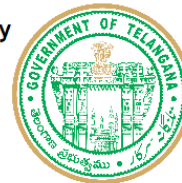


Telangana Tribal Welfare Residential Degree College for Men, Kamareddy

Sarampally X Road, Kamareddy, 503111

Ph: 7901097707



Department of Chemistry

Course Outcomes

Semester I

On completion of the course, the student will be able:

CO 1	To learn chemical bonding and related theories like Fagan's rule, polarity, VSEPR theory, Molecular orbital theory and molecular orbital energy diagrams etc.
CO 2	To learn about the p-block elements emphasising on structures of Diborane and higher boranes, Carbides and nitrites and properties.
CO 3	To make understand structural theory in organic chemistry like bond polarisation, applications of inductive effect, basicity of amines and carboxylic acids.
CO 4	To understand acyclic hydrocarbons of alkanes, alkenes and alkynes preparation and chemical properties and aromatic hydrocarbon observations.
CO 5	To know about basic concepts of physical chemistry of atomic structure and elementary quantum mechanics, gaseous state and liquid state.

Semester II

On completion of the course, the student will be able:

CO 1	To learn about inorganic chemistry concepts like p-block elements of oxides, oxyacids inter halogens and pseudo halogens.
CO 2	To learn about Zero group elements and d-block elements properties and applications.
CO 3	To obtain knowledge about halogen compounds, alcohols, phenols, ethers and carbonyl compounds.
CO 4	To gain knowledge about theory of quantitative analysis, stereochemistry and colligative properties.
CO 5	To gain understanding on Raoult's law, types of solutions, Nernst distribution law

Semester III

On completion of the course, the student will be able:

CO 1	To learn inorganic chemistry of f block elements and co-ordination compounds.
CO 2	To be able to learn carboxylic acids and derivatives, nitro hydrocarbons and amines, cyanides and isocyanides.
CO 3	To acquire the subject of thermodynamics and its laws, applications.
CO 4	To gain knowledge about evaluation of analytical data, carbon ions and phase rule.

Semester IV

On completion of the course, the student will be able:

CO 1	To learn CFT, HSAB and applications of coordination compounds and bioinorganic chemistry.
CO 2	To understand carbohydrates, amino acids, proteins and heterocyclic compounds.
CO 3	To understand about photochemical laws, applications.
CO 4	To understand theories of bonding in metals, carbene ion -II, colloids and surface chemistry and its applications.

Semester V - Spectroscopy and Chromatography

On completion of the course, the student will be able:

CO 1	To understand the theoretical principles of UV and IR spectroscopy.
CO 2	To learn basic principles and instrumentation of UV, IR, fluorimeter, flame photometer.
CO 3	To learn basic principles involved in TLC, column chromatography and paper chromatography.
CO 4	To understand the separation of compounds by chromatographic techniques.
CO 5	To explain instrumentation, separation and identification of compounds by electrophoresis technique.

Semester VI – Medicinal Chemistry

On completion of the course, the student will be able:

CO 1	To gain knowledge on the nomenclature and classification of drugs.
CO 2	To gain understanding of antibiotics, cardiovascular drugs and antimicrobials.
CO 3	To acquire knowledge about Antipyretics, analgesics, diuretics, anti-inflammatory drugs and antidiabetics.
CO 4	To gain awareness on HIV-AIDs, causes, prevention, tests, treatment and antiretroviral drugs.