

Department of Petroleum Engineering

NEP courses for the batch admitted from AY 2024-25

Details of Departmental Compulsary (DC) Courses

Departmental Compulsary (DC) Courses					
S. No.	Course Code	Course Name	L-T-P	Credit	Course Type
1	NPEC501	Advanced Production Technologies	3-1-0	4	Theory
2	NPEC502	Advanced Well Testing	3-1-0	4	Theory
3	NPEC503	Formation Evaluation and Production Logging	3-1-0	4	Theory
4	NPEC504	Reservoir Characterization	0-0-3	1.5	Practical
5	NPEC505	Term paper/Mini Project	0-0-3	1.5	Practical
6	NPEC506	Production Logging Practical	0-0-3	1.5	Practical
7	NPEC507	Petroleum Geomechanics and Hydraulic Fracturing	3-1-0	4	Theory
8	NPEC508	Advanced Drilling Technology	3-1-0	4	Theory
9	NPEC509	Numerical Methods for Petroleum Engineers	3-1-0	4	Theory
10	NPEC510	Petroleum Instrumentation and Measurements	0-0-3	1.5	Practical
11	NPEC511	Working model of oil & gas field operations.	0-0-3	1.5	Practical
12	NPEC512	Advanced Drilling Simulation Lab	0-0-3	1.5	Practical
13	NPEC595	Research Methodology	3-0-0	3	Theory
14	NPEC596	Research Methodology	3-0-0	3	Audit
15	NPEC597	Thesis	0-0-0	20	Non-contact
16	NPEC598	Thesis	0-0-0	20	Non-contact
17	NPEC599	Thesis	0-0-0	20	Audit

Details of Departmental Elective (DE) Courses

Departmental Elective Courses					
S. No.	Course Code	Course Name	L-T-P	Credit	Course Type
1	NPED501	Enhanced Oil and Gas Recovery Methods	3-0-0	3	Theory
2	NPED502	Fluid Flow Through Porous Media	3-0-0	3	Theory
3	NPED503	Introduction to Python and Petroleum Data Analysis	3-0-0	3	Theory
4	NPED504	Unconventional Hydrocarbon Resources	3-0-0	3	Theory
5	NPED505	Carbon Capture, Utilization and Sequestration	3-0-0	3	Theory
6	NPED506	Reservoir Simulation	3-0-0	3	Theory
7	NPED507	Profile Modification and Water Shut-off	3-0-0	3	Theory
8	NPED508	Well Intervention, Workover and Simulation Techniques	3-0-0	3	Theory
9	NPED509	Flow Assurance	3-0-0	3	Theory
10	NPED510	Health, Safety and Environment in Petroleum Industry	3-0-0	3	Theory