

**B.E. DEGREE
IN
CHEMICAL ENGINEERING**

Year : I

Part : I

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
Duration Hrs	Marks	Duration Hrs	Marks											
1	SH 401	Engineering Mathematics I	3	2		5	20	3	80				100	
2	SH 403	Engineering Chemistry	3	1	3	7	20	3	80	20	3	30	150	
3	CT 401	Computer Programming	3		3	6	20	3	80	50			150	
4	ME 401	Engineering Drawing	1		3	4				60	3	40	100	
5	EE 401	Basic Electrical Engineering	3	1	1.5	5.5	20	3	80	25			125	
6	EX 401	Basic Electronics Engineering	3	1	1.5	5.5	20	3	80	25			125	
Total			16	5	12	33	100	15	400	180	6	70	750	

Year : I

Part : II

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
Duration Hrs	Marks	Duration Hrs	Marks											
1	SH 451	Engineering Mathematics -II	3	2		5	20	3	80				100	
2	SH 452	Engineering Physics	4	1	2	7	20	3	80	20	3	30	150	
3	ME 451	Computer Aided Drawing	1		3	4	20	1.5	40	40			100	
4	EC 451	Basic Organic Chemistry	3	1	3	7	20	3	80	20	3	30	150	
5	ME 452	Workshop Technology	1		3	4	10			40			50	
6	CE 451	Applied Mechanics	3	2		5	20	3	80				100	
Total			15	6	11	32	110	13.5	360	120	6	60	650	

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Year : II

Part : I

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
Duration Hrs	Marks	Duration Hrs	Marks											
1	SH 501	Engineering Mathematics III	3	2		5	20	3	80				100	
2	SH 502	Communication English	3	1	2	6	20	3	80	25			125	
3	EC 501	Biochemistry	3	1		4	20	3	80				100	
4	EC 502	Basic Physical Chemistry	3	1	3	7	20	3	80	50			150	
5	EC 503	Fluid Mechanics	4	1	1.5	6.5	20	3	80	25			125	
6	EC 504	Chemical Process Calculations	4	1		5	20	3	80				100	
Total			20	7	6.5	33.5	120	18	480	100			700	

Year : II

Part : II

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
Duration Hrs	Marks	Duration Hrs	Marks											
1	SH 553	Numerical Methods	3	1	3	7	20	3	80	50			150	
2	EC 551	Thermodynamics I	3	1		4	20	3	80				100	
3	EC 552	Chemical Process Industries I	3	1		4	20	3	80				100	
4	EC 553	Heat Transfer	4	1	1.5	6.5	20	3	80	25			125	
5	EC 554	Engineering Materials	3	1		4	20		80				100	
6	EC 555	Environmental Science & Pollution Control	3	1	1.5	5.5	20	3	80	25			125	
Total			19	6	6	31	120	15	480	100			700	

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Year : III

Part : I

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
								Duration Hrs	Marks		Duration Hrs	Marks		
1	SH 602	Probability and Statistics	3	1		4	20	3	80				100	
2	EC 601	Thermodynamics II	3	1		4	20	3	80				100	
3	EC 602	Mass Transfer I	3	1	3	7	20	3	80	50			150	
4	EC 603	Chemical Process Industries II	3	1		4	20	3	80				100	
5	EC 604	Mechanical Operation	3	1	3	7	20	3	80	50			150	
6	EC 605	Chemical Reaction Engineering I	3	1		4	20	3	80				100	
Total			18	6	6	30	120	18	480	100			700	

Year : III

Part :II

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
								Duration Hrs	Marks		Duration Hrs	Marks		
1	EC 651	Chemical Engineering Design I	3	1		4	20	3	80				100	
2	EC 652	Instrumentation and Process Control	3	1	1.5	5.5	20	3	80	25			125	
3	EC 653	Elective I	4		1.5	5.5	20	3	80	25			125	
4	EC 654	Mass Transfer II	3	1		4	20	3	80				100	
5	EC 655	Chemical Reaction Engineering II	3	1	1.5	5.5	20	3	80	25			125	
6	EC 656	Food and Beverage	4			4	20	3	80				100	
Total			20	4	4.5	28.5	120	18	480	75			675	

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Year : IV

Part : I

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
								Duration Hrs	Marks		Duration Hrs	Marks		
1	EC 701	Chemical Engineering Design II	3	1		4	20	3	80				100	
2	EC 704	Elective II	4		1.5	5.5	20	3	80	25			125	
3	EC 706	Modeling and Simulation in Chemical Engineering	3	1	1.5	5.5	20	3	80	25			125	
4	EC 707	Maintenance Engineering and Safety	3	1		4	20	3	80				100	
5	EC 708	Process Economics and Plant Design	3	1		4	20	3	80				100	
6	EC 709	Project I			3	3				10		40	50	
7	EC 710	Industrial & Institutional Attachment			6	6				40		60	100	
Total			16	4	12	32	100	15	400	100	0	100	700	

Year : IV

Part : II

Teaching Schedule							Examination Scheme						Total	Remark
SN	Course Code	Course Title	L	T	P	Total	Theory			Practical				
							Assessment Marks	Final		Assessment Marks	Final			
								Duration Hrs	Marks		Duration Hrs	Marks		
1	CE 752	Engineering Professional Practice	2			2	10	1.5	40				50	
2	EC 752	Biochemical Engineering	3	1	1.5	5.5	20	3	80	25			125	
3	EC 753	Elective III	4		1.5	5.5	20	3	80	25			125	
4	EC 755	Mines, Fuels & Energy	3	1	1.5	5.5	20	3	80	25			125	
5	EC 756	Transport Phenomena	3	1		4	20	3	80	25			125	
6	EC 757	Project II			6	6				20		80	100	
Total			15	3	10.5	28.5	90	13.5	360	120		80	650	

**B.E. DEGREE
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Electives:

- I Nano Technology/Construction Materials/Electrochemical & Renewable Energy
- II Pharmaceuticals Engineering/Mining and Mineral Engineering/Biomaterials
- III Polymer Engineering/Corrosion Science and Engineering/Explosive and Blasting Technology