

Syllabus for Choice Based Credit Courses for M Sc. in Biotechnology.(2023 onwards)

Semester	S. No.	Course type	Course Code	Course Title	Credit distribution			Total Credits	Internal assessment Marks	Semester end marks	Total marks
					L	T	P				
First	1	Core (CR)	BT23101 CR	Cell Biology	3	1	0	4	20	80	100
	2		BT23102 CR	Molecular Biology-I	3	1	0	4	20	80	100
	3		BT23103 CR	Immune Biology	3	1	0	4	20	80	100
	4		BT23104 CR	Biomolecules	2	0	0	2	10	40	50
	5	Discipline centric (DCE)	BT23101 DCE	Biotechniques	2	1	0	3	15	60	75
	6		BT23102 DCE	Biostatistics	2	0	0	2	10	40	50
	7.		BT23103 DCE	Laboratory Course-I	0	0	3	3	15	60	75
	8.	Generic elective (GE)	BT23001 GE	Biochemical techniques	2	0	0	2	10	40	50
	9	Open Elective (OE)	BT23001 OE	Introduction to cancer Biology	2	0	0	2	10	40	50
Second	1	Core (CR)	BT23201 CR	Animal cell Science and Technology	3	1	0	4	20	80	100
	2		BT23202 CR	Molecular Biology-II	3	1	0	4	20	80	100
	3		BT23203 CR	Advanced Enzymology	3	1	0	4	20	80	100
	4		BT23204 CR	Environmental Biotechnology	2	0	0	2	10	40	50
	5	Discipline centric (DCE)	BT23201 DCE	Microbiology	2	0	0	2	10	40	50
	6		BT23202 DCE	Intermediary Metabolism	2	1		3	15	60	75
	7		BT23203 DCE	Laboratory Course-II	0	0	3	3	15	60	75
	8	Generic Elective (GE)	BT23002 GE	Redox Biology	2	0	0	2	10	40	50
	9	Open Elective (OE)	BT23002 OE	Nutritional Biotechnology	2	0	0	2	10	40	50

Third	1	Core (CR)	BT23301 CR	Genetic Engineering	3	1	0	4	20	80	100
	2		BT23302 CR	Plant Biotechnology	3	1	0	4	20	80	100
	3		BT23303 CR	Bioprocess Engineering and Fermentation Technology	3	1	0	4	20	80	100
	4		BT23304 CR	Human Genetics	2	0	0	2	10	40	50
	5	Discipline centric (DCE)	BT23301 DCE	Bioethics, Biosafety and Intellectual Property Rights.	2	0	0	2	10	40	50
	6		BT23302 DCE	Systems and computational Biology	2	1	0	3	15	60	75
	7		BT23303 DCE	Laboratory Course-III	0	0	3	3	15	60	75
	8	Generic Elective (GE)	BT23003 GE	Molecular Mechanism of Plant Life	2	0	0	2	10	40	50
	9	Generic Elective (GE)	BT23004 GE	Cancer Immunology	2	0	0	2	10	40	50
Fourth											
	1	Core (CR)	BT23401 CR	Proposal Writing	1	0	0	1	0	25	25
	2		BT23402 CR	Research Based project	0	0	14	14	70	280	350
	3		BT23403 CR	Seminar and Journal Club	0	2	0	2	10	40	50
	4		BT23404 CR	Project presentation	0	3	0	3	15	60	75
	5		BT23405 CR	Project viva	0	2	0	2	0	50	50
	6.	Generic elective (GE)	BT23005 GE	Basic Recombinant DNA Technology	2	0	0	2	10	40	50
7	Open elective	BT23003 OE	Bioethics	2	0	0	2	10	40	50	