

B.Sc., Biotechnology
Revised CBCS - OBE - BASED Curriculum Structure
(For students admitted from 2021 onwards)

SEM	PART	COURSE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
I	I	Language I	Course I	6	3	EXT	25	75	100
	II	English I	Course I	6	3	EXT	25	75	100
	III	Core Course I	Cell Biology	7	5	EXT	25	75	100
	III	Core Practical I	Practical I-Cell and Molecular Biology	2	-	INT	-	-	-
	III	First Allied Course I	Microbiology	4	3	EXT	25	75	100
	III	First Allied Practical I	Practical I - Microbiology and Immunology	2	-	INT	-	-	-
	III	CD (Biotechnology & Biochemistry)	Stem Cell Biology	1	-	EXT	-	-	-
	IV	VBE	Value Based Education	2	2	INT	25	75	100
	Total Credits & Marks				30	16			
II	I	Language II	Course II	6	3	EXT	25	75	100
	II	English II	Course II	6	3	EXT	25	75	100
	III	Core Course II	Molecular Biology	5	5	EXT	25	75	100
	III	Core Practical I	Practical I- Cell and Molecular Biology	2	4	INT	40	60	100
	III	First Allied Course II	Immunology	4	3	EXT	25	75	100
	III	First Allied Practical I	Practical I- Microbiology and Immunology	2	3	INT	40	60	100
	III	CD (Biotechnology & Biochemistry)	Stem Cell Biology	3	4	EXT	25	75	100
	IV	EVS	Environmental Studies	2	2	INT	25	75	100
	Total Credits & Marks				30	27			

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SEM	PART	COURSE	COURSE CODE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
III	I	Language	17III XT3/H3/S3	Paper III	6	3	EXT	25	75	100
	II	English	17 III Y3	Paper III	6	3	EXT	25	75	100
	III	Core Course III	17 III BT3	Principles of Genetic Engineering	6	6	EXT	25	75	100
	III	Core Practical II		Genetic Engineering and Enzyme Technology	2	*	-	-	-	-
	IV	Second Allied Course II		Offered by the Department of Biochemistry	4	3	EXT	25	75	100
	IV	Allied Practical II	17 III BIA3	Offered by the Department of Biochemistry	2	*	-	-	-	-
	IV	Non Major Elective Course I	17 III BTNE1	NMEC I – Offered to other Department Students	2	2	INT	25	75	100
		Skill Based Elective Course I	17 III BTSE1/1		2	2	INT	25	75	100
	Total Credits & Marks					30	19	-	-	-
IV	I	Language	17IV XT4/H4/S4	Paper IV	6	3	EXT	25	75	100
	II	English	17 IV Y4	Paper IV	6	3	EXT	25	75	100
	III	Core Course IV	17 IV BT4	Enzyme and Enzyme Technology	6	6	EXT	25	75	100
	III	Core Practical II	17 IV BT3 & 4(P)	Genetic Engineering and Enzyme Technology	2 (2)*+ 2	3	INT	40	60	100
	III	Second Allied Course II	17 IV BIA4	Offered by the Department of Biochemistry	4	3	EXT	25	75	100
	III	Allied Practical II	17 IV BIA1 P	Offered by the Department of Biochemistry	2 (2)*+ 2	3	INT	40	60	100
	IV	Non Major Elective Course I	17 IV BT NME 2	NMEC II – Offered to other Department Students	2	2	INT	25	75	100
	IV	Skill Based Elective Course - II	17 III BT SE2/2		2	2	INT	25	75	100
	Total Credits & Marks					30	25	-	-	-
V	III	Core Course V	17 V BT 5	Bioinstrumentation	6	6	EXT	25	75	100

		Core Course VI	17 V BT 6	Plant Biotechnology	6	6	EXT	25	75	100
		Core Course VII	17 V BT 7	Animal Biotechnology	6	6	EXT	25	75	100
		Core Practical III		Plant Tissue Culture Technology	3	*	-	-	-	-
	III	Major Based Elective Course- I	17 V BT MBE1		5	4	EXT	25	75	100
	IV	Skill Based Elective Course -III	17 III BT SE3/3		2	2	INT	25	75	100
	V			Soft Skill Development	2	2	INT	25	75	100
Total Credits & Marks					30	26	-	-	-	600
VI	III	Core Course VIII	17 V BT 8	Pharmaceutical Biotechnology	6	6	EXT	25	75	100
		Core Course IX	17 V BT 9	Environmental Biotechnology	6	6	EXT	25	75	100
		Core Practical III	17 VI BT6 (P)	Plant Tissue Culture Technology	2 (3)*+ 2	4	INT	40	60	100
		Core Practical IV	17 VI BT 9 (P)	Environmental Biotechnology	5	4	INT	40	60	100
	IV	Major Based Elective Course II	17 VI BT MBE2		5	4	EXT	25	75	100
	IV	Major Based Elective Course III	17 VI BT MBE3		5	4	EXT	25	75	100
	V	GS		Gender Studies	1	1	INT	25	75	100
		EXTN		Extension Activities	-	1	INT	-	-	100
	Total Credits & Marks					30	30	-	-	-
Grand Total					180	140	-	-	-	4000