

Microbiology, Biochemistry and Chemistry (Mi.Bi.C)

- The course is combination of microbiology, Biochemistry and chemistry and give an in-depth knowledge in basic and applied concepts enhances the understanding of various life processes
- The student will gain technical skills especially in diagnostics in microbiology, biochemistry and chemistry to get employment in clinical laboratories, hospitals and drug manufacturing companies.
- It also opens up avenues for higher education in biological and chemical sciences.

Subjects

Semester 1	Semester2	Semester 3
1. English	1 English	1 English
2 Telugu/Sanskrit/Hindi/French	2 Telugu/Sanskrit/Hindi/French	2 Telugu/Sanskrit/Hindi/French
3 AECC-I / II (Mandatory Discipline) Basic Computer Skills	3AECC-I / II (Mandatory Discipline) Environmental Studies	3 SEC-I: Communication Skills (or) Professional skills
		4 SEC-2: Haematology / Basics in Biochemical Calculations and Biostatistics / Safety Rules in Chemistry Laboratory and Lab Reagents
4 General Microbiology	4 Microbial Diversity	5 Food and Environmental Microbiology
5 Chemistry of Biomolecules	5 Chemistry of Nucleic acids and Biochemical Techniques	6 Bioenergetics, Biological oxidations and Enzymology
6 Chemistry (Paper I)	6 Chemistry (Paper II)	7 Chemistry (Paper III)

Semester 4	Semester 5	Semester 6
1. English	1 English	1 English
2 Telugu/Sanskrit/Hindi/French	2 Telugu/Sanskrit/Hindi/French	2 Telugu/Sanskrit/Hindi/French
3 SEC-3: Leadership & Management skills (or) Universal human values	3 Basics in Biotechnology / Basic & Applied genetics	3 Project In Microbiology/ Applied Microbiology/ Biochemistry in Health and Disease / Project in Chemistry/ Advance Chemistry
4 SEC-4: Mushroom Cultivation / Applied and Computational Biochemistry / Remedial methods for pollution, drinking water and soil fertility standards	4 A - Molecular biology & Microbial genetics/ B - Microbial OMICS	4 A- Industrial Microbiology / B- Pharmaceutical Microbiology
5 Medical microbiology & Immunology	5 A - Physiology, Nutrition and Clinical Biochemistry / B - Cell Biology, Genetics and Microbiology	5 A - Molecular Biology and Immunology / B - r-DNA technology and Biotechnology
6 Intermediary Metabolism	6 A- Spectroscopy & Chromatography / B- Metallurgy, Dyes & Catalysis	6 A- Medicinal Chemistry / B- Agriculture & Fuel Chemistry
7 Chemistry (Paper IV)		