



M-TECH INDUSTRIAL BIOTECHNOLOGY CURRICULUM 2014

SEMESTER I					
THEORY	COURSE TITLE	L	T	P	C
MBT101	Principles of Process Engineering	4	0	0	4
MBT102	Advanced Biochemistry	3	0	0	3
MBT103	Industrial Microbiology and Fermentation Technology	3	0	0	3
MBT107	Plant and Animal Biotechnology	3	0	0	3
MBT1L1	Microbiology Lab	0	0	6	2
MBT1L2	Biochemistry Lab	0	0	6	2
TOTAL HOURS: 25			CREDITS:17		
SEMESTER II					
MBT201	Immunotechnology	3	0	0	3
MBT202	Recombinant DNA technology and Genetic Engineering	3	0	0	3
MBT203	Bioprocess Engineering and Plant	3	2	0	4
MBT204	Enzyme Engineering	3	0	0	3
MBT2L1	Bioprocess Engineering Lab	0	0	6	2
MBT2L2	Plant Biotechnology lab	0	0	6	2
TOTAL HOURS: 26			CREDITS:17		
SEMESTER III					
MBT301	Downstream Processing	4	0	0	4
MBT302	Stem Cell and Tissue Engineering	3	0	0	3
MBTxx	Elective I	3	0	0	3
MBT3L1	Immunotechnology & Animal Biotechnology lab	0	0	6	2
MBT3L2	Downstream Processing lab	0	0	6	2
MBT3P1	Project phast I	0	0	6	2
TOTAL HOURS: 28			CREDITS:16		
SEMESTER IV					
MBT4P1	Project phase II	0	0	35	12
TOTAL HOURS: 35			CREDITS:12		
TOTAL CREDITS: 62					



LIST OF ELECTIVE SUBJECTS

MBT050	Biopharmaceutical Technology	3	0	0	3
MMA051	Biostatistics	3	0	0	3
MBT052	Food Process Engineering	3	0	0	3
MBT053	Biosensor Technology	3	0	0	3
MBT054	Nanobiotechnology	3	0	0	3
MBT055	Metabolic Engineering	3	0	0	3
MBT056	Waste Management Technology	3	0	0	3
MBT057	Biofuel Technology	3	0	0	3
MBT058	Industrial Safety Engineering	3	0	0	3
MBT059	Cancerbiology	3	0	0	3