

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

SEM	COURSE	COURSE TITLE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
<b>I</b>	Core Course I	Microbiology	6	5	<b>EXT</b>	25	75	100
	Core Course II	Molecular Biology and Genetics	6	5	<b>EXT</b>	25	75	100
	Core Course III	Developmental Biology	6	5	<b>EXT</b>	25	75	100
	MBEC I	Molecular Oncology	4	4	<b>EXT</b>	25	75	100
	Core Practical I	Practical I- Microbiology, Molecular Biology , Genetics and Developmental Biology	4	-	-	-	-	-
	Core Practical II	Practical II: Biochemistry and Enzymology	4	-	-	-	-	-
		<b>TOTAL</b>		<b>30</b>	<b>19</b>	-	-	-
<b>II</b>	Core Course IV	Biochemistry	6	5	<b>EXT</b>	25	75	100
	Core Course V	Enzyme and Enzyme Technology	6	5	<b>EXT</b>	25	75	100
	MBEC II	Industrial Biotechnology	5	4	<b>EXT</b>	25	75	100
	Core Practical I	Practical I - Microbiology, Molecular Biology , Genetics and Developmental Biology	4	4	<b>EXT</b>	40	60	100
	Core Practical II Biochemistry and Enzymology	Practical II -Biochemistry and Enzymology	4	4	<b>EXT</b>	40	60	100
	NEC*	Biotechnology and Human Health	5	4	<b>INT</b>	25	75	100
		<b>TOTAL</b>		<b>30</b>	<b>26</b>			

*\*Offered by the Department to the students of other disciplines*

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SEM	COURSE	COURSE TITLE	CODE	HRS	CRD	INT/ EXT	CIA	SE	TOTAL
III	Core Course VIII	Recombinant DNA Technology	17 III PBT8	6	5	EXT	25	75	100
	Core Course IX	Cell and Tissue Culture Technology	17 III PBT9	5	5	EXT	25	75	100
	Core Course X	Plant Molecular Biology and Animal Biotechnology	17 III PBT10	5	5	EXT	25	75	100
	Core Practical III	Recombinant DNA Technology		3	*	EXT	40	60	-
	Core Practical IV	Cell and Tissue Culture Technology		3	*	EXT	40	60	-
	Major Based Elective Course I	Industrial Biotechnology	17 III PBT ME1	4	3	EXT	25	75	100
	Major Based Elective Course II	Pharmaceutical Biotechnology	17 III PBT ME2	4	3	EXT	25	75	100
<b>TOTAL</b>				<b>30</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500</b>
IV	Major Based Elective III	Bioinformatics, Intellectual Property Rights, Ecobiotechnology and Biostatistics	17 IV PBT ME3	6	4	EXT	25	75	100
	Major Based Elective Course IV	Bio-entrepreneurship	17 IV PBT ME4	6	4	EXT	25	75	100
	Core Practical III	Recombinant DNA Technology	17IVPBT8 P	4 (3* +4)	4	EXT	40	60	100
	Core Practical IV	Cell and Tissue Culture Technology	17IVPBT9 P	4 (3* +4)	4	EXT	40	60	100
	Project		17IVPBT9 P	10	6	EXT	25	75	100
<b>TOTAL</b>				<b>30</b>	<b>22</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500</b>
<b>GRAND TOTAL</b>				<b>120</b>	<b>90</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2000</b>