

STUDY & EVALUATION SCHEME
M.TECH (BIOTECH)
I YEAR: I SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	MHU1002	Technical Communication	2	0	-	40	60	100	2
2	MBT1011	Bioprocess Engineering and Technology	4	0	-	40	60	100	4
3	MBT1012	Biochemistry and Metabolic Regulation	4	0	-	40	60	100	4
4	MBT1013	Computational and Structural Biology	4	0	-	40	60	100	4
5	MBT1015	Molecular Biology and Virology	4	0	-	40	60	100	4
PRACTICAL/TRAINING/PROJECT									
6	MBT1508	Bioprocess Engineering Lab	-	-	2	80	20	100	1
7	MBT1509	Biochemistry and Computational Biology Lab	-	-	2	80	20	100	1
8	MBT1511	Molecular Biology and Virology Lab	-	-	2	80	20	100	1
9	MBT1504	Seminar-I	-	-	1	100	0	100	1
TOTAL			18	0	7	540	360	900	22

L - Lecture
T - Tutorial
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I YEAR: II SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	MBT2009	Recombinant DNA Technology	4	0	-	40	60	100	4
2	MBT2012	Advance Down Stream Processing	4	0	-	40	60	100	4
3	MBT2013	Advance Immunology and Immunological Techniques	4	0	-	40	60	100	4
4	MHU2001	Professional Ethics	2	0	-	40	60	100	2
5	---	Department Elective – I	3	0	-	40	60	100	3
6	---	Department Elective – II	3	0	-	40	60	100	3
PRACTICAL/TRAINING/PROJECT									
6	MBT2504	Seminar-II	0	0	1	100	-	100	1
7	MBT2510	Recombinant DNA Technology Lab	0	0	2	80	20	100	1
8	MBT2512	Comprehensive Viva Voce	0	0	1	80	20	100	1
9	MBT2515	Advance Down Stream Processing Lab	0	0	2	80	20	100	1
10	MBT2516	Mini Project	0	0	1	100	-	100	1
11	MBT2517	Immunotechnology Lab	0	0	2	80	20	100	1
TOTAL			20	0	9	760	440	1100	26

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STUDY & EVALUATION SCHEME
M.TECH (BIOTECH)
II YEAR: III SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
THEORY									
1	MBT3005	Industrial and Pharmaceutical Biotechnology	4	0	-	40	60	100	4
2	MMG3005	Entrepreneurship for Biotechnology	3	0	-	40	60	100	3
3	MBT3006	Enzyme Engineering and Technology	4	0	-	40	60	100	4
4	MBT3007	Ethical Issues in Biotechnology Engineering	3	0	-	40	60	100	3
5	MBT3009	Research Methodology for Biotechnology	2	0	-	20	30	100	2
6	---	Department Elective – III	3	0	-	40	60	100	3
PRACTICAL/TRAINING/PROJECT									
7	MBT3503	Seminar-III	0	0	1	100	0	100	1
8	MBT3510	Bio-analytical Lab	0	0	4	80	20	100	2
9	MBT3511	Research Project Phase-I	0	0	4	80	20	100	2
TOTAL			19	0	9	480	370	900	24

UNIVERSITY MANDATORY NON-CREDIT COURSE									
1	XHUX601	Human Values and Ethics	2	-	-	100	-	100	0

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STUDY & EVALUATION SCHEME
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II YEAR: IV SEMESTER

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
PRACTICAL/TRAINING/PROJECT									
1	MBT4508	Research Project Phase-II	-	-	32	50	50	100	16
TOTAL			0	0	32	50	50	100	16

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C - Credit

LIST OF DEPARTMENT ELECTIVE

S. NO.	SUBJECT CODE	SUBJECT
	Department Elective-I (Semester-II)	
1	MBT2105	Nano-biotechnology and Nano-devices
2	MBT2106	Microbial Engineering
3	MBT2107	Advances in Oncology
	Department Elective-II (Semester-II)	
1	MBT2203	Animal Cell Science and Technology
2	MBT2204	Cell and Tissue Engineering
3	MBT2206	Quality Control, Assurance and Design for Biological Process
	Department Elective-III (Semester-III)	
1	MBT3103	Medical Biotechnology
2	MBT3105	Bioreactor Design and Analysis
3	MBT3106	Biochemical and Biophysical Techniques