Microbiology

Microbiology has gained new stature. Microorganisms & their activities increasingly central to many of the concerns of society both nationally & internationally.

The problem of global environment, the recognition of the need to recycle natural resources, the discovery of recombinant DNA& the resulting high technology of genetic engineering these & other development have placed Microbiology in the lime light. Microbiology has emerged as the key biological science. Micro-organisms provide the model used in molecular biology for research. This research at molecular level has provided and continues to provide the answers to numerous fundamental questions in genetics, metabolism, cell forms & functions. There is a growing recognition of the potential of micro-organisms in many applied areas. The ability of microorganisms to degrade oil in oil spills, herbicide, pesticide, as an ability to supplement food, to produce energy & other uses of micro-organisms are becoming increasingly attractive.

Since the syllabus takes into account many frontiers of biology, the candidates will also be in great demand abroad. Some of the Interested student will also be able to pursue the doctoral studies both in India & abroad afterthe completion of the PG Degree.

[Second Year]

Semester- 3

Core Courses		
Microbiology	1.	Fundamental of Microbiology-I
	2.	Fundamental of Microbiology-II
	3.	Practicals
Biochemistry	1.	Biochemistry of Biomolecules-I
	2.	Biophysical &Environmental Biochemistry
	3.	Practicals
Elective Courses		
Elective	1.	Elective
	2.	Elective
Foundation Course		
	1.	Functional English

Semester- 4

Core Courses		
Microbiology	1.	General Microbiology
	2.	Applied Microbiology
	3.	Practicals
Biochemistry	1.	Biochemistry of Biomolecules-I I
	2.	Biophysical Biochemistry
	3.	Practicals
Elective Courses		
Elective	1.	Elective
	2.	Elective
Foundation Course		
	1.	Functional English

[Third Year]

Semester- 5

Core Courses		
Microbiology	1.	Fundamentals of Molecular Biology
	2.	Bioinstrumentation
	3.	Microbial Physiology & Enzymology
	4.	Immunology
	5.	Microbial Diversity & Ecology
	6.	Fermentation Technology
	7.	Practicals
	8.	Practicals
	9.	Practicals

Semester- 6

Core Courses		
Microbiology	1.	Molecular Genetics
	2.	Tools and Techniques in Molecular Biology
	3.	Microbial Biochemistry
	4.	Medical Microbiology
	5.	Agriculture & Environmental Microbiology
	6.	Industrial Microbial Technology
	7.	Practical
	8.	Practical
	9.	Practical