

# M.Tech. Biotechnology & Biochemical Engineering

Department of Biotechnology & Bioengineering

School of Biosciences & Technology

## Program Structure

Course Name	L	T	P	S	C
<b>Sem-I</b>					
Advanced Downstream Processing and Separation Techniques	3	0	1	0	4
Bioprocess Engineering and Process Biotechnology	3	0	1	0	4
Molecular Biology Technique	3	0	1	0	4
Proteomics & Genomics	3	0	0	0	3
Industrial Biotechnology	3	0	0	0	3
<b>Elective-1</b>	3	0	0	0	3
Biomaterials & Tissue Engineering					
Plant Cell and Tissue Culture					
Personalized Medicine and Pharmacogenomics					
	<b>Total Credit</b>				<b>21</b>
<b>Sem-II</b>					
Advanced Bioreactor Engineering	3	0	0	0	3
Transport & Advanced Biochemical Engineering	3	0	1	0	4
Drug Discovery & Computational Biology	3	0	1	0	4
Advanced Protein and Enzyme Engineering	3	0	1	0	4
Bioprocess Modelling and Simulation	3	0	0	0	3
<b>Elective-2</b>	3	0	0	0	3
Biosensor & Nanobiotechnology					
Metabolic Engineering					
Advanced Bioinstrumentation					
	<b>Total Credit</b>				<b>21</b>
<b>Sem-III</b>					
MOOCs-1 (Domain-specific online course)	2	0	0	0	2
Research Project-I	0	0	12	0	12
	<b>Total Credit</b>				<b>14</b>
<b>Sem-IV</b>					
Research Project II	0	0	14	0	14
	<b>Total Credit</b>				<b>14</b>