

**Year 1 (FY BSc Biotechnology)****Semester I**

Course Code	Theory/ Practical	Course Type	Course title	Credits	No. of Lectures/ Practical	Evaluation		
						Marks for CIE	Marks for ESE	Total Marks
24BIO11101	T	Major DSC	Biological Chemistry	2	30L	20	30	50
24BIO11102	P	Major DSC	Experiments in Biological Chemistry	2	15P	20	30	50
24BIO11103	T	Major DSC	Microbial Science	2	30L	20	30	50
24BIO11104	P	Major DSC	Experiments in Microbial Science	2	15P	20	30	50
24BIO11105	T	Major DSC	Bioinstrumentation	2	30L	20	30	50
24BIO11106	P	Major DSC	Experiments in Bioinstrumentation	2	15P	20	30	50
24BIO11408	P	VSC/SEC	Experiments in Computational tools for biotechnology	2	15P	20	30	50
24COB11301C	T	OE1	Banking Operations	2	30L	20	30	50
24ENG11506	T	AEC	Developing Communicative Competance in English	2	30L	20	30	50
24VEC11501	T	VEC	Environmental sustainability: principles and values	2	30L	20	30	50
24IKS11501	T	IKS	Foundation course on Indian Knowledge System	2	30L	20	30	50

**Semester II**

Course Code	Theory/ Practical	Course Type	Course title	Credits	No. of Lectures/ Practical	Evaluation		
						Marks for CIE	Marks for ESE	Total Marks
24BIO12101	T	Major DSC	Plant Science	2	30L	20	30	50
24BIO12102	P	Major DSC	Experiments in Plant Science	2	15P	20	30	50
24BIO12103	T	Major DSC	Animal Science	2	30L	20	30	50
24BIO12104	P	Major DSC	Experiments in Animal Science	2	15P	20	30	50
24BIO12105	T	Major DSC	Metabolism and Physiology	2	30L	20	30	50
24BIO12106	P	Major DSC	Experiments in Metabolism & Physiology	2	15P	20	30	50
24BIO12408	P	SEC	Experiments in Microscopy	2	15P	20	30	50
24SOC12303	T	OE2	Gender and Media	2	30L	20	30	50
24ENG12506	T	AEC	Mastering English for Professional Purposes	2	30L	20	30	50
24VEC12502	T	VEC	India's Constitution, Democracy, Election and Governance	2	30L	20	30	50
-		CC1	Physical Education/ Cullinary/Animation/ Drama	2	30L	20	30	50

**Year 2 (SY BSc Biotechnology)****Semester III**

Course Code	Theory / Practical	Course Type	Course title	Credits	No. of Lectures/ Practical	Evaluation		
						Marks for CIE	Marks for ESE	Total Marks
24BIO23101	T	Major DSC	Cell Biology	4	60L	40	60	100
24BIO23102	P	Major DSC	Experiments in Cell Biology	2	15P	20	30	50
24BIO23103	T	Major-specific IKS	Biotech in Indian Perspective	2	30L	20	30	50
24BIO23205	T	Minor	Molecular Biology	2	30L	20	30	50
24BIO23206	P	Minor	Experiments in Molecular Biology	2	15P	20	30	50
24BIO23406	P	VSEC1	Histological Tools	2	15P	20	30	50
24BIO23301	T	OE-3	Open Elective	2	30L	20	30	50
24MAR235062 4HIN23506	T	AEC-3	Modern Indian Languages	2	30L	20	30	50
24CUL23601	P	FP-1	Field Project	2	15P	20	30	50
24BIO23602	P	CC-2	Culinary Arts / Web Design	2	30L	20	30	50

**Semester IV**

Course Code	Theory/ Practical	Course Type	Course title	Credi ts	No. of Lectures/ Practical	Evaluation		
						Marks for CIE	Marks for ESE	Total Marks
24BIO24101	T	Major DSC	Developmental Biology	4	60L	40	60	100
24BIO24102	P	Major DSC	Experiments in Developmental Biology	2	15P	20	30	50
24BIO24203	T	Minor	Genetics and Diagnostic Tools	2	30L	20	30	50
24BIO24204	P	Minor	Experiments in Genetics and Diagnostic Tools	2	15P	20	30	50
24BIO24405	T	SEC/ VSC2	Environmental Biotechnology	2	30L	20	30	50
24BIO24406	P	SEC/ VSC2	Experiments in Environmental Biotechnology	2	15P	20	30	50
24BIO24301	T	OE-4	Open Elective	2	30L	20	30	50
24MAR24506 24HIN24506	T	AEC-4	Modern Indian Languages	2	30L	20	30	50
24CEP24601	P	CEP	Community Engagement Project	2	15P	20	30	50
4CC24602	P	CC3	CC3	2	15P	20	30	50

**Year 3 (TY BSc Biotechnology)****Semester V**

Course Code	Theory/ Practical	Course Type	Course title	Credi ts	No. of Lectures/ Practical	Evaluation		
						Marks for CIE	Marks for ESE	Total Marks
24BIO35101	T	Major DSC	Animal and Plant Tissue Culture	4	60L	40	60	100
24BIO35102	T	Major DSC	Recombinant DNA Technology	4	60L	40	60	100
24BIO35103	P	Major DSC	Experiments in Recombinant DNA Technology	2	15P	20	30	50
24BIO35104	P	Major DSC	Experiments in Microbial Biotechnology	2	15P	20	30	50
24BIO35105	T	Major DSC	Immunology	2	30L	20	30	50
24BIO35106	P	Major DSC	Experiments in Immunology	2	15P	20	30	50
24BIO35407	T	VSEC	Microbial Biotechnology	2	30L	20	30	50
24BIO35408	P	VSEC	Experiments in Tissue Culture	2	15P	20	30	50
-	P	FP	Field Project/ Research Project	2	15P	20	30	50

**Semester VI**

Course Code	Theory/ Practical	Course Type	Course title	Credits	No. of Lectures/ Practical	Evaluation		
						Marks for CIE	Marks for ESE	Total Marks
24BIO36101	T	Major DSC	Industrial Microbiology	4	60L	40	60	100
24BIO36102	T	Major DSC	Biostatistics and Bioinformatics	2	30L	20	30	50
24BIO36103	T	Major DSC	Enzyme Technology	2	30L	20	30	50
24BIO36104	P	Major DSC	Experiments in Industrial Microbiology	2	15P	20	30	50
24BIO36105	P	Major DSC	Experiments in Enzyme Technology	2	15P	20	30	50
24BIO36106	T	Major DSE	Applied Biotechnology	2	30L	20	30	50
24BIO36107	P	Major DSE	Experiments in Applied Biotechnology	2	15P	20	30	50
24BIO36407	P	VSEC4	Experiments in Biostatistics and Bioinformatics	2	15P	20	30	50
-	P	OJT	On-job Training	4	30P	40	60	100