

Chemical Technology

Semester III

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Advanced Engineering Mathematics	3	2	0	5	70	30	30	20	150	36
	Organic Chemistry for Technologists	3	0	3	6	70	30	30	20	150	36
	Material & Energy Balance Calculations	3	1	0	4	70	30	30	20	150	36
	Mechanics of Solids	4	0	2	6	70	30	30	20	150	36
	Physical Chemistry	3	0	2	5	70	30	30	20	150	36
	Department Elective-I	4	0	0	4	70	30	0	0	100	36
	Total	20	3	7	30						

Semester IV

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Mathematics-4	3	2	0	5	70	30	30	20	150	36
	Engineering Economics & Management	3	0	0	3	70	30	0	0	100	36
	Unit Processes in Organic Synthesis	3	0	3	6	70	30	30	20	150	36
	Mechanical Operations in Chemical Process Industries	3	1	2	6	70	30	30	20	150	36
	Department Elective-II	4	0	0	4	70	30	0	0	100	36
	Department Elective-III	3	0	3	6	70	30	30	20	150	36
	Total	19	3	8	30						

Semester V

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Applied Physics	3	0	2	5	70	30	30	20	150	36
	Basics of Fluid Flow	3	0	2	5	70	30	30	20	150	36
	Basics of Heat Transfer	3	0	2	5	70	30	30	20	150	36
	Department Elective-IV	3	0	2	5	70	30	30	20	150	36
	Department Elective-V	3	0	2	5	70	30	30	20	150	36
	Institute Elective	3	0	2	5	70	30	30	20	150	36
	Total	18	0	12	30						

Semester VI

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Basics of Mass Transfer	3	0	2	5	70	30	30	20	150	36
	Analytical Techniques	3	0	2	5	70	30	30	20	150	36
	Chemical Thermodynamics & Kinetics	3	1	2	6	70	30	30	20	150	36
	Department Elective-VI	4	0	3	7	70	30	30	20	150	36
	Department Elective-VII	4	0	3	7	70	30	30	20	150	36
	Total	17	1	12	30						

Semester VII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Project & Plant Engineering	3	0	0	3	70	30	0	0	100	36
	Safety & Hygiene in Chemical Industries	3	0	0	3	70	30	0	0	100	36
	Chemical Reaction Engineering	3	1	3	7	70	30	30	20	150	36
	Process Equipment Design & Drawing	3	1	3\$	7	70	30	30	20	150	36
	Department Elective ñ VIII	4	0	0	4	70	30	0	0	100	36
	Project ñ I	0	0	6	6	0	0	100	50	150	36
	Total	16	2	12	30						

\$ Practical includes engineering drawing of various process equipment given in the syllabus

Semester VIII

Subject code	Subject name	Teaching Scheme (Hours)			Credits	Theory Marks		Practical Marks		Total Marks	Branch Code
		Theory	Tutorial	Practical		ESE(E)	PA (M)	Viva (V)	PA(I)		
	Process Intensification and Product Design	3	0	0	3	70	30	0	0	100	36
	Process Instrumentation, Dynamics & Control	3	0	3	6	70	30	30	20	150	36
	Chemical Process Technology	3	0	0	3	70	30	0	0	100	36
	Project ñ II	0	0	14	14	0	0	100	50	150	36
	Department Elective ñ IX	4	0	0	4	70	30	0	0	100	36
	Total	13	0	17	30						

Note: ALA Component, OEP Component and Design Module I, II and III (to be offered in 2nd Year , 3rd year and 4th year respectively) shall be displayed in the final teaching scheme