	Chemical and Biochemical Engineering							
	SEME	STER - I (Common for all B.Tech Courses	<u> </u>					
S.No	C. Code	Course	L	Т	P	C		
1	MA108T	Calculus	3	1.5	0	9		
2	PH101T	Quantum Physics and Applications	2	1	0	6		
3	PH101L	Hands on Science Laboratory – I	0	0	3	3		
4	CS101C	Computer Programming	3	0	3	9		
5	HS101T	Design Thinking and Creativity	1	0	0	PP/NP		
6	CY101T	Fundamental Concepts & Applications of Chemistry	3	0	0	6		
7	BB101T	Introduction to Modern Biology	3	0	0	6		
8	NO 105/107	NSO/NSS	0	0	2	2		
	Total Credits					41		
		Semester II						
S.No	Course Code	Course Name	L	T	P	C		
1	MA109T	Linear Algebra and Differential Equations	3	1.5	0	9		
2	ME101C	Engineering Graphics Lab	1	0	3	6		
3	ME101L	Hands on Engineering Lab	0	0	3	3		
4	CH101T	Introduction to Chemical Engineering	3	0	0	6		
5	BB201T	Biomolecules	2	1	0	6		
6	CY201T	Organic Chemistry	3	0	0	3		
7	NO 105/NO 107	NSO/NSS	0	0	2	2		
		Total Credits				35		
		Semester III						
S.No	Course Code	Course Name	L	T	P	C		
1	EE205T	Introduction to Probability	3	0	0	6		
2	EE207T	Data analysis	3	0	0	3		
3	CL204T	Fluid Mechanics and Mechanical Operations	3	0	0	6		
4	CH205T	Heat Transfer for Chemical Engineers	3	0	0	6		
	CH203T	Introduction to Chemical Engineering						
5		Thermodynamics	3	0	0	6		
6	ME201T	Engineering Mechanics	2	1	0	6		
7	BB401T	Basics of Cell Biology and Genetics	3	0	0	6		
		Total Credits				36		
		Semester IV						
S.No	Course Code	Course Name	L	Т	P	C		
1	CS204T	Artificial Intelligence	3	0	0	6		
2	CS201L	Artificial Intelligence lab	0	0	3	3		
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3	CH206T	Materials Science fir Chemical Engineers	3	0	0	6		
4	BB403T	Biophysics	3	0	0	3		
5	BB201L	Biology Lab I		0	3	3		
6	CH201L	Chemical Engineering lab 1 (Thermodynamics and flu		0	3	3		
7	CL201T	Reaction Engineering		0	$\frac{3}{0}$	6		
8	CH202T	Mass Transfer		0	0	6		
0	C112021	Mass Transfer 3 0 Total Credits		Į v		36		
		Total Cicuits				50		
Semester V								
S.No	Course Code	Course Name	\mathbf{L}	Т	P	C		
1	CH304T	Applications of Mass Transfer	3	0	0	6		
2	CH308T	Advanced Chemical Reaction Engineering	3	0	0	6		
3	CH307T	Process Dynamics and Control	3	0	0	6		
4	CH302T	Process Equipment Design and Economics	3	0	0	6		
5	CH301L	Chemical Engineering Lab II	0	0	3	3		
6	HS201T	Economics	3	0	0	6		
		Total Credits		1		33		
		Semester VI						
S.No	Course Code	Course Name	L	T	P	C		
1		Transport Phenomena	3	0	0	6		
2	CH301C	Numerical Method in Chemical Engineering	3	0	0	6		
3	CH302L	Chemical Engineering Lab III	0	0	3	3		
4		Program Elective-I	3	0	0	6		
5	CH306T	AI in Chemical Engineering	3	0	0	6		
6	CH303L	Chemical Engineering Lab IV	0	0	3	3		
7	CE301T	Environmental Studies	3	0	0	6		
		Total Credits			36			
		Semester VII						
S.No	Course Code	Course Name	L	T	P	C		
1	CL405T	Bio Process Engineering	3	0	0	6		
2	CL401S	Sciemtific Presentation	0	0	3	3		
3		Program Elective-II	3	0	0	6		
4		Program Elective-III/BTP-I	3	0	0	6		
5		HSS Elective-I	3	0	0	6		
		Total Credits				27		
0.33		Semester VIII		1				
S.No	Course Code	Course Name	L	T	P	C		
1		Program Elective-IV	3	0	0	6		
2		Program Elective-V/BTP-II	3	0	0	6		

3		Institute Elective-I	3	0	0	6
4		HSS Elective-II	3	0	0	6
		Total Credits				24
	Overal Credits Re	quired (Minimum)				268
	Program Electives	5				
	Institute Electives	1				
	HSS Electives	2	2	68		