMENT OF CHEMISTRY

SEMESTER- I

CODE: CHE101

OUTCOMES

After the successful completion of the course, students should be able to:

- Differentiate the type of bonds present in the given molecule.
- Identify hybridization, structure of molecules and their bond angles.
- Interpret the Factors responsible for any Organic chemical reaction to take place.
- Identify the composition of matter which is made up of atoms and molecules.
- Describe the characteristics of states of matter and how states of matter are affected by the parameters (Pressure, Volume and Temperature)

SEMESTER- III

CODE:CHE301

COURSE OUTCOME:

Inorganic Chemistry

- Predict the nature of lanthanides and actinides and their influence on the other elements of periodic table
- Analyze the geometry, stability, magnetic properties and isomerism of coordination compounds
- With the basics of 18 valence electron rule, It will help students to predict the stability of metal carbonyls
- Using the knowledge of organometallic compounds, students can design new synthetic pathways for the synthesis of novel compounds, Hence creating a interest in research and development.

Laboratory Course

SEMESTER-IV

CODE: CHE401

Qualitative Analysis of Organic Compounds:

Outcomes :

Will learn and implement the ethics of the laboratory rules while performing the experiments

- Develop the skills of handling various instruments such as Bunsen burner,
- Experiential learning in the Qualitative analysis: Identification of organic compounds through the functional group analysis
- Can identify any unknown compound after performing experiment, this improves and builds their confidence in the synthesis of new compounds and identifying them qualitatively

SEMESTER –V

Laboratory Course

Experiments in Physical Chemistry-I

CODE:CHE501

Outcomes:

- Developed skills in procedures and instrumentations
- Skills in the scientific method of planning, developing, conducting, reviewing and reporting experiments
- Understanding of the professional and safety responsibilities when working with chemical systems

SEMESTER - VI

Laboratory course

Experiments in Physical Chemistry-II

Paper VI (Physical Chemistry)

CODE:601

outcomes:

- Developed skills in procedures and instrumentations
- Gain knowledge on Principle involved in conductometry, potentiometry and pH metry and their uses in qualitative and quantitative analysis.
- Skills in the scientific method of planning, developing, conducting, reviewing and reporting experiments
- Understanding of the professional and safety responsibilities when working with chemical systems