Sem I	Type Comprehensive Integrated Integrated Integrated Theory Workshop							
Cell Biology and Cytogenetics Lab Major	Integrated Integrated Integrated Theory Workshop							
Sem I	Integrated Integrated Integrated Theory Workshop							
A	Integrated Integrated Theory Workshop							
Sem I	Integrated Integrated Theory Workshop							
Practicals in Human Physiology I Major	Integrated Theory Workshop							
Nastering in Word & Excel Vocational Course 2 0 1 0 3	Integrated Theory Workshop							
Sem I	Theory Workshop							
Sem I	Workshop							
Total Credits 20	•							
Second Semester Sl. No. Sem Course code Course Title L T P SL C	Type							
Sl. No. Sem Course code Course Title L T P SL C	Туре							
1 Sem II Biochemistry and Physiology Major 3 0 1 0 4 Physiological, Biochemical & Hematology Lab Major 3 0 1 1 5 Sem II Bioorganic and Medicinal Chemistry Major 3 0 1 1 5 4 Sem II Biochemical Analysis (Practical) Major 5 Sem II Human Physiology II Major 3 0 1 0 4 6 Sem II Practicals in Human Physiology II Major 3 0 1 0 4 7 Sem II Professional Communication-I Language 1 0 2 0 3 Vocational Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3	Туре							
2 Sem II Physiological, Biochemical & Hematology Lab Major 3 0 1 1 5 4 Sem II Bioorganic and Medicinal Chemistry Major 3 0 1 1 5 5 Sem II Biochemical Analysis (Practical) Major Communication-I Language 1 0 2 0 3 8 Sem II Professional Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3								
2 Sem II Lab Major <t< td=""><td></td></t<>								
4 Sem II Biochemical Analysis (Practical) Major C 5 Sem II Human Physiology II Major 3 0 1 0 4 6 Sem II Practicals in Human Physiology II 7 Sem II Professional Communication-I Language 1 0 2 0 3 Vocational Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3	Integrated							
5 Sem II Human Physiology II Major 3 0 1 0 4 6 Sem II Practicals in Human Physiology II 7 Sem II Professional Communication-I Language 1 0 2 0 3 Vocational Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3								
6 Sem II Practicals in Human Physiology II 7 Sem II Professional Communication-I Language 1 0 2 0 3 Vocational Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3	Comprehensive							
7 Sem II Professional Communication-I Language 1 0 2 0 3 Vocational Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3								
8 Sem II Vocational Course (Choosen from University Bucket) Vocational Course 2 0 1 0 3	Integrated							
8 Sem II University Bucket) Vocational Course 2 0 1 0 3	Integrated							
9 Sem II First Aid and Health Co-Curricular 1 0 0 0 1	Integrated							
	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 & Major 3 0 1 1 5	-JF -							
2 Sem III Bioinstrumentation & Molecular Biology Lab Major Co	-J F -							
3 Sem III Toxicology and Pharmacology Major 3 0 1 0 4	Comprehensive							

4	Sem III		Practicals in Toxicology and Pharmacology	Major						Integrated
5	Sem III		Hormones: Biochemistry and Function	Major	4	0	0	0	4	Theory
6	Sem III		Sociology /Economics /Political Science/ Cyber Crime	Interdisciplinary	2	0	0	0	2	Theory
7	Sem III		Vocational Course (Choosen from University Bucket)	Vocational Course	2	0	1	0	3	Integrated
8	Sem III		Human values and Environment studies	Co-Curricular	2	0	0	0	2	Theory
Total Credits										
			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	
2	Sem IV		Gene Technology and Genetic Counselling Lab	Major						Integrated
3	Sem IV		Metabolism of Biomolecules	Major	4	0	0	0	4	Theory
4	Sem IV		Programming Languages	Major	4	0	1	1	6	
5	Sem IV		Programming Languages Lab	Major						
6	Sem IV		Python Language	Minor						Comprehensive
7	Sem IV		AI and Applications	Interdisciplinary	1	0	1	0	2	Integrated
8	Sem IV		Vocational Course (Choosen 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	
2	Sem V		Lab on Immunology	Major						Comprehensive
3	Sem V		Evolutionary Biology	Major	3	0	0	0	3	Theory
4	Sem V		Bioinformatics	Major	3	0	1	0	4	
5	Sem V		Lab in Bioinformatics	Major						Integrated
6	Sem V		Medical Biochemistry	Major	4	0	0		4	Theory
7	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	Туре
1	Sem VI		Fundamentals of Microbiology	Major	3	0	1	0	4	
2	Sem VI		Lab in Fundamentals of Microbiology	Major						Integrated
3	Sem VI		Medical Microbiology and Advanced Medicinal chemistry	Major	4	0	0		4	Theory
4	Sem VI		Biostatistics	Major	3	0	0		3	Theory
5	Sem VI		Nanobiotechnology	Major	3	0	0		3	Theory
6	Sem VI		Vocational Course (from School Vocational Bucket)	Vocational Course-Minor-III	3	0	0		3	Theory
7	Sem VI		Research Project	PBL	0	0	3		3	Project
			Total Credits						20	
			Seventh Semester							
Sl. No.	Sem	Course code	Course Title		L	T	P	SL	C	Type
1	Sem VII		Advanced Physiology	Advanced Major course	3	0	1	1	5	
2	Sem VII		Biomedical Science Research Lab - I	Advanced Major course						Comprehensiv
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 and Metabolism	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	
	1	_	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 Ele	ctives									
	Course	Name of the								

Sl No	Code	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	