

B. Tech. Year I, Sem I							Evaluation Scheme					
Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01MA2101	Differential and Integral Calculus	BSC	3	2	0	5	50	30	20	25	25	150
01CI1101	Elements of Civil Engineering	ESC	3	0	2	4	50	30	20	25	25	150
01ME1101	Elements of Mechanical Engineering	ESC	3	0	2	4	50	30	20	25	25	150
01SL0102 / 01SL0103	Reading & Writing for Technology / Speaking & Presentation Skills	HSMC	2	0	0	2	0	30	20	25	25	100
01CH1101	Engineering Chemistry – I	BSC	3	0	2	4	50	30	20	25	25	150
01EN1101	Basics of Environmental Studies	ESC	2	0	0	0	50	30	20	0	0	100
01CR1103	Value Education	HSMC	2	0	0	0	0	0	0	50	50	100
01GS0103	Indian Constitution	HSMC	1	0	0	0	0	0	0	0	0	0
01CR0105	Verbal Ability – 1	HSMC	1	0	0	0	50	0	0	0	50	100
	Total*	28 hrs	20	2	6	19	300	180	120	175	225	1000
AU0001	National Cadet Corps -1		1	0	2	2*	0	0	0	0	0	0

B. Tech. Year I, Sem II							Evaluation Scheme					
Subject Code	Subject Name	Category	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01MA0103	Matrix Algebra and Vector Space	BSC	3	2	0	5	50	30	20	25	25	150
01CE1101	Computer Programming	ESC	4	0	2	5	50	30	20	25	25	150
01ME1102	Engineering Graphics	ESC	3	0	4	5	50	20	30	25	25	150
01EE1101	Basics of Electrical and Electronics Engineering	ESC	4	0	2	5	50	30	20	25	25	150
01ME1104	Mechanical Workshop	ESC	0	0	2	1	0	0	0	0	50	50
01PY0101	Physical Education/Sports/Yoga	MC	0	0	2	0	0	0	0	0	0	0
01CR0106	Verbal Ability – 2	HSMC	1	0	0	0	50	0	0	0	50	100
	Total*	29 hrs	15	2	12	21	250	120	80	100	200	750
AU0002	National Cadet Corps-2		1	0	2	2*	0	0	0	0	0	0

B. Tech. Year II, Sem III							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01CH1301	Fluid Mechanics	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH1302	Chemical Process Calculation	PCC-CE	3	1	0	4	50	30	20	25	25	150
01CH1303	Mechanical Operations	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH1306	Engineering Chemistry II	BSC	3	2	0	4	50	30	20	25	25	150
01MA0304	Applied Mathematics in Chemical Engineering	BSC	2	1	0	3	50	30	20	25	25	150
01CR0303	Quantitative & Logical Ability – 1	HSMC	1	0	0	0	50	0	0	0	50	100
01CR0302	Professional Ethics	HSMC	1	0	0	1	0	0	0	50	50	100
	Total		16	2	6	20	300	150	100	175	225	950

B. Tech. Year II, Sem IV							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01CH1401	Chemical Engineering Thermodynamics- I	ESC	3	1	0	4	50	30	20	25	25	150
01CH1407	Heat Transfer	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH1406	Mass Transfer-I	PCC-CE	3	0	2	4	50	30	20	25	25	150
01MA0401	Numerical Methods in Chemical Engineering	BSC	3	0	2	4	50	30	20	25	25	150
	Department Elective I	PEC-CE	3	0	0	3	50	30	20	25	25	150
01CH1402	Material Science and Engineering	PCC-CE	3	0	0	3	50	30	20	0	0	100
	Total		15	1	6	22	250	150	100	125	125	750

Departmental Elective-I												
01CH0408	Energy Technology	PEC	3	0	0	3	50	30	20	0	0	100
01CH0409	Introduction to Membrane Technology	PEC	3	0	0	3	50	30	20	0	0	100

