I Semester

Course Code	Course Title	Nature of the Course	Hrs / Week	Credits	CIA	ESE	Max Marks
	II Language	Lang	4	3	40	60	100
13ENG1201	English	Lang	4	3	40	60	100
13BTG1201	Biotechnology I - Cell Biology	MC	4	3	40	60	100
13BTG12L1	Cell Biology Practical	MC Lab	2	1	20	30	50
13BCH1201	Biochemistry I - Biophysical Chemistry	MC	4	3	40	60	100
13BCH12L1	Biochemistry practical-I	MC Lab	2	1	20	30	50
13GEN1201	Genetics I - Fundamentals of Cell Biology	MC	4	3	40	60	100
13GEN12L1	Fundamentals of Cell Biology Practical	MC Lab	2	1	20	30	50
13NHU0102	Indian Constitution	NC	2	1	10	40	50
	Life Skill Education	NC	2	2			
	Total		30	22	270	430	700

II Semester

Course Code	Course Title	Nature of the Course	Hrs / Week	Credits	CIA	ESE	Max Marks
	II Language	Lang	4	3	40	60	100
	English	Lang	4	3	40	60	100
13BTG2201	Microbiology	MC	4	3	40	60	100
13BTG22L2	Microbiology Practical	MC Lab	2	1	20	30	50
13BCH2001	Biomolecules	MC	4	3	40	60	100
13BCH22L1	Biochemistry practical-II	MC Lab	2	1	20	30	50
13GEN2201	Principles of Genetics	MC	4	3	40	60	100
13GEN22L1	Principles of Genetics Practical	MC Lab	2	1	20	30	50
	Computer Fundamentals	NC	2	1	10	40	50
	Total		28	20	270	430	700

III Semester

Course Code	Course	Nature of the Course	Hrs / Week	Credits	CIA	ESE	Max Marks
13ENG3201	English	Eng	4	3	40	60	100
13BTG3201	Bioinstrumentation, Biostatistics, Bioinformatics	MC	4	3	40	60	100
13BTG32L1	Bioinstrumentation practical	MC Lab	2	1	20	30	50
13BTG3202	Molecular Biology and Genetic Engineering	MC	4	3	40	60	100
13BTG32L2	Molecular Biology and Genetic Engineering Practical	MC Lab	2	1	20	30	50
13BCH3201	Human Physiology	MC	4	3	40	60	100
13BCH32L1	Biochemistry practical- III	MC Lab	2	1	20	30	50
13GEN3201	Molecular genetics rDNA technology	MC	4	3	40	60	100
13GEN32L1	Molecular genetics rDNA technology practicals	MC Lab	2	1	20	30	50
			24	19	280	420	700

IV Semester

Course Code	Course	Nature of the Course	Hrs / Week	Credits	CIA	ESE	Max Marks
13ENG4201	English	Eng	4	3	40	60	100
13BTG4201	Agricultural and Environmental Biotechnology	MC	4	3	40	60	100
13BTG42L1	Agricultural and Environmental Biotechnology Practical	MC Lab	2	1	20	30	50
13BTG4202	Immunology and Animal Biotechnology	MC	4	3	40	60	100
13BTG42L2	Immunology and Animal Biotechnology Practical	MC Lab	2	1	20	30	50
13BCH4201	Enzyme & Enzyme Technology	MC	4	3	40	60	100

13BCH42L1	Biochemistry practical-IV	MC Lab	2	1	20	30	50
13GEN42L1	Cytogenetics	MC	4	3	40	60	100
13GEN42L1	Cytogenetics practical	MC Lab	2	1	20	30	50
	Environment Studies & Civic Sense	NC	2	1	20	30	50
			30	20	300	460	750

V Semester

Course Code	Course	Nature of the Course	Hrs / Week	Credits	CIA	ESE	Max Marks
13BTG5201	Plant Biotechnology	MC	4	3	40	60	100
13BTG52L1	Plant Biotechnology Practical	MC Lab	2	1	20	30	50
13BCH5201	Biopolymers	MC	4	3	40	60	100
13BCH52L1	Biochemistry practical-V	MC Lab	2	1	20	30	50
13BCH5202	Bio-analytical Techniques	MC	4	3	40	60	100
13BCH52L2	Biochemistry practical-VI	MC Lab	2	1	20	30	50
13GEN5201	Developmental Genetics	MC	4	3	40	60	100
13GEN52L1	Developmental Genetics Practical	MC Lab	2	1	20	30	50
13GEN5202	Basic Human Genetics	MC	4	3	40	60	100
13GEN52L2	Basic Human Genetics practical	MC Lab	2	1	20	30	50
			30	20	300	450	750

VI Semester

Course Code	Course	Nature of the Course	Hrs / Week	Credits	CIA	ESE	Max Marks
13BTG6201	Industrial Biotechnology	MC	4	3	40	60	100
13BTG62L1	Industrial Biotechnology Practical	MC Lab	2	1	20	30	50
13BCH5201	Intermediary Metabolism	MC	4	3	40	60	100
13BCH52L1	Biochemistry practical-VII	MC Lab	2	1	20	30	50
13BCH5202	Clinical Biochemistry	MC	4	3	40	60	100
13BCH52L2	Biochemistry practical-VIII	MC Lab	2	1	20	30	50
13GEN5201	Population and Evolutionary Genetics	MC	4	3	40	60	100

13GEN52L1	Population and Evolutionary Genetics practical	MC Lab	2	1	20	30	50
13GEN5202	Applied Genetics	MC	4	3	40	60	100
13GEN52L2	Applied Genetics practical	MC Lab	2	1	20	30	50
			30	20	300	450	750
	Project			3			