SIR C R REDDY COLLEGE

Affiliated to Adikavi Nannaya University, Rajamahendravaram

2019-20 (ODD)
16-02-2019
MINUTES OF BOARD OF STUDIES MEETING

DEPARTMENT OF CHEMISTRY
SIR C R REDDY COLLEGE ELURU -AP-534007

CO1:To gain knowledge about preparation, structure and applications of compounds formed by the P block elements.

CO2:To gain knowledge about preparation and reactivity of Grignard reagent and it's activities in reactions

CO3:To gain knowledge about basic organic chemistry definitions and types of reactions

CO4:To understand about classification and preparation of acyclic and alicyclic hydrocarbons

CO5:To gain knowledge about preparation , structure, reactivity of benzene and Aromaticity of benzene.

Programme specific outcomes :

PSO-1 : Chemistry of p – block elements

To gain knowledge about the diborane , borazine, silicones, phosphonitrilic halides, oxides and oxyacids of sulphur , pseudo halogens and interhalogen compounds.

PSO-2 :OrganometallicChemistry

To gain knowledge about preparation and reactivity of Grignard reagent and it's activities in reactions

PSO-3 :Structural theory in Organic Chemistry

To gain knowledge about basic organic chemistry definitions and types of reactions

PSO-4 Acyclic Hydrocarbons &Alicyclic hydrocarbons(CycloAlkanes

To gain knowledge about basic organic chemistry definitions and types of reactions

.

PSO-5 :Benzene and its reactivity:: To gain knowledge To gain knowledge about preparation , structure, reactivity of benzene and Aromaticity of benzene.

.

Course outcomes :

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

CO-1 : Understand the basic concepts of d-block and f-block elements.

CO-2 : Understand the Theories of bonding in metals and Structures of Metal Carbonyls.

CO-3 : Understand preparation, properties and reactions of halo alkanes, halo arenes and oxygen containing functional groups.

CO-4 : Use the Synthetic chemistry learnt in this course to do functional transformations.

CO-5 : To propose possible mechanism for any relevant reactions.

Programme specific outcomes :

PSO-1: Chemistry of d-block elements

To gain knowledge about characteristic properties of d-block elements.

PSO-2: Chemistry of f-block elements

To gain knowledge about Lanthanides and Actinides.

PSO-3: **Theories of bonding in metals**

To gain knowledge about Theories of Metals like Free Electron theory, VBT,MO.

PSO-4: Metal Carbonyls

To gain knowledge about Preparation and structures of some metal carbonyls.

PSO-5: Halogen Compounds

To gain knowledge about SN_1 and SN_2 reactions.

PSO-6: Hydroxy Compounds

To gain knowledge about preparation and properties of alcohols and phenols.

PSO-7: Carbonyl Compounds

To gain knowledge about preparation and properties of aldehydes and ketones.

PSO-8: Carboxylic acids and its derivatives

To gain knowledge about acid derivatives

PSO-9: Active Methylene Compounds

To gain knowledge about synthesis and reactivity of acetoacetic ester and melonic ester.

Course outcomes :

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

CO-1 : Understand the basic concepts Coordination Compounds, Spectral and Magnetic properties and Stability of Complexes.

CO-2 : Understand the preparation and properties of Amino acids and basic knowledge on Protiens.

CO-3 : Understand preparation, Structure and Conversions of Glucose and Fructose.

CO-4 : Understand the Laws and properties of Thermodynamics.

Programme specific outcomes :

PSO -1: Co-ordination Chemistry

To gain knowledge about theories of complex compounds.

PSO -2: Spectral and Magnetic properties of Metal Complexes

To gain knowledge about magnetic behaviour of complexes.

PSO-3: Stability of Metal Complexes

To gain knowledge about stability of complexes.

PSO-4: Carbohydrates To gain knowledge about preparation, structure, conversions of Glucose and Fructose.

PSO-5: Amino acids and Proteins

To gain knowledge about preparation and properties of Amino acids.

PSO-6: Thermodynamics

To gain knowledge about Thermodynamic properties

1.

Course outcomes :
At the end of the Course, the student will be able to ;
CO-1 : Understand the preparation and properties of Nitro Hydro Carbons and Amines.
CO-2 : Understand the preparation , properties and reactivity of Hetero Cyclic Compounds.
CO-3 : Understand the Laws of Absorption of Light energy by molecules and the subsequent photo chemical reactions. And also understand the concept of Quantum efficiency and mechanism of Photo chemical reactions.
CO-4 : Understand the Rate of reactions .
CO-5 : Understand the Biological significance of some elements.

Programme specific outcomes :
PSO -1: Nitro Hydro Carbons
To gain knowledge about preparation and properties of Nitro compounds.
PSO -2: Nitrogen Compounds
To gain knowledge about preparation and properties of amines.
PSO-3: Heterocyclic Compounds
To gain knowledge about preparation and properties of Heterocyclic Compounds.
PSO-4: Reactivity of Metal Complexes
To gain knowledge about SN_1 and SN_2 reactions of metal complexes.
PSO-5: Bio-inorganic Chemistry
To gain knowledge about biological significance of some elements.
PSO-6: Chemical Kinetics
To gain knowledge about rate of the reaction, zero, first, second order reactions.
PSO-6: Photochemistry
To gain knowledge about the photochemical laws.