

**Course structure of M.Sc. Degree Course in Biotechnology
Under Choice Based Credit System- 2018**

SEMESTER I

Course No. & Description	Title	Credits	IA	Univ. Exam	Total Credits
MBT&MedBT 101 Core Course-Theory	Microbiology	3	40	60	25
MBT&MedBT 102 Core Course –Theory	Biochemistry	3	40	60	
MBT&MedBT 103 Core Course –Theory	Cell & Developmental Biology	3	40	60	
MBT&MedBT 104 Core Course –Theory	Genetics	3	40	60	
MBT&MedBT 105 Core Course –Theory	Molecular Biology	3	40	60	
MBT&MedBT 106 Core Course –Practical	Biochemistry & Molecular Biology Lab	4	40	60	
MBT&MedBT 107 Core Course –Practical	Cell Biology & Genetics Lab	4	40	60	
MBT&MedBT 108 Core Course –Practical	Microbiology Lab	2	40	60	

SEMESTER II

Course No. & Description	Title	Credits	IA	Univ. Exam	Total Credits
MBT&MedBT 201 Core Course –Theory	Genetic Engineering	3	40	60	30
MBT&MedBT 202 Core Course –Theory	Analytical Biotechnology	3	40	60	
MBT&MedBT 203 Core Course –Theory	Immunology	3	40	60	
MBT&MedBT 204 Core Course –Theory	Genomics & Proteomics	3	40	60	
MBT&MedBT 205 Core Course - Theory	Nanobiotechnology	2	40	60	
MBT 206 Core Course -Theory	Animal Tissue Culture	2	40	60	
MBT&MedBT 207 Core Course –Practical	Genetic Engineering and Genomics Lab	4	40	60	
MBT&MedBT 208 Core Course –Practical	Analytical Techniques and Proteomics Lab	4	40	60	
MBT&MedBT 209 Core Course - Practical	Immunology & Nanotechnology Lab	4	40	60	
MBT&MedBT 210 Elective Course I	Elective Bioentrepreneurship/ IPR I	2	Continuous Assessment		

Elective Courses in Sem II: 1) MBT 210: Elective Course I; Option I: Bioentrepreneurship, Option II: IPR I

SEMESTER III

Course No. & Description	Title	Credits	IA	Univ. Exam	Total Credits
MBT 301 Core Course –Theory	Environmental Biotechnology	3	40	60	27
MBT 302 Core Course –Theory	Plant Biotechnology	3	40	60	
MBT 303 Core Course –Theory	Microbial Technology	3	40	60	
MBT 304 Core Course –Theory	Food Biotechnology	2	40	60	
MBT&MedBT 305 Core Course-Theory	Biostatistics	2	40	60	
MBT&MedBT 306 Core Course-Theory	Research Methodology	2	40	60	
MBT 307 Core Course-Practical	Environment & Plant Biotech Lab	4	40	60	
MBT 308 Core Course-Practical	Bioprocess & Food Biotech Lab	4	40	60	
MBT&MBT 309 Core Course-Practical	Biostatistics Lab	2	40	60	
MBT&MedBT 310 Elective Course II	Biomedical Waste Management/ Drug designing/ IPR II	2	Continuous Assessment		

SEMESTER IV

Course No. & Description	Title	Credits	IA	Univ. Exam	Total Credits
MBT&MedBT 401 Core Course	Research Project	20	40	60	20

Total Credits Offered: 25 C, Sem I+ 30 C, Sem II +27C, Sem III+ 20C, Sem IV = 102 C