Department of Chemistry

Course Outcomes

I Semester /Chemistry Core Course - 1

(Inorganic &Physical Chemistry)

On successful completion of this course, the students will be able to:

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

II Semester /Chemistry Core Course – 2
(Organic & General Chemistry)

On successful completion of this course, the students will be able to:

- Under stand 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.
- LearnandidentifymanyorganicreactionmechanismsincludingFreeRadical Substitution, Electrophilic addition and Electrophilic Aromatic Substitution.
- Correlateanddescribethestereochemicalpropertiesoforganiccompoundsand reactions.

III Semester /Chemistry Core Course - 3

ORGANICCHEMISTRY&SPECTROSCOPY

On successful completion of this course, the students 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.
- 3. To propose possible mechanisms for any relevant reaction

IV Semester/ Chemistry Core Course – 4
INORGANIC, ORGANIC AND PHYSICAL CHEMISTRY

On successful completion of this course, the students will be able to;

- Tolearnaboutthelawsofabsorptionoflightenergybymoleculesandthesubsequentphotochemical reactions.
- Tounderstandtheconceptofquantumefficiencyandmechanismsofphotochemicalreactions.

IV Semester / Chemistry Core Course –5
INORGANIC &PHYSICAL CHEMISTRY

On successful completion of this course, the students will be able to:

- Understand concepts ofboundaryconditionsandquantization,probabilitydistribution,mostprobablevalues, uncertainty and expectation values
- Application of quantization to spectroscopy.
- Various types of spectral and the instrumental determination.

Project work

- Skill in operating laboratory equipment, their upkeep, and adept at various biological techniques.
- Develop Ability to prepare solutions and prepare different dilutions.
- Interpreting scientific results, and ability to present results in a scientific way through graphs, photographs, poster presentations
- Develop ICT skills and Power point presentations.
- Develop the art of scientific writing and presentation of scientific matter. Scientific writing and ethics. Writing references