

**DANTULURI NARAYA RAJU COLLEGE (AUTOMOUS):: BHIMAVARAM,
WG.Dist.A.P**

(A COLLEGE WITH POTENTIAL FOR EXCELLENCE)

DEPARTMENT OF BIOCHEMISTRY

COURSE OUTCOME

S. No	Semester	Course code	Title of the course	Course outcomes
1	I	2125-IB	Bio molecules-IA	<p>To discuss the importance of water, buffer, Ph of different fluids like blood, urine & lymph</p> <p>To describe basic classifications, chemical structures of carbohydrates like glucose, lipids like cholesterol, proteins like Albumins.</p> <p>To have more idea on various transport systems in biological membranes.</p> <p>To understand the chemical bonds in bio molecules.</p>
2	II	2125-IB	Nucleic Acids & Biochemical techniques-IB	<p>To understand the nature, scope & structures, significances of Nucleic Acids.</p> <p>To understand the properties, chemical structures of RNA & DNA</p> <p>To have the knowledge of chemical structures biological inputs, types of porphyrines.</p> <p>To appreciate the procedure of different theoretical & practical ideas in separation & purification of proteins, Enzymes & plant pigments by centrifugation, Electrophoresis & chromatography.</p>
3	III	2225-IIA	Enzymology & Bioenergetics	<p>To know about the fundamentals, models of formation of products, inhibitors & inhibitions of Enzymes.</p> <p>To learn and acquire in-depth knowledge of Enzyme structure, composition, catalytic activity & properties of Enzymes.</p> <p>To understand the various stages in ETC & Oxidative phosphorylation.</p> <p>To analysis the theory of production of ATP molecules.</p> <p>To demonstrate knowledge of Electron transport system in mitochondria.</p>
4	IV	2225-IIB	Intermediary Metabolism-IIB	<p>To understand the chemistry & action of digestive enzymes which are secreted to digestion of Biomolecules.</p> <p>To demonstrate knowledge of key note on metabolism of carbohydrates, lipids, proteins, Nucleic Acids & porphyrines.</p> <p>To analyze the abnormal conditions of metabolism of bio molecules in various organs.</p>
5	V	2325-IIIA	Physiology, clinical	<p>To discuss the anatomic structure of liver, kidney, pituitary, thyroid and pancreas glands.</p>

			Biochemistry & Immunology	<p>To have the knowledge of composition, functions & types of foods.</p> <p>To have an idea on functions, abnormal conditions & Disorders of liver, kidney</p> <p>To know the overall idea on vaccines & vaccinations.</p> <p>To understand the total organization of Endocrine system.</p> <p>To learn and acquire in cells & organs of immune system</p>
6	VI	2425-IVA	Molecular biology & r-DNA technology	<p>To demonstrate knowledge of key things and concepts of replication of DNA & Transcription</p> <p>To understand the nature, stages and inhibitors of translation</p> <p>To analyze the theory of Recombinant DNA technology</p> <p>To have overall idea on Bioinformatics.</p>
7	VI	2325-IIB	Bio Chemical correlation in disorders	<p>To discuss the importance of water soluble & fats soluble vitamins</p> <p>To have the knowledge of significance & clinical conditions of organ specific & Auto immune disorders</p> <p>To know about the nutritional deficiency and hormonal imbalance. To have overall idea on disorders caused due to misfolded protein and deficiency of minerals</p>
		2425-IVB	Organization of cell structure	<p>To describe the basic structure of cell organelles</p> <p>To have the knowledge of cell biology & cell signaling.</p> <p>To prepare for competitive exams and useful for Govt. job service aspirants</p> <p>To understand the nature and organization of genes & chromosomes.</p>
		2425-VB	Genetics & Ecology	<p>To have more idea on Mendel's laws and inheritance</p> <p>To analyze the theory of Mutations & Repair</p> <p>To demonstrate of Genes and Chromosomal disorders</p> <p>To know the evolution of modernity concepts of an Ecosystem</p>
		2425-VIB	Applied Biochemistry	<p>To demonstrate knowledge & stages in molecular biology</p> <p>To learn and acquire in depth knowledge in vaccines</p> <p>To have the knowledge of the plats Animal tissue culture</p> <p>To know about the evolution of stem cells</p>