B. Tech. Year III, Sem V							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01CH0507	Mass Transfer-II	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH0502	Cleaner Production	PCC-CE	4	2	0	5	50	30	20	25	25	150
01CH0503	Chemical Engineering Thermodynamics-II	PCC-CE	3	2	0	4	50	30	20	25	25	150
01CH0504	Instrumentation & Process Control	PCC-CE	4	0	2	5	50	30	20	25	25	150
01CH0505	Safety in Chemical Industries	PCC-CE	3	2	0	4	50	30	20	25	25	150
01CR0501	Business Benchmark	HSMC	1	0	0	1	0	0	0	50	50	100
01CH1506	Chemical Engineers & Society-III	PROJ-CE	0	0	2	1	0	0	0	25	25	50
	Total		18	6	6	24	250	150	100	200	200	900

B. Tech. Year III, Sem VI							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01CH0608	Chemical Technology	PCC-CE	3	2	0	4	50	30	20	25	25	150
01CH0602	Chemical Reaction Engineering-I	PCC-CE	4	0	2	5	50	30	20	25	25	150
01CH0603	Process Equipment Design-I	PCC-CE	4	4	0	6	50	30	20	25	25	150
	Open Elective	OEC	3	2	0	4	50	30	20	25	25	150
	Department Elective-I	PEC-CE	3	0	2	4	50	30	20	25	25	150
01CH0609	Chemical Engineers & Society-IV	PROJ-CE	1	0	0	1	0	0	0	25	25	50
	Total		18	8	4	24	250	150	100	150	150	800

Departmental Elective-I

01CH0606	Biochemical Engineering	PEC-CE	3	0	2	4	50	30	20	25	25	150
01CH1604	Unit operations and Processes	PEC-CE	3	0	2	4	50	30	20	25	25	150
Open Elective-I												
01ES0601	Renewable Energy Resources	OEC	3	2	0	4	50	30	20	25	25	150
01CH0605	Environment management in chemical industries	OEC	3	2	0	4	50	30	20	25	25	150

B. Tech. Year IV, Sem VII							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01CH0701	Process Modelling & Simulation	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH0702	Chemical Reaction Engineering-II	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH0703	Process Equipment & Design-II	PCC-CE	4	2	0	5	50	30	20	25	25	150
01CH0704	Plant Design & Project Engineering	PCC-CE	2	0	0	2	50	30	20	25	25	150
	Departmental Elective-II	PEC-CE	3	0	0	3	50	30	20	25	25	150
01CH0705	Project I	PROJ-CE	0	0	8	4	0	0	0	50	50	100
	Total		15	2	12	22	250	150	100	175	175	850

Subject Code	Departmental Elective-II											
01CH0706	Food Technology	PEC-CE	3	0	0	3	50	30	20	25	25	150
01CH0707	Advanced Separation Techniques	PEC-CE	3	0	0	3	50	30	20	25	25	150

B. Tech. Year IV, Sem VIII							Evaluation Scheme					
Subject Code	Subject Name	Type	Teaching Scheme (Hours)			Credits	Theory Marks			Tutorial/ Practical Marks		Total Marks
			Theory	Tutorial	Practical		ESE (E)	IA	CSE	Viva (V)	Term work(TW)	
01CH0801	Optimization in chemical engineering	PCC-CE	3	0	2	4	50	30	20	25	25	150
01CH0802	Transport Phenomena	PCC-CE	3	2	0	4	50	30	20	25	25	150
01CH0803	Petroleum Refining & Petrochemicals	PCC-CE	3	0	2	4	50	30	20	25	25	150
	Departmental Elective-III	PEC-CE	3	0	0	3	50	30	20	25	25	150
01CH0804	Project II	PROJ-CE	0	0	16	8	0	0	0	100	100	200
	Total		12	2	20	23	200	120	80	200	200	800

Subject Code	Departmental Elective-III											
01CH0805	Polymer & Nanotechnology	PEC-CE	3	0	0	3	50	30	20	25	25	150
01CH0806	Fertilizer Technology	PEC-CE	3	0	0	3	50	30	20	25	25	150