

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

**SEMESTER I**

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

## SEMESTER II

Course No. & Description	Title	Credits	IA	Univ. Exam	Total Credits
<b>MBT&amp;MedBT 201</b> Core Course –Theory	Genetic Engineering	3	40	60	31
<b>MBT&amp;MedBT 202</b> Core Course –Theory	Analytical Biotechnology	3	40	60	
<b>MBT&amp;MedBT 203</b> Core Course –Theory	Immunology	3	40	60	
<b>MBT&amp;MedBT 204</b> Core Course –Theory	Genomics & Proteomics	3	40	60	
<b>MBT&amp;MedBT 205</b> Core Course - Theory	Nanobiotechnology	2	40	60	
<b>MedBT 206</b> Core Course -Theory	Human Physiology	3	40	60	
<b>MBT&amp;MedBT 207</b> Core Course –Practical	Genetic Engineering and GenomicsLab	4	40	60	
<b>MBT&amp;MedBT 208</b> Core Course –Practical	Analytical Techniques and Proteomics Lab	4	40	60	
<b>MBT&amp;MedBT 209</b> Core Course - Practical	Immunology & Nanobiotechnology Lab	4	40	60	
<b>MBT&amp;MedBT 210</b> 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**

<b>Course No. &amp; Description</b>	<b>Title</b>	<b>Credits</b>	<b>IA</b>	<b>Univ. Exam</b>	<b>Total Credits</b>
<b>MedBT 301</b> Core Course –Theory	Animal Tissue Culture & Stem Cell Biology	3	40	60	28
<b>MedBT 302</b> Core Course –Theory	Medical Biochemistry & Drug Discovery	3	40	60	
<b>MedBT 303</b> Core Course –Theory	Infectious Diseases	3	40	60	
<b>MedBT 304</b> Core Course –Theory	Pharmaceutical Biotechnology & Molecular Diagnostics	3	40	60	
<b>MBT&amp;MedBT 305</b> Core Course-Theory	Biostatistics	2	40	60	
<b>MBT&amp;MedBT 306</b> Core Course-Theory	Research Methodology	2	40	60	
<b>MedBT 307</b> Core Course-Practical	ATC & Pharma Biotech Lab	4	40	60	
<b>MedBT 308</b> Core Course-Practical	Infectious Diseases & Biostatistics Lab	4	40	60	
<b>MedBT 309</b> Core Course-Practical	Medical Biochemistry & Drug Discovery Lab	2	40	60	
<b>MBT&amp;MedBT 310</b> Elective Course II	Biomedical Waste Management/ Drug designing/ IPR II	2	Continuous Assessment		

**SEMESTER IV**

<b>Course No. &amp; Description</b>	<b>Title</b>	<b>Credits</b>	<b>IA</b>	<b>Univ. Exam</b>	<b>Total Credits</b>
<b>MBT&amp;MedBT 401</b> Core Course	Research Project	20	40	60	20

**Total Credits Offered: 25 C, Sem I+ 31 C, Sem II +28C, Sem III+ 20C, Sem IV = 104 C**