

Revised M.Tech Biotechnology Programme Structure May, 2017

FIRST SEMESTER

S. No	Course Code	Title	Contact Hours				Credits
			L	T	P	Total	
1.	17M11BT111	Biomolecules and cell communication	3	-	-	3	3
2.	17M11BT112	Molecular modeling and Drug Design	3	-	-	3	3
3.		Elective – I	3	-	-	3	3
4.		Elective – II	3	-	-	3	3
5.		Elective – III	3	-	-	3	3
6.	17M17BT111	Project Based Learning - I					2
7.	17M15BT111	Biotechniques Lab – I	-	-	6	6	3
		TOTAL					20

Departmental Elective (To be updated from time to time)

- 17M12BT111 Biosensors
- 17M12BT112 Animal and Plant Biotechnology
- 17M12BT113 Information Technology for biologists
- 17M12BT114 Enzyme Technology
- 17M12BT115 Environmental Biotechnology
- 17M12BT116 Regulatory affairs
- 17M12BT117 Clinical Trials & Data base management
- 17M12BT118 Product development in biotechnology
- 17M12BT119 Phytotherapeutics and Pharmacology
- 17M12BT120 Innate immunology
- 17M12BT121 Advanced Molecular Biotechnology
- 17M12BT122 Advanced Microbiology and Immunology

SECOND SEMESTER

S. No	Course Code	Title	Contact Hours				Credits
			L	T	P	Total	
1.	17M11BT113	Bioprocess and Industrial Biotechnology	3	-	-	3	3
2.	17M11BT114	Diseases and healthcare	3	-	-	3	3
3.		Elective – IV	3	-	-	3	3
4.		Elective – V	3	-	-	3	3
5.		Elective – VI	3	-	-	3	3
6.	17M17BT112	Project Based Learning - II					2
7.	17M15BT112	Biotechniques Lab– II	-	-	6	6	3
		TOTAL					20

Departmental Elective (To be updated from time to time)

- 17M12BT123 Bio separation Technology
 17M12BT124 System Biology and Neural Network
 17M12BT125 Nanobiotechnology
 17M12BT126 Vaccine Biotechnology
 17M12BT127 Nutraceuticals
 17M12BT128 Structural Biology
 17M12BT129 Metagenomics
 17M12BT130 Microbial Technology
 17M12BT131 Drug Delivery
 17M12BT132 Research Methodology and Data Validation
 17M12BT133 Experimental models in Research
 17M12BT134 Genomics & Society

THIRD SEMESTER

SNo	Course Code	Title	Contact Hours				Credits
			L	T	P	Total	
1.	17M17BT211	Seminar & Term Paper 'OR' Earn credits by transfer ex. MOOCs, Course Work at another Institute, Supervised Study					4
2.	17M17BT212	Project Based Learning - III					4
3.	17M17BT213/ 17M17BT214/ 17M17BT215	Dissertation /Industrial Project / Entrepreneurial Project					4
		TOTAL					12

FOURTH SEMESTER

SNo	Course Code	Title	Contact Hours				Credits
			L	T	P	Total	
1.	17M17BT216/ 17M17BT217/ 17M17BT218	Dissertation /Industrial Project/ Entrepreneurial Project					18
		TOTAL					18

TOTAL CREDITS: 70