

Course Outcomes (CO's)

B.Sc Biotechnology First Year		
Sr. No.	Course	Course Outcomes
1	Physical Chemistry	<p>CO1 : Equip the students to get an idea on the Physical Chemistry terminology.</p> <p>CO2: Make the students to understand the concept of atom, molecules and their chemical bondings and thermodynamics within them.</p> <p>CO3 : Familiarize the students with the theoretical and practical aspects of Physical chemistry.</p> <p>CO4 : Familiarize the students about the application and importance of Thermodynamics laws and its chemistry.</p>
2	Organic and Inorganic Chemistry	<p>CO1: To understand the different methods of preparation ,reaction, and rules about Alkanes, Alkenes, Alkyl and Aryl Halides.</p> <p>CO2: To understand the Modern Periodic Table and its concepts.</p> <p>CO3: Familiarize the students with the theoretical and practical aspects of Organic and Inorganic chemistry.</p>
3	Microbiology	<p>CO1 : Familiarize the students with the knowledge about different microorganisms around us and its biological concepts.</p> <p>CO2: Technical skills among the students for identifying difference between different microbes and its use in industrial and research areas.</p>
4	Biotechniques	<p>CO1: To make students familiar with instruments and their operating systems.</p>

		<p>CO2: Enable the students to manage the practical activities with the help of Biotechniques.</p> <p>CO3 : Develop skills to analyze data using biotechniques instruments at research level.</p>
5	Biomolecules	<p>CO1: To develop awareness about biochemistry and its applications and importance among the students.</p> <p>CO2: Students will be able to know the parameters about the essential molecules which are needed by each and every living organism .</p>
6	Biostatistics	<p>CO1: Make the students familiarize with corporate statistical concepts to present their data of information.</p>

B.Sc Biotechnology Second Year

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1	Immunology	CO1: Equip the students to get an idea about Immunology.p CO2: To make aware the students about the types of immunity and its cellular concepts at molecular level for making use of advance knowledge in research. CO3: To impart knowledge about holding immunotechniques and its use at medical level..
2	Enzymology	CO1: To understand basic concepts, elements and reactions of enzymes in nature. CO2: To understand fundamentals of enzyme kinetics and its application.
3	Developmental Biology	CO1: Familiarize the concepts of Developmental Biology. CO2: Students are able to understand the Life Cycle of living organism.
4	Central Dogma	CO1: Familiarize the students with the basic principles of Central Dogma. CO2: Acquaint students with the knowledge about transcription, translation and replication of living organism.
5	Genetics	CO1: Provide complete knowledge of Genetics. CO2: Familiarize the students with the mechanism of genetics at molecular level. CO3: By learning the basic methods of genetics they can easily switch over to any research in life science.

B.Sc Biotechnology Third Year

Sr. No.	Course	Course Outcomes
1	Bioinformatics	CO1: To provide knowledge to solve biological problems at computational level. CO2: To understand the basic concept of mentating the data using different databases of bioinformatics. CO3: It will help students to predict the new biological information using previous data store.
2	Plant Tissue Culture	CO1: Familiarize the students with the basic principles of Tissue culturing.
3	Principles of Genetic Engineering	CO1: Students will be perfect in the fundamental concepts of Genetic engineering. CO2: By learning the basic methodsthey can easily switch over to any research in life science.
4	Ecology and Evolution	CO1: To make students familiar with social environment. CO2: To develop the awareness among the students regarding the laws of Ecology and Evolution and its role in environment.
5	Bioethics	CO1: Provide theoretical knowledge about the relation between Biotechnology and Bioethics. CO2: Equip the students to understand various factors about bioethics and its compact on society. CO3: Develop skills of biosafety at laboratoray level.
6	Project	CO1: Students will gain complete knowledge about research area. CO2: Students will be confident about their work.