

PROGRAM STRUCTURE

I SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
1	172PE1T01	Advanced Numerical Methods & Applied Statistics		✓		Students are able to demonstrate problem solving skills by modelling physical phenomenon using Advanced Numerical Methods and Applied Statistics (MATLAB Based) in various engineering disciplines.
2	172PE1T02	Transportation of Oil & Gas		✓		Students are able to demonstrate technical skill of characterizing different drilling and production methods, modelling and analysis of subsurface exploration.
3	172PE1T03	Advanced EOR Techniques		✓		Students are able to demonstrate technical skill of characterizing different crude oils , modelling and analysis of reservoir for recovery.
4	172PE1T04	Project Management			✓	Students are able to apply the knowledge of Project management enabling them to become an entrepreneur in any domain of their choice
5	172PE1T05	PE Stream: Offshore Drilling		✓		Students are able to demonstrate technical skill of characterizing different crude oils , modelling and analysis of reservoir for recovery.
6	172PE1T06	Non-PE Stream: A. Fundamentals of Petroleum Geology & Reservoir Engineering		✓		Students are able to demonstrate technical skill of characterizing different offshore structures, modelling and analysis of drilling.
7	172PE1T07	PE Stream: Reservoir Stimulation	✓			Students are able to acquire skills related to design, synthesize and evaluate the performance of reservoir rocks enabling them to be employed for designing and evaluation of formation for treatment .
8	172PE1T08	Non-PE Stream: Petroleum Drilling & Production Engineering		✓		Students are able to demonstrate technical skill of characterizing different drilling and production methods, modelling and analysis of subsurface exploration.

9	172PE1L01	Advanced Numerical Methods & Applied Statistics (MATLAB Based) Lab		✓		Students are able to demonstrate problem solving skills by modelling physical phenomenon using Advanced Numerical Methods and Applied Statistics (MATLAB Based) in various engineering disciplines.
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II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
10	172PE2T09	Advanced Natural Gas Engineering				
11	172PE2T10	Artificial Lift Techniques				
12	172PE2T11	Operational Aspects of Well Testing				
13	172PE2T12	Integrated Reservoir Management				
14	172PE2E01	Practical Reservoir Modeling & Simulation		✓		Students are able to demonstrate problem solving skills by modelling physical phenomenon using Practical Reservoir Modelling and Simulation(MATLAB Based) in various engineering disciplines.
15	172PE2E02	Optimization of Oil & Gas Production		✓		Students are able to demonstrate technical skill of characterizing different fluid flow properties , modelling and analysis of production.
16	172PE2E03	Flow