

APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS

SCHEME : PETROCHEMICAL ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS																
Year/Sem	Course Code	Subject Name	Type	CORE/ELECTIVE	Group	IC	DC	DE	Non-Graded	OC	Dep.Spec.	Minor.Spec.	Max Marks Internal	Max Marks External	Credit /Unit	Programme-Option
1 Sem.	MTL100	Engineering Mathematics-I	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
1 Sem.	CSL100	Programming for Problem Solving	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
1 Sem.	PYL100	Engineering Physics	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
1 Sem.	EEL100	Introduction to Electrical & Electronics Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
1 Sem.	HUN102	Communication Skills	TH	CORE	5	No	No	No	Yes	No			0	0	2	A
1 Sem.	PYP100	Engineering Physics Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
1 Sem.	EEP100	Basic Electrical & Electronics Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP102	Computer Aided Machine Drawing	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
1 Sem.	CEP200	Skill Development Laboratory	PR	CORE	9	Yes	No	No	No	No			50	25	1	A

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1 Sem.	HUN112	Language Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
1 Sem.	SAN101	Induction Program	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
1 Sem.	CSP100	Programing Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
1 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
2 Sem.	MTL101	Engineering Mathematics-II	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
2 Sem.	CSL101	Data Analysis & AI Using Python	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
2 Sem.	CML101	Engineering Chemistry	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
2 Sem.	MEL100	Basic Mechanical Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
2 Sem.	HUN101	Human Values & Professional Ethics	TH	CORE	5	No	No	No	Yes	No			0	0	2	A

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2 Sem.	CMP100	Engineering Chemistry Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP100	Basic Mechanical Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
2 Sem.	CEP102	Computer Aided Engineering Graphics	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP101	Product Realization through Manufacturing	PR	CORE	9	Yes	No	No	No	No			50	25	1	A
2 Sem.	HUN111	Human Values Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
2 Sem.	TPN101	Club activity	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
2 Sem.	CSP101	Python Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
2 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
3 Sem.	MTL204	Advanced Mathematics for Petrochemical Engineering (PCE)	TH	CORE	1	Yes	No	No	No	No			50	100	4	A

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3 Sem.	HUL202	Economics and Financial Management	TH	CORE	2	Yes	No	No	No	No			50	100	3	A
3 Sem.	TPN102	Soft Skill Development -1	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
3 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
3 Sem.	PCL201	Chemical Process Calculations	TH	CORE	5	No	Yes	No	No	No			50	100	4	A
3 Sem.	PCL202	Mechanical Operations	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
3 Sem.	PCL203	Fluid Mechanics	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
3 Sem.	PCL204	Introduction to Petroleum & Petrochemicals	TH	CORE	8	No	Yes	No	No	No			50	100	3	A
3 Sem.	PCP201	Mechanical Operations Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
3 Sem.	PCP202	Fluid Mechanics Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A

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3 Sem.	PCP203	Data Base Management System for Chemical Engineers Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
4 Sem.	CEL 101	Environmental Science	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
4 Sem.	HUL201	General Studies	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
4 Sem.	TPN103	Soft Skill Development -2	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
4 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
4 Sem.	PCL205	Heat Transfer	TH	CORE	5	No	Yes	No	No	No			50	100	4	A
4 Sem.	PCL206	Mass Transfer	TH	CORE	6	No	Yes	No	No	No			50	100	4	A
4 Sem.	PCL208	Material Science and Technology	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
4 Sem.	PCL207	Process Instrumentation	TH	CORE	8	No	Yes	No	No	No			50	100	3	A

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4 Sem.	PCP204	Mass Transfer Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	PCP205	Heat Transfer Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	PCP206	Process Instrumentation Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	PEL209	Unit Operation in Industries	TH	ELECTIVE	12	No	No	No	No	Yes			50	100	3	A
5 Sem.	HUL203	Indian Constitution	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
5 Sem.	PCN201	Seminar-1	PR	CORE	2	No	No	No	Yes	No			0	0	1	A
5 Sem.	PCT301	Industrial training (45 days)	PR	CORE	3	No	No	No	No	No			50	25	2	A
5 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
5 Sem.	PCL301	Separation Process	TH	CORE	5	No	Yes	No	No	No			50	100	3	A

