Microbiology, Genetics & Chemistry (Mi.G.C)

- The course is combination of microbiology, genetics and chemistry and enhances the understanding of the intricate relationship between these distant fields
- The course provides a cohesive illustration of the prominence from the context of academics and research
- It opens up the options for the students from the view point of higher education in biological sciences

<u>Subjects</u>				
Semester 1	Semester2	Semester 3		
1. English	1 English	1 English		
2 Telugu/san/Hindi /French	2 Telugu/san/Hindi /French	2 Telugu/san/Hindi /French		
3 Ability Enhancement	3 Ability Enhancement	3 Skill Enhancement Course-		
Compulsory Course - AECC-I / II	Compulsory Course - AECC-I / II	SEC 1 Communication Skills		
(Mandatory Discipline) Basic	(Mandatory Discipline)	(or) Professional skills / SEC 2		
Computer Skills	Environmental Studies	Food Adulteration/Basic		
		Statistics and Genetic		
		Analysis/Safety Rules in		
		Chemistry laboratory and		
		Reagents/Remedial methods		
		for pollution, Drinking water		
		and Soil fertility.		
4 General Microbiology	4 Microbial Diversity	4 Food and Environmental		
		Microbiology		
5 Transmission Genetics	5 Molecular genetics and Genetic	5 Biostatistics and		
	engineering	Bioinformatics		
6 Chemistry (Paper I)	6 Chemistry (Paper II)	6 Chemistry (Paper III)		

Semester 4	Semester 5	Semester 6
1. English	1 English	1 English
2 Telugu/san/Hindi /French	2 Telugu/san/Hindi /French	2 Telugu/san/Hindi /French
3 SEC 1 Leadership &		
Management skills (or) Universal		
human values .		
SEC 2 Mushroom cultivation/	3 Generic Elective- GE Microbiology & Human health/Basic & Applied genetics	3.Hospital Waste Management.
Analytical Techniques in		
Molecular Genetics/		
i) Materials and their		
Applications/ ii) Chemistry of		
Cosmetics and Food Processing.		
4 Medical microbiology & Immunology	4 1A- Molecular biology &	4 2A- Industrial Microbiology
	Microbial genetics	2B- Pharmaceutical
	1B Microbial OMICS	Microbiology
5 Population genetics & Evolution	5 1A- Plant Genetics &	5 1A- Human Genome &
	Biotechnology/	Human Genetics/
	1B- Animal Genetics &	1B- Cellular & Molecular

	Biotechnology	Immunology
6 Chemistry (Paper IV)	6 III A- Spectroscopy &	6 III A- Medicinal Chemistry/
	Chromatography/	III B- Agriculture & Fuel
	III B- Metallurgy, Dyes & Catalysis	Chemistry