VISVODAYA GOVT. DEGREE COLLEGE, VENKATAGIRI SPSR. NELLORE DISTRICT

DEPARTMENT OF CHEMISTRY

SEMESTER-I: IN-ORGANIC & ORGANIC CHEMISTRY

- **CO1:** To gain the knowledge about group 13, 14 and 15 and known the chemistry of boran and silicon compounds.
- **CO2:** To understand the properties of organometalic compounds and how to disting wish oxides.
- **CO3:** To be able to generate types of reactions and reagents involved in organic chemistry.
- **CO4:** To provide a basic knowledge of for the students on aeylic and alicyclic hydrocarbons.
- **CO5:** To understand the structure of Benzene which provides a strong basic knowledge for the students for their further studies.

SEMESTER-II : PHYSICAL AND GENERAL CHEMISTRY

- **CO1:** To gain the knowledge about structure of crystals and illustrating different crystals.
- **CO2:** To give the knowledge on gaseous state which help the students in further studies.
- CO3: The understand the ways in which solutions and liquid state.
- **CO4:** Gain the knowledge about surface chemistry which is more help full pharmaceuticals.
- **CO5:** To gain the skills about stereo chemistry of carbon compounds.

SEMESTER-III : IN-ORGANIC & ORGANIC CHEMISTRY

- **CO1:** To st ud ^y ^o f [•] d' block elements which is colored complex in dye industries thermal and electrical conductivity of metals will help the students in building their career in battery industry.
- To ga in the k no wl ed ge of co mp le xer f or me d b y 'd, bl oc k el em en ts.
- **CO3:** To adequate the knowledge and skill about the alky halidies which are rapidly used in different types of pesticides.
- **CO4:** To aquired the complete knowledge of carbony compounds and their reactions which are very applicable in green synthesis.
- **CO5:** To understand types of carboxytic acid and preperation of unsaturated carboxylic acids in industrial level.

SEMESTER-VI : IN-ORGANIC, ORGANIC & PHYSICAL CHEMISTRY

- **CO1:** To gain knowledge about labile and inert complexes and essential elements biological significance of Na,K, mg, Ca, Fe, Co, Ni, Zn and Ct.
- **CO2:** To Understand chemical kinetics and how to calculate order of reaction. To understand the laws of photo chemistry and are useful in every life such as fluorescence, phosphorescence, photo sensitization etc..
- **CO3:** To know the knowledge about hetrocyclic compounds which are present in alkaloids, vitamins figments.
- **CO4:** To be able to identify and recognize the types of carbohyohates they know uses of carbohydrates in many ways.
- CO5: Gain complete knowledge about proteins and their significance.

SEMESTER-IV : IN-ORGANIC, ORGANIC & PHYSICAL CHEMISTRY

- **CO1:** To learn about various spectrophotometers used in structure elucidations of newly extracted compounds.
- **CO2:** To gain knowledge about different spectroscopes involved in various spectral analysis and applications.
- **CO3:** To understand what are the properties in dilute solutions in different ways and their applications
- **CO4:** To able to generate on electric current in electro chemical cell and known about fuel cells, batteries etc...
- CO5: They were know preparation of freezing mixtures.

SEMESTER-V: IN-ORGANIC, PHYSICAL & ORGANIC CHEMISTRY

- **CO1:** To learn how the coordination compounds play roles in plants and human being.
- CO2: To understand magnetic susceptibility of metals and thermo dynamic stability.
- **CO3:** To understand structure and antimerism of retro hydrocarbons and its importance.
- **CO4:** To gain knowledge about ammonium derivatives which are played in research like PTC.
- **CO5:** To gain knowledge of the laws of thermo dynamics which are applicable in chromatography or separation techniques.