

JSS Science and Technology University Sri Jayachamarajendra College of Engineering, Mysuru – 570 006 DEPARTMENT OF BIOTECHNOLOGY, SCHEME OF TEACHING I Semester M. Tech. - Biotechnology

	Name of the subject	Teaching	Credits				Contact hours				Exam duration in hrs
Sub code		Department	L	T	P	Total		CIE	SEE	Total	
BTM 110	Frontiers in Biotechnology	Biotechnology	5	-	-	5	5	50	50	100	03
BTM 120	Engineering Principles of Biotechnology	Biotechnology	4	1	-	5	6	50	50	100	03
BTM 130	Structure and Functions of Biomolecules	Biotechnology	5	-	-	5	5	50	50	100	03
BTM 140	Immunology and Infection Biology	Biotechnology	5	-	-	5	5	50	50	100	03
BTM 150	Bioprocess Optimization and Control	Biotechnology	4	-	1	5	6	50	50	100	03
BTM160L	Microbiology and Molecular Techniques	Biotechnology	-	-	1.5	1.5	3	50	-	50	-
BTM170	Seminar	Biotechnology	-	-	1.5	1.5	3	50	-	50	-
			Total Credits			28	33	Total Marks 600			



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DEPARTMENT OF BIOTECHNOLOGY, SCHEME OF TEACHING

II Semester M. Tech. - Biotechnology

	Name of the subject	Teaching	Credits				Contact		Marks	Exam duration in hrs	
Sub code		Department	L	Т	P	Total	hours	CIE	SEE	Total	
BTM 210	Molecular Cell Biology and Genetic Engineering	Biotechnology	5	-	-	5	5	50	50	100	03
BTM 220	Molecular Diagnostic and Therapeutic Biotechnology	Biotechnology	4		1	5	6	50	50	100	03
BTM 230	Process Modeling and Simulation	Biotechnology	5	-	-	5	5	50	50	100	03
BTM 24X	Elective-1	Biotechnology	5	-	-	5	5	50	50	100	03
BTM 25X	Elective-2	Biotechnology	5	-	-	5	6	50	50	100	03
BTM260L	Principles of Bioengineering Lab	Biotechnology	-	-	1.5	1.5	3	50	-	50	-
BTM270	Seminar	Biotechnology	-	-	1.5	1.5	3	50	-	50	-
		Tot	tal Cre	dits	28	33	Total	Marks	600		

ELECTIVES

Sl. No	Subject Code	Subject	Sl. No	Subject Code	Subject
1	BTM241	Biomaterials and Surface Biotechnology	1	BTM251	Human Molecular Genetics and Cancer
2	BTM242	Process Validation and Engineering	2	BTM252	Regulatory Basis of Development and
					Manufacture of Biopharmaceuticals
3	BTM243	Quality Control and Management	3	BTM253	Health Care Biotechnology
4	BTM244	Instrumental Methods of Analysis			
5	BTM245	Chemical Reaction Engineering,			
		Transport Phenomena and Mathematical			
		Method			



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DEPARTMENT OF BIOTECHNOLOGY, SCHEME OF TEACHING III Semester M. Tech. - Biotechnology

SI. No	Subject code	Course title	Teaching department		Cı	redits		Contact hours		Marks	Exam duration in hrs	
				L	Т	Р	Total		CIE	SEE	Total	
1	BTM310	Practical Training in Industry / Exploration Research	Biotechnology	0	0	4	4	_	100	_	100	_
2.	BTM41P	Project Work (Phase-I)	Biotechnology	0	0	14	14	_	100	_	100	_
			,	Total credits		18	-	Total 2 marks		200	-	



JSS Science and Technology University
Sri Jayachamarajendra College of Engineering, Mysuru – 570 006
DEPARTMENT OF BIOTECHNOLOGY IV Semester M. Tech. - Biotechnology

SI. No	Subject code	Course title	Teaching		Cr	edits		Contact	Marks			Exam duration
			department	L	Т	Р	Total	hours	CIE	SEE	Total	in hrs
1	BTM41P	Project Work (Phase-II)	Biotechnology	_	_	26	26	_	200	100	300	3
				То	tal cred	lits	26	-	Total	marks	300	1