

First Semester										
Sl. No.	Sem	Course Code	Course Title	Course type	L	T	P	SL	C	Type
1	Sem I		Cytology, Genetics and Infectious Diseases	Major	4	0	1	1	6	Comprehensive
2	Sem I		Cell Biology and Cytogenetics Lab	Major						
3	Sem I		Fundamentals of Chemistry	Major	4	0	1	0	5	Integrated
4	Sem I		Quantitative Analysis	Major						
5	Sem I		Introduction to Microbial World	Major	4	0	1	0	5	Integrated
6	Sem I		Practicals in General Microbiology	Major						
7	Sem I		Mastering in Word & Excel	Vocational Course	2	0	1	0	3	Integrated
8	Sem I		Indian Legal Systems for Sciences	Interdisciplinary	1	0	0	0	1	Theory
9	Sem I		Food, Nutrition and Hygiene	Co-Curricular	2	0	0	0	0	Workshop
Total Credits									20	
Second Semester										
Sl. No.	Sem	Course code	Course Title		L	T	P	SL	C	Type
1	Sem II		Biochemistry and Physiology	Major	3	0	1	0	4	Integrated
2	Sem II		Physiological, Biochemical & Hematology Lab	Major						
3	Sem II		Bioorganic and Medicinal Chemistry	Major	3	0	1	1	5	Comprehensive
4	Sem II		Biochemical Analysis (Practical)	Major						
5	Sem II		Light and Life	Major	4	0	0	0	4	Theory
6	Sem II		Professional Communication-I	Language	1	0	2	0	3	Integrated
7	Sem II		Vocational Course (Chosen from University Bucket)	Vocational Course	2	0	1	0	3	Integrated
8	Sem II		First Aid and Health	Co-Curricular	1	0	0	0	1	Theory
Total Credits									20	
Third Semester										
Sl. No.	Sem	Course Code	Course Title		L	T	P	SL	C	Type
1	Sem III		Molecular Biology, Bioinstrumentation & Biotechniques	Major	3	0	1	1	5	Comprehensive
2	Sem III		Bioinstrumentation & Molecular Biology Lab	Major						
3	Sem III		Bacteriology	Major	3	0	1	0	4	Integrated
4	Sem III		Bacteriology Lab	Major						
5	Sem III		Phycology and Mycology	Major	3	0	1	0	4	

6	Sem III		Phycology and Mycology Lab	Major							Integrated
7	Sem III		Sociology /Economics /Political Science/ Cyber Crime	Interdisciplinary	2	0	0	0	2		Theory
8	Sem III		Vocational Course (Chosen from University Bucket)	Vocational Course	2	0	1	0	3		Integrated
9	Sem III		Human values and Environment studies	Co-Curricular	2	0	0	0	2		Theory
Total Credits											20
Fourth Semester											
Sl. No.	Sem	Course Code	Course Title		L	T	P	SL	C		Type
1	Sem IV		Gene Technology and Human Welfare	Major	3	0	1	0	4		Integrated
2	Sem IV		Gene Technology and Genetic Counselling Lab	Major							
3	Sem IV		Virology	Major	4	0	0	0	4		Theory
4	Sem IV		Programming Languages	Major	4	0	1	1	6		Comprehensive
5	Sem IV		Programming Languages Lab	Major							
6	Sem IV		Python Language	Minor							
7	Sem IV		AI and Applications	Interdisciplinary	1	0	1	0	2		
8	Sem IV		Vocational Course (Chosen from School Vocational Bucket)	Vocational Course-Minor-I	3	0	1	0	4		Integrated
Total Credits											20
Fifth Semester											
Sl. No.	Sem	Course Code	Course Title		L	T	P	SL	C		Type
1	Sem V		Concepts of Immunology	Major	3	0	1	1	5		Comprehensive
2	Sem V		Lab on Immunology	Major							
3	Sem V		Food and Agricultural Microbiology	Major	3	0	0	0	3		Theory
4	Sem V		Plant Pathology	Major	3	0	1	0	4		Integrated
5	Sem V		Lab in Plant Pathology	Major							
6	Sem V		Fundamentals of Bioinformatics	Major	3	0	1		4		
7	Sem V		Lab in Bioinformatics	Major							Integrated
8	Sem V		Vocational Course (from School Vocational Bucket)	Vocational Course-Minor-II	3	0	1	0	4		Integrated
Total Credits											20
Sixth Semester											
Sl. No.	Sem	Course code	Course Title		L	T	P	SL	C		Type

1	Sem VI		Medical Microbiology	Major	3	0	1	0	4	Integrated Theory Theory Theory Theory Theory Project
2	Sem VI		Lab in Medical and Industrial Microbiology	Major						
3	Sem VI		Industrial Microbiology	Major	4	0	0		4	
4	Sem VI		Biostatistics	Major	3	0	0		3	
5	Sem VI		Nanobiotechnology	Major	3	0	0		3	
6	Sem VI		Vocational Course (from School Vocational Bucket)	Vocational Course-Minor-III	3	0	0		3	
7	Sem VI		Research Project	PBL	0	0	3		3	
Total Credits									20	
Seventh Semester										
Sl. No.	Sem	Course code	Course Title		L	T	P	SL	C	Type
1	Sem VII		Advanced Microbial Physiology	Advanced Major course	3	0	1	1	5	Comprehensive
2	Sem VII		Microbiology Research Lab - I	Advanced Major course						
3	Sem VII		Enzyme Technology	Advanced Major course	3	0	0	0	3	Theory
4	Sem VII		Principle of Gene manipulation	Advanced Major course	3	0	0	0	3	Theory
5	Sem VII		Elective	Advanced Major course	3	0	0	0	3	Theory
6	Sem VII		Advanced Genetics	Advanced Major course	4	0	0	0	4	Theory
7	Sem VII		Research Methodology	University core	2	0	0	0	2	Theory
Total Credits									20	
Eighth Semester										
Sl. No.	Sem	Course code	Course Title		L	T	P	SL	C	Type
1	Sem VIII		Project	Project	0	0	40	0	20	Project
Total Credits									20	
List of Electives										
Sl No	Course Code	Name of the Electives			L	T	P	C		

1		Recent Trends in Biological Research	3	0	0	3			
2		Bioanalytical and Biophysical Techniques	3	0	0	3			
3		Advanced Cell and Molecular biology	3	0	0	3			