

Course	Petroleum Engineering	Code	PE
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Sem- III Sub. code	Title	Hrs. / Week			IA	Exam	Total
		L	T	P			
3PE1	Fundamentals of Mechanical Engg	3		Theory Subjects	20	80	100
3PE2	Basic Petroleum Geology	3			20	80	100
3PE3	Fundamentals of Geophysics	3			20	80	100
3PE4	Drilling Fluids and Cementing Technolog	3	1		20	80	100
3PE5	Drilling Technology-I	3	1		20	80	100
3PE6	Advanced Engg. Mathematics-I	3	1		20	80	100
3PE7	Drilling Fluids and Cementing Lab	Practical laboratory courses		3	60	40	100
3PE8	DBMS Lab		2	60	40	100	
3PE9	Energy and Geopolitics		2	45	30	75	
3PE10	Programming Lab		2	45	30	75	
3PEDC	Discipline & Extra Curricular Activity						50
	Total	18	3	9			1000

Sem- IV Sub. code	Title	Hrs. / Week			IA	Exam	Total
		L	T	P			
4PE1	Advanced Engg Mathematics II	3	1	Theory Subjects	20	80	100
4PE2	Fluid Flow through Porous Media	3	1		20	80	100
4PE3	Reservoir Engg Fundamentals	3	1		20	80	100
4PE4	Surveying	3			20	80	100
4PE5	Petroleum Exploration and Prospecting (3			20	80	100
4PE6	Fundamentals of Well Logging Technolo	3			20	80	100
4PE7	Numerical & Statistical Methods Lab	Practical laboratory courses		2	45	30	75
4PE8	Surveying Lab		3	60	40	100	
4PE9	Petroleum Geology Lab		2	45	30	75	
4PE10	Reservoir Engg Lab		3	60	40	100	
4PEDC	Discipline & Extra Curricular Activity						50
	Total	18	3	10			1000

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Sem- V Sub. code	Title	Hrs. / Week			IA	Exam	Total	
		L	T	P				
5PE1	Renewable Energy Resources	3		Theory Subjects	20	80	100	
5PE2	Health Safety and Environment	3			20	80	100	
5PE3	Petroleum Production Engineering	3			20	80	100	
5PE4	Drilling Technology II	3			20	80	100	
5PE5	Applied Thermodynamics	3	1		20	80	100	
5PE6.1	Unit Operations for Petroleum Industry	3	1		20	80	100	
5PE6.2	Elective 2							
5PE6.3	Elective 3							
5PE7	Petroleum Production Engineering Lab	Practical laboratory courses			3	60	40	100
5PE8	Petroleum Product Testing Lab				3	60	40	100
5PE9	Health Safety and Environment Lab			3	60	40	100	
5PE10	Heat Transfer Lab			2	30	20	50	
5PEDC	Discipline & Extra Curricular Activity						50	
	Total	18	2	11			1000	

Sem- VI Sub. code	Title	Hrs. / Week			IA	Exam	Total	
		L	T	P				
6PE1	Petroleum Production System Design	3	1	Theory Subjects	20	80	100	
6PE2	Artificial Lift Techniques	3			20	80	100	
6PE3	Surface Facilities	3			20	80	100	
6PE4	Workover and Well Stimulation	3	1		20	80	100	
6PE5	Well Test Analysis and EOR	3	1		20	80	100	
6PE6.1	Offshore Structure Design	3			20	80	100	
6PE6.2	Transportation and Marketing of Petroleum							
6PE6.3	Petroleum Refinery Engineering							
6PE7	Mass Transfer Lab	Practical laboratory courses			3	60	40	100
6PE8	Exploration and Prospecting Lab				3	60	40	100
6PE9	Advanced Reservoir Lab			3	60	40	100	
6PE10	Professional Ethics and Human Values			2	30	20	50	
6PEDC	Discipline & Extra Curricular Activity						50	
	Total	18	3	11			1000	

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Sem- VII Sub. code	Title	Hrs. / Week			IA	Exam	Total
		L	T	P			
7PE1	Offshore Drilling and Production Operatic	3		Theory Subjects	20	80	100
7PE2	Reservoir Modelling and Simulation	3			20	80	100
7PE3	Advanced Reservoir Engineering and Ma	3	1		20	80	100
7PE4	Pipeline Engineering	3	1		20	80	100
7PE5	Oil and Gas Field Development	3			20	80	100
7PE6.1	Petrochemical Production Technology	3			20	80	100
7PE6.2	Process Dynamics and Control						
7PE6.3	Petrochemical Engineering-I						
7PE7	Process dynamics and Control Lab	Practical laboratory courses		3	60	40	100
7PE8	Pipeline Design			3	60	40	100
7PETR	Practical Training & Industrial visit			1		100	100
7PEPR	Project-1			1	50		50
7PEDC	Discipline & Extra Curricular Activity						50
	Total	18	2	8			1000

Sem- VIII Sub. code	Title	Hrs. / Week			IA	Exam	Total
		L	T	P			
8PE1	Natural Gas Engineering	3		Theory Subjects	20	80	100
8PE2	Petroleum Economics and Risk analysis	3			20	80	100
8PE3	Unconventional Hydrocarbon Resources	3			20	80	100
8PE4.1	Industrial Engineering Management	3			20	80	100
8PE4.2	Oil and gas Processing Plant Design						
8PE4.3	Petrochemical Engineering-II						
8PE5	Reservoir Simuklation Lab	Practical laboratory courses		2	60	40	100
8PE6	Gas Testing Lab			2	60	40	100
8PE7	Comprehensive Petroleum Engineering			2	30	20	50
8PEPR	Project-II			2	120	80	200
8PESM	Seminar			2	60	40	100
8PEDC	Discipline & Extra Curricular Activity						50
	Total	12	0	10	410	540	1000
	Grand Total						6000