

## SCHOOL OF LIFE SCIENCE AND BIOTECHNOLOGY

## **Department of Biotechnology**

M.Tech. Biotechnology

Course Grid -

SEMESTER 1							
No.	Subject	Subject	Subject Name	L-T-P	Credit		
	Туре	Code					
1	Theory BIT21551 Bioprocess Engineering and Technology				4		
2	Theory BIT21552 Advanced Genetic Engineering 3				4		
3	Theory	BIT21553	Advances in Animal biotechnology	3-1-0	4		
4	Theory	BIT21557/59	Professional Elective- I	3-0-0	3		
5	Theory	BIT21560/61	Professional Elective- II	3-0-0	3		
6	Theory	CSE21605/	Professional Elective- III	3-0-0	3		
	LWJ21036						
7 Laboratory BIT22554 Bio separation a		Bio separation and Bioprocess Technology	0-0-3	2			
			Lab				
8	Laboratory	BIT22555	Advanced Genetic Engineering Lab	0-0-3	2		
9	Laboratory	Laboratory BIT22556 Animal Biotechnology Lab 0-0-3 2					
Total 18-3-9 27							

SEMESTER 2							
No.	Subject	Subject	Subject Name	L-T-P	Credit		
	Туре	Code					
1	Theory	3-1-0	4				
2	Theory	BIT21564	Biotechnology of Plant Metabolites	3-1-0	4		
3	Theory	BIT21565	Advanced Genomics and Proteomics	3-1-0	4		
4	Theory	BIT21566	Enzyme technology	3-0-0	3		
5	Theory	BIT21567/68	Professional Elective IV	3-0-0	3		
6	Theory	BIT21569/70	Professional Elective V	3-0-0	3		
7	Laboratory	BIT22571	Advanced Immunology Lab	0-0-3	2		
8	Laboratory	aboratory BIT22572 Plant biotechnology Lab 0					
9 Laboratory BIT22573 Advanced Genomics and Proteomics Lab 0-0-3					2		
Total				18-3-9	27		

**Total Credits (First Year): 54** 

YEAR 2

	SEMESTER 3							
No. Subject Subject Type Code			Subject Name	L-T-P	Credit			
1	Theory	BIT21574	Entrepreneurship, IPR & Biosafety	3-1-0	4			
2	Project	BIT25575	Dissertation-I	0-0-24	12			
3	Project	BIT24576	Industry Internship		2			
Total	•	•		3-1-30	18			

SEMESTER 4							
No.	No. Subject Subject Name L-T-P Credi						
Type Code							
1	Project	BIT25577	Dissertation-II	0-0-32	16		
2	Project	BIT25578	Comprehensive Viva		2		
Total				0-0-32	18		

Total Credits (Second Year): 36

Professional Elective I		Professional Elective II			ective II	Professional Elective III		
(Choose any one paper in Sem I) *		(Choose any one paper in Sem I) *		(Choose any one paper in Sem I) *				
1	Biostatistics & Bioinformatics (BIT21557)	1.	1. Environmental Biotechnology (BIT21569)		BIT21569)	1	Computer Programming and Language (CSE21605)	
2	Nanobiotechnology (BIT21559)	2.	2. Applied Food Technolog (BIT21561)		echnology	2	Industrial Law (LWJ21036)	
	Professional Elective IV				Professional Elective V			
(Choose any one paper in Sem II) *				(Choose any one paper in Sem II) *				
1	1 Bioreactor Analysis & Design (BIT21567)			1.	Stem Cell Technology (BIT21560)			
2	2 Pharmaceutical Biotechnology (BIT21568)			2.	Research M	etho	odology and GLP (BIT21570)	