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5 Sem.	PCL303	Applied Thermodynamics	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
5 Sem.	PCL302	Chemical Reaction Engineering-I	TH	CORE	7	No	Yes	No	No	No			50	100	4	A
5 Sem.	PCL304	Chemical Technology	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
5 Sem.	PCL305	Fluidization Engineering	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	3	A
5 Sem.	PEL312	Transportation of Petroleum Products	TH	ELECTIVE	9	No	No	No	No	Yes			50	100	3	A
5 Sem.	PEL313	Modern Separation Techniques	TH	ELECTIVE	9	No	No	No	No	Yes			50	100	3	A
5 Sem.	PCP301	Chemical Reaction Engineering. Lab.	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A
5 Sem.	PCP302	Separation Process Lab.	PR	CORE	11	No	Yes	No	No	No			50	25	1.5	A
5 Sem.	PCP303	Process Computation lab	PR	CORE	12	No	Yes	No	No	No			50	25	1.5	A

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6 Sem.	PCN202	Seminar-2	PR	CORE	1	No	No	No	Yes	No			0	0	1	A
6 Sem.	SAA100	SODECA (Anandam)	PR	CORE	2	No	No	No	No	No			100	0	0.5	A
6 Sem.	PCL306	Chemical Reaction Engineering- II	TH	CORE	3	No	Yes	No	No	No			50	100	4	A
6 Sem.	PCL307	Process Modeling Simulation	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
6 Sem.	PCL308	Process Equipment Design	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
6 Sem.	PCL309	Health Safety & Environment	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
6 Sem.	PCL310	Petroleum Refinery Engineering	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	4	A
6 Sem.	PCL311	Biomass Conversion	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	4	A
6 Sem.	PEL314	Hydrocarbon Engineering	TH	ELECTIVE	8	No	No	No	No	Yes			50	100	4	A

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6 Sem.	PEL315	Unconventional Energy Resources	TH	ELECTIVE	8	No	No	No	No	Yes			50	100	4	A
6 Sem.	PCP304	Process Modeling Simulation Lab.	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
6 Sem.	PCP306	Petroleum Product Testing Lab.	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A
6 Sem.	PCP305	Health Safety and Environment Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1.5	A
7 Sem.	PCD411	Project Part-1	PR	CORE	1	No	Yes	No	No	No			50	25	4	A
7 Sem.	PCT302	Industrial training (60 days)	PR	CORE	2	No	No	No	No	No			50	25	3	A
7 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
7 Sem.	PCL401	Plant Design & Economics	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
7 Sem.	PCL403	Transport Phenomenon	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	4	A

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7 Sem.	PCL404	Polymer Science & Technology	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	4	A
7 Sem.	PCL402	Process Dynamics & Control	TH	CORE	6	No	Yes	No	No	No			50	100	4	A
7 Sem.	PCL405	Refinery Engineering Design	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	4	A
7 Sem.	PCL406	Pipeline Engineering	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	4	A
7 Sem.	PEL409	Introduction to Oil and Gas Engineering	TH	ELECTIVE	8	No	No	No	No	Yes			50	100	4	A
7 Sem.	PCP401	Process Dynamics & Control Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
8 Sem.	HUL204	Innovation & Entrepreneurship	TH	CORE	1	Yes	No	No	No	No			50	100	3	A
8 Sem.	PCD412	Project Part-2	PR	CORE	2	No	Yes	No	No	No			50	25	6	A
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A

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8 Sem.	PCD413	INTERNSHIP	PR	CORE	4	No	Yes	No	No	No			50	25	10	B
8 Sem.	SAA100	SODECA (Anandam)	TH	CORE	5	No	No	No	No	No			100	0	0.5	A
8 Sem.	HUL205	Equivalent MOOC of Innovation & Entrepreneurship	TH	CORE	6	Yes	No	No	No	No			50	100	3	B
8 Sem.	PCL407	Physico chemical treatment	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A
8 Sem.	PCL408	Waste to Energy	TH	ELECTIVE	7	No	No	Yes	No	No			50	100	3	A