

SVKM's NMIMS
Mukesh Patel School of Technology Management & Engineering

Course Structure Semester III							
Sr No	Subject	Lectures hours per week	Practicals/ Tutorials hours per week	Examination Scheme		Credits	Remark
				Final Exam	ICE		
1	Process Calculation-I	3	0	70	30	3	
2	Fluid Mechanics-I	3	2	70	30	4	
3	Strength of Material & Fabrication	3	2	70	30	4	
4	Heat Transfer Operations	3	2	70	30	4	
5	Chemical Engineering Thermodynamics	3	2	70	30	4	
6	Principles of Chemical Reactions	3	2	70	30	4	
7	Engineering Mathematics-III	3	2	70	30	4	
		21	12	490	210	27	

Course Structure Semester IV							
Sr No	Subject	Lectures hours per week	Practicals / Tutorials hours per week	Examination Scheme		Credits	Remark
				Final Exam	ICE		
1	Process Calculation-II	3	0	70	30	3	
2	Fluid Mechanics-II	3	0	70	30	3	
3	Mass Transfer Operations-I	3	2	70	30	4	
4	Solid Fluid Mechanical Operations	3	2	70	30	4	
5	Unit Processes in Chemical Industries	3	2	70	30	4	
6	Material Selection	3	0	70	30	3	
7	Process Equipment & Accessories Design	3	2	70	30	4	
		21	8	490	210	25	



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Course Structure Semester IX *							Remark
Sr No	Subject	Lectures hours per week	Practicals / Tutorials hours per week	Examination Scheme		Credits	
				Final exam	ICE		
2	Design Report I	0	6	0	100	2	
		0	6	0	100	2	

Note: *Semester teaching is of 10 weeks.

Course Structure Semester X							Remark
Sr No	Subject	Lectures hours per week	Practicals/ Tutorials hours per week	Examination Scheme		Credits	
				Final exam	ICE		
1	Design Report II	0	4	0	100	2	
		0	4	0	100	2	



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Course Structure Semester V							
Sr No	Subject	Lectures hours per week	Practicals/ Tutorials hours per week	Examination Scheme		Credits	Remark
				Final Exam	ICE		
1	Chemical Processes-I	3	2	70	30	4	
2	Reaction Kinetics	3	2	70	30	4	
3	Mass Transfer Operations-II	3	2	70	30	4	
4	Plant Utilities	3	2	70	30	4	
5	Energy System Designs	3	2	70	30	4	
		15	10	350	150	20	

Course Structure Semester VI							
Sr No	Subject	Lectures hours per week	Practicals/ Tutorials hours per week	Examination Scheme		Credits	Remark
				Final Exam	ICE		
1	Chemical Processes-II	3	2	70	30	4	
2	Chemical Reaction Engineering	3	2	70	30	4	
3	Instrumentation & Process Control	3	2	70	30	4	
4	Process Optimization & simulation	3	2	70	30	4	
5	Industrial Safety	3	2	70	30	4	
		15	10	350	150	20	



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Course Structure Semester VII							
Sr No	Subject	Lectures hours per week	Practicals/ Tutorials hours per week	Examination Scheme		Credits	Remark
				Final Exam	ICE		
1	Environmental Engineering	3	2	70	30	4	
2	TIP 08 Weeks TIP Evaluation & Viva	0	40	0	200	10	
3	Project & Process Engineering	3	2	70	30	4	
		9	46	140	240	22	

Course Structure Semester VIII							
Sr No	Subject	Lectures hours per week	Practicals/ Tutorials hours per week	Examination Scheme		Credits	Remark
				Final Exam	ICE		
1	Economics of Chemical Projects	3	2	70	30	4	
2	Seminar 1	0	2	0	50	1	
3	Technical Elective	3	0	70	30	3	
		9	6	140	110	12	

