Dr. LANKAPALLI BULLAYYA COLLEGE DEPARTMENT OF CHEMISTRY (U.G - B.Sc.,)

PROGRAM OBJECTIVES

The objectives of the program are:

- To allow students to continue build upon an undergraduate background in science by advanced study leading to a graduate degree.
- To assist in the development of students majoring in other science related fields by providing chemistry courses which provide the necessary knowledge based on the chemical field.
- Teach students to think critically and allow the students to appreciate the central role of science in the society.

- The Program provides students with the back ground information necessary to make informed decision concerning science issues in this complex world.
- To make aware of the correlation of chemistry
 with other subjects like maths, physics, botany,
 zoology, bio-technology and micro-biology as a
 course programmers.

Course outcomes for I Year I Semester		
S1 No	Course Title	Course outcomes
1)	Physical and Inorganic Chemistry Paper – 1	At the end of the course, the student will be able to:
		 Understand the importance of LCD devices. Understand the concepts of dilute solution and colligative properties.
		Apply the concepts of gas equation, pH and electrolyte
		Understand the basic concepts of p,d,f- block elements.

Course outcomes for I Year II Semester			
S1 No	Course Title	Course outcomes	
2)	General and Organic Chemistry Paper - 2	At the end of the course, the student will be able to:	
		Understand and explain the differential behaviour 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.	
		Learn and identify many organic reaction mechanisms including free radical substitution, electrophillic addition and electrophillic aromatic substitution.	
		 Correlate and describe the stereo chemical properties of organic compounds and reactions. 	

	Course outcomes for II Year III Semester		
S1 No	Course Title	Course outcomes	
3)	Organic Chemistry and Spectroscopy Paper - 3	At the end of the course, the student 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 transformation.	
		> To propose possible mechanisms for any relevant reaction.	

Course outcomes for II Year IV Semester			
S1 No	Course Title	Course outcomes	
4)	Inorganic, Organic and Physical Chemistry Paper – 4	At the end of the course, the student will be able to:	
		To learn about the loss of absorption of light energy by molecules and the subsequent photo chemical reactions.	
		> To understand the concept of quantum of efficiency and mechanisms of photo chemical reactions.	

Course outcomes for II Year IV Semester		
S1 No	Course Title	Course outcomes
5)	Inorganic and Physical Chemistry Paper – 4	At the end of the course, the student will be able to:
		Understand the concepts of boundary conditions and quantization, probability distribution, most probable values, uncertainty and expectation values.
		 Applications of quantization of spectroscopy.
		Various types of spectra and their uses in structure determination.