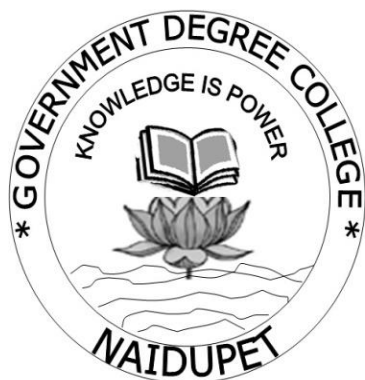


**GOVT DEGREE COLLEGE, NAIDUPET
SPS NELLORE DIST**

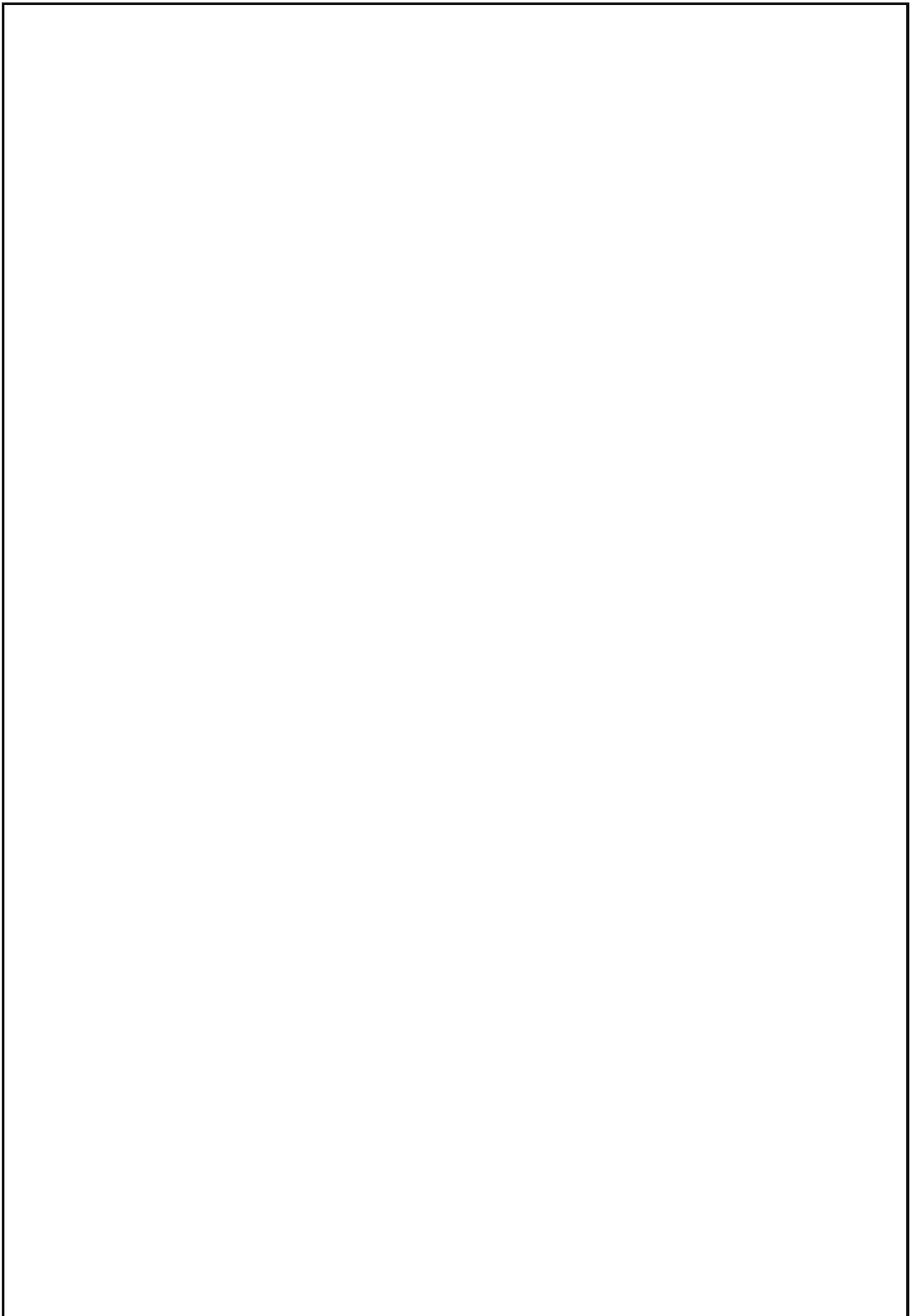


DEPARTMENT OF CHEMISTRY

COURSE OBJECTIVES

COURSE OUTCOMES

2019-20



DEPARTMENT OF CHEMISTRY
COURSE OBJECTIVES AND COURSE OUTCOMES

Semester I			
Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Inorganic and Organic chemistry	<p>Students will try to learn:</p> <ol style="list-style-type: none"> 1. The chemical properties and chemical reactivity of p block elements. 2. The concept of organo-metallic compounds. 3. The concept of structural theory in organic chemistry. 4. The chemical properties and chemical reactivity of acyclic and alicyclic hydrocarbons. 5. The structure and reactivity of Benzene. 6. Interpret and analyze qualitative inorganic simple salt. 	<p>Students will able to:</p> <p>Understand theoretical concepts involved in inorganic and organic compounds.</p>

Semester II			
Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Physical and General chemistry	<p>Students will try to learn:</p> <ol style="list-style-type: none"> 1. The concept of solid state, gaseous state and liquid state. 2. The concept of solutions with related laws and systems. 3. The concept of surface chemistry. 4. The concept of chemical bonding. 5. The concept of stereochemistry of organic compounds. 	<p>Students will able to:</p> <p>Understand theoretical concepts commonly used in most chemistry fields as well as interpretation to related ones.</p>

Semester III

Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Inorganic and Organic chemistry	Students will try to learn: 1. The chemical properties and chemical reactivity of d and f- block elements. 2. The concept of theories of bonding in metals and metal carbonyls. 3. The chemical properties and chemical reactivity of halogen compounds, hydroxyl compounds, carbonyl compounds, carboxylic acids and active methalene group compounds.	Students will able to: Understand theoretical concepts involved in inorganic and organic compounds.

Semester IV

Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Spectroscopy and Physical chemistry	Students will try to learn: 1. The concept of spectro-photometry. 2. The concept of spectroscopic techniques like UV, IR, and NMR. 3. The concept of colligative properties of dilute solutions. 4. The concept of electrochemistry. 5. The concept of phase rule and its applications.	Students will able to: Understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.

Semester V

Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Inorganic, organic and physical chemistry	<p>Students will try to learn:</p> <ol style="list-style-type: none"> 1. The concept of coordination chemistry. 2. The chemical properties and chemical reactivity of Nitrogen compounds, heterocyclic compounds, carbohydrates, amino acids and proteins. 3. The concept of bioinorganic chemistry. 4. The concept of Thermodynamics, 5. The concept of chemical kinetics. 6. The concept of photochemistry. 	<p>Students will able to: Understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.</p>

Semester VI

Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Elective A	<p>Students will try to learn:</p> <ol style="list-style-type: none"> 1. The concept of quantitative analysis and Treatment of analytical data. 2. The concept of separation techniques 3. The concept of chromatography and different types of chromatographic techniques available. 	<p>Students will able to: Understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.</p>

Semester VI Cluster

Course code	Course Name	objectives	Out comes
	B.Sc. Chemistry Custer C -1 Custer C -2 Custer C -3	Students will try to learn: <ol style="list-style-type: none">1. The concept of NMR, UV, Visible, and ESR Spectroscopy.2. The concept of organic photochemistry, protecting groups and synthetic Reactions.3. The concept of pharmaceutical and medicinal chemistry.	Students will able to: Understand theoretical concepts of instruments that are commonly used in most chemistry fields as well as interpret and use data generated in instrumental chemical analyses.