

Chemistry Department
St. Bede's College
B.Sc. with Chemistry Pass Course

Program Specific Outcomes

- This program enables students to learn about the basic building block of matter their structure and bonding. Organic part of this course gives the insight of basics organic chemistry and synthetic organic chemistry of alkanes, alkenes and alkynes.
- Students get aware of the knowledge about the various states of matter i.e. solid, liquid and gases. Students also learn that how to measure the speed of reaction and what are the factors that affects the speed of the reaction. The organic part gives descriptive knowledge about the synthetic organic chemistry of Alkyl halides, alcohols Aldehydes and ketones.
- To make student know about various solution and their importance in our daily life. Phase equilibrium part of the program part gives the knowledge about the various phases and effect of various physical conditions over phase. Electrochemistry part gives knowledge about the reduction, oxidation and about the various types of cells.
- This program helps in educating the students about main group elements of periodic table. Also, the various heat changes in various physical and chemical reactions
- To expose students about the qualitative and quantitative aspects of chemistry and industrial application of chemistry.
- To make students aware of quantum mechanics, which does much more than explaining the structure of simplest atom. It gives understanding to students regarding rationalization of chemical elements and it also gives knowledge about the interaction of electromagnetic radiations with matter and chemical reactions.
- To enable students to know about the transition and inner transition elements of periodic table and it also tells about the coordination compounds.
- From this course students learn about the benefits of chemistry in society and some business skills in chemical technology.
- This course gives students knowledge about the different pesticides and some common pesticides used in agriculture. To help in understanding the basics of pharma industry.

<p style="text-align: center;">Course Outcomes B.Sc. with Chemistry Pass Course (Annual Pattern) St. Bede's College</p>				
<p style="text-align: center;">B.Sc. FIRST YEAR</p>				
S. No.	Subject Code	Subject Name	Subject Category (DSC, DSE, SEC)	Course Outcomes
1.	CHEM101TH CHEM101PR	ATOMIC STRUCTURE, BONDING, GENERAL ORGANIC CHEMISTRY & ALIPHATIC HYDROCARBONS	DSC	In this course students will learn regarding the basic building block of matter their structure and bonding. Organic part gives the insight into the basics of organic chemistry and synthetic organic chemistry of Alkanes, Alkenes and Alkynes
2.	CHEM102TH CHEM102PR	STATES OF MATTER, CHEMICAL KINETICS & FUNCTIONAL ORGANIC CHEMISTRY	DSC	Students gains the knowledge about the various states of matter i.e. solid, liquid and gases. Students also learn from this course that how to measure the speed of reaction and what the factors that affects the speed of the reaction. The organic part gives descriptive knowledge about the synthetic organic chemistry of Alkyl halides, Alcohols Aldehydes and Ketones
<p style="text-align: center;">B.Sc. SECOND YEAR</p>				
3.	CHEM201TH CHEM201PR	SOLUTIONS, PHASE EQUILIBRIUM, CONDUCTANCE ELECTROCHEMISTRY & ORGANIC CHEMISTRY	DSC	This course gives in depth knowledge about various solution and their importance in our daily life. Phase Equilibrium part gives the knowledge about the various phases and effect of various physical conditions over phase. Electrochemistry part gives knowledge about the reduction, oxidation and about the various types of cells
4.	CHEM202TH CHEM202PR	CHEMISTRY OF MAIN GROUP ELEMENTS, CHEMICAL ENERGETICS ANDEQUILIBRIA	DSC	To educate the students about main group elements of periodic table. Also, the various heat changes in various physical and chemical reactions

5.	CHEM203TH	BASIC ANALYTICAL CHEMISTRY	SEC	This course gives students knowledge about the qualitative and quantitative aspects of chemistry
6.	CHEM204TH	FUEL CHEMISTRY & CHEMISTRY OF COSMETICS & PERFUMES	SEC	This course helps students in understanding industrial application of chemistry
B.Sc. THIRD YEAR				
7.	CHEM303TH CHEM303PR	QUANTUM CHEMISTRY, SPECTROSCOPY & PHOTOCHEMISTRY	DSE	This course deals with quantum mechanics, which does much more than explaining the structure of simplest atom. It gives understanding to students regarding rationalization of chemical elements. This course also gives knowledge about the interaction of electromagnetic radiations with matter and chemical reactions
8.	CHEM304TH CHEM304PR	CHEMISTRY OF TRANSITION AND INNER TRANSITION ELEMENTS, COORDINATION CHEMISTRY,	DSE	This course helps in gaining knowledge about the transition and inner transition elements of periodic table and also about the coordination compounds
9.	CHEM307	CHEMICAL TECHNOLOGY & SOCIETY AND BUSINESS SKILLS FOR CHEMISTRY	SEC	In this students learn about the benefits of chemistry in society and some business skills in chemical technology
10.	CHEM308	PESTICIDE CHEMISTRY & PHARMACEUTICAL CHEMISTRY	SEC	This course gives students knowledge about the different pesticides and some common pesticides used in agriculture. This course also helps in understanding the basics of pharma industry

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