

B.Sc., Biotechnology Biochemistry and Chemistry (Bt. Bi. C)

- This course helps the student to understand the various aspects of biological sciences necessary for the application of biology towards research, medical sciences and importantly Industry.
- It also helps in gaining knowledge in basics of all sciences which guides them to pursue innovative and interdisciplinary research.
- This combination equips students with various practical skills with research aptitude in the areas of Analytical Biochemistry, Cell Biology, Genetics, Tissue Culture and Bioinformatics.
- After completion of this course, students are eligible for pursuing master's in biotechnology, Biochemistry and Chemistry. They are also eligible to pursue master in English also.
- Apart from higher studies, they are eligible for job such as in clinical biochemistry and biotechnology enterprises for which placements are conducted in the college annually.

Subjects

Semester 1	Semester2	Semester 3
1. English-1	1. English-2	1. English-3
2. Sanskrit -1/Telugu-1/ Hindi-1	2. Sanskrit -2/Telugu-2/ Hindi-2	2. Sanskrit -3/Telugu-3/ Hindi-3
3. Environmental Studies / Basic Computer skills	3. Environmental Studies / Basic Computer skills	3. Communication Skills / PROFESSIONAL SKILLS (SEC-1)
4. CELL BIOLOGY AND GENETICS (BT)	4. BIOLOGICAL CHEMISTRY AND MICROBIOLOGY (BT)	4. IMMUNOLOGICAL TECHNIQUES / Safety Rules in Chemistry Laboratory and Lab Reagents Values/Basics in Biochemical calculations and Biostatistics (SEC-2)
5. Chemistry of Biomolecules (Bio)	5. Chemistry of Nucleic Acids and Biochemical Techniques (Bio)	5. MOLECULAR BIOLOGY AND RECOMBINANT DNA TECHNOLOGY (BT)
6. Chemistry-1	6. Chemistry-2	6. Bioenergetics, Biological oxidations and Enzymology (Bio)
		7. Chemistry-3

Semester 4	Semester 5	Semester 6
1. English-4	1. English-5	1. English-6
2. Sanskrit -4/Telugu-4/ Hindi-4	2. Sanskrit -5/Telugu-5/ Hindi-5	2. Sanskrit -6/Telugu-6/ Hindi-6
3. Leadership & Management Skills/Universal Human (SEC-3)	3. Microbiology and Human health/ Basic & Applied Genetics (GE)	3. Project In Chemistry/ Advance Chemistry/ Project In Biotechnology/ IPR, Biosafety and Entrepreneurship/ Biochemistry in Health and Disease
4. DRUG DESIGNING / Applied and computational Biochemistry/ REMEDIAL METHODS FOR POLLUTION, DRINKING WATER AND SOIL FERTILITY STANDARDS (SEC-4)	4. Plant Biotechnology/Medical Biotechnology (Bt)	4. Animal Biotechnology/Environmental Biotechnology (Bt)
5. BIOINFORMATICS AND BIOSTATISTICS (BT)	5. Physiology, Nutrition and Clinical Biochemistry/ Cell Biology, Genetics and Microbiology (Bio)	5. MOLECULAR BIOLOGY and IMMUNOLOGY/ r-DNA technology and Biotechnology

		(Bio)
6. Intermediary Metabolism (Bio)	6. Spectroscopy and Chromatography/ Metallurgy, Dyes and Catalysis (Chem)	6. Medicinal Chemistry/ Agricultural and Fuel Chemistry (Chem)
7. Chemistry-4		