

## Petrochemical Engineering Scheme

### Fourth year (VIISemester)

#### A. Theory Papers:

S.No.	Subject Code	Subject	Teaching Hours (Per Week)		Exam Duration (Hours)	Maximum Marks		
			Lecture	Tutorial		Exam	IA	Total
1.	7PC1	Refinery Engineering Design	3	1	3	80	20	100
2.	7PC2	Process Modelling and Simulation	3	1	3	80	20	100
3.	7PC3	Transport Phenomena	3	1	3	80	20	100
4.	7PC4	Pipeline Engineering	3		3	80	20	100
5.	7PC5	Process Dynamics and Control	3		3	80	20	100
6.	7PC6.1 7PC6.2 7PC6.3	Elective <b>Any one of the following</b> 1.Oil and gas field development 2.Multiphase Flow 3. Modern Separation Techniques	3		3	80	20	100
Total			18	3	18	480	120	600

#### B. Practical and Sessional:

S.No.	Subject Code	Subject	Hours (Per Week)	IA	Exam	Maximum Marks
				60%	40%	
1.	7PC7	Process Dynamics and Control	2	60	40	100
2.	7PC8	Pipe Line Design	2	60	40	100
3.	7PC9	Project-I	2	30	20	50
4.	7PC10	Industrial Training	2	60	40	100
5.	7PC11	DECA				50
Total			8	210	140	400

## Fourth Year (VIII Semester)

### A. Theory Papers:

S.No	Subject Code	Subject	Teaching Hours(Per Week)		Exam Duration (Hours)	Maximum Marks		
			Lecture	Tutorial		Exam	IA	Total
1.	8PC1	Natural Gas Engineering	3		3	80	20	100
2.	8PC2	Plant Design and Economics	3	1	3	80	20	100
3.	8PC3	Process Plant Utilities	3		3	80	20	100
4.	8PC4.1 8PC4.2 8PC4.3	Elective 1.Industrial Engineering Management 2. Oil and Gas processing plant Design 3. Optimization of chemical processes	3		3	80	20	100
Total			12	1	12	320	80	400

### B. Practical and Sessional:

S.No.	Subject Code	Subject	Hours(Per Week)	IA	Exam	Maximum Marks
				60%	40%	
1	8PC5	Gas Testing	2	90	60	150
2	8PC6	Process Modelling and Simulation	2	60	40	100
3	8PC7	Project-II	8	120	80	200
4	8PC8	Seminar	2	60	40	100
5	8PC9	DECA				50
Total			14	330	220	600