

M.Tech Biotechnology (Two Year Course) Course Structure

First year (Ist semester)

Paper Code	Title of the paper	Credits	Duration of Exam (Hours)	Marks			Scheme of Instruction (Hours)			
				Semester End Exam	Con. Evaluation	Total	L	T	P	Total
	Biochemistry & Metabolic Engineering		3	60	40	100	3	1	–	4
	Microbiology & Immunology		3	60	40	100	3	1	–	4
	Biochemical Engineering		3	60	40	100	3	1	–	4
	Bioanalytical Techniques & Biostatistics		3	60	40	100	3	1	–	4
	Enzyme Technology		3	60	40	100	3	1	–	3
	Industrial Biotechnology & Downstream processing		3	60	40	100	3	1	–	4
	Industrial Biotechnology & Downstream processing Lab		3	60	40	100	–	–	3	3
	Microbiology & Immunology Lab		3	60	40	100	–	–	3	3
	Total credits					800				

Firs year (2nd Semester)

Paper Code	Title of the paper	Credits	Duration of Exam (Hours)	Marks			Scheme of Instruction (Hours)			
				Semester End Exam	Con. Evaluation	Total	L	T	P	Total
	Molecular Biology & r-DNA Technology		3	60	40	100	3	1	–	4
	Bioprocess validation & CGMP		3	60	40	100	3	1	–	4
	Bioreactor modeling & simulation		3	60	40	100	3	1	–	4
	Applied Bioinformatics		3	60	40	100	3	1	–	4
	Environmental Biotechnology		3	60	40	100	3	1	–	4
	Plant and Animal Biotechnology		3	60	40	100	3	1	–	4
	Bioprocess & Simulations Lab		3	60	40	100	–	–	3	3
	Molecular Biology & Genetic Engineering Lab		3	60	40	100	–	–	3	3
	Total credits					800				

Second year (1st semester)

Paper Code	Title of the paper	Credits	Duration of Exam (Hours)	Marks			Scheme of Instruction (Hours)			
				Semester End Exam	Con. Evaluation	Total	L	T	P	Total
	Project		3	60	40	100	-	-	-	-
	Total credits					100				

Second year (2nd Semester)

Paper Code	Title of the paper	Credits	Duration of Exam (Hours)	Marks			Scheme of Instruction (Hours)			
				Semester End Exam	Con. Evaluation	Total	L	T	P	Total
	Project work		3	60	40	100	-	-	-	-
	Total credits					100				
	Grand Total					1800				

Project work (1Year)

All the students have to compulsorily attend/ undergo project work in a highly reputed research organization/ industry for a period of one year and the same has to be submitted as research project report for final evaluation followed by they have to face Semester end viva voce.