

Annexure II- Mapping of Courses to PLOs.

ngiSe meste No.	Course Code	Course Title	PLOs											
			Engineering Knowledge	Problem Analysis	Design / Development of Solutions	Investigation	Modern Tool Usage	The Engineer & Society	Environment & Sustainability	Ethics	Individual & Team Work	Communication	Project Management	Lifelong Learning
			1	2	3	4	5	6	7	8	9	10	11	12
1.	PE-101	Fundamentals of Petroleum Engineering	X											
	EE-116	Principles of Electrical Engineering												
	CE-105	Engineering Surveying												
	CY-109	Applied Chemistry												
	MT-114	Calculus												
	HS-105/HS-127	Pakistan Studies/Pakistan Studies (for foreigners)												
2.	PE-102	Engineering Geosciences	X			X								
	ME-101	Engineering Mechanics	X	X		X								
	ME-102	Engineering Drawing												
	PH-122	Applied Physics												
	HS-104	English										X		X
3.	MT-221	Linear Algebra & Ordinary Differential Equations												
	PE-202	Petroleum Geology	X			X								
	PE-203	Reservoir Petro physics	X	X			X							
	CE-215	Fluid Mechanics												
	PE-206	Thermodynamics-I	X	X			X							
	HS-205	Islamic Studies						X		X				
4.	PE-205	Computer Programming & Application	X		X		X				X			
	CE-212	Mechanics of Solids												
	CH-207	Fluid Mechanics II	X	X		X								
	PE-207	Drilling Engineering-I	X	X			X							
	MT-331	Probability & Statistics												
5.	PE-302	Reservoir Fluid Properties	X	X			X							
	PE-313	Structural Geology & Geophysical Exploration	X			X		X						X
	PE-306	Subsurface Production Engineering	X	X					X					
	PE-310	Natural Gas Engineering	X	X				X						
	EL-305	Instrumentation & Control												
	HS-304	Business Communication & Ethics								X	X	X		

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6.	PE-312	Drilling Engineering II	X			X	X						X	
	PE-308	Petroleum Production Economics	X	X										X
	PE-304	Reservoir Engineering-I	X		X	X								
	PE-311	Fundamentals of Well Logging	X			X					X			
	MT-442	Numerical Methods												
7.	PE-401	Reservoir Simulation	X	X	X		X				X			
	PE-402	Reservoir Engineering-II	X		X	X								
	PE-408	Well Testing	X		X	X								
	PE-412	Introduction to Unconventional Oil, Gas & Energy Resources	X	X						X				
	PE-411	Project Planning & Management	X								X		X	X
8.	PE-413	Oil and Gas Field Production Facilities	X			X				X				
	PE-414	Water Flooding and Introduction to Enhanced Oil Recovery	X		X	X								
	PE-406	Petroleum Refinery Engineering	X	X			X							
	PE-407	Petroleum Property, Environment & Safety Management						X	X			X	X	
	PE-410	Petroleum Engineering Project	X		X		X			X	X	X	X	X
Total			26	12	07	12	09	04	04	03	06	04	04	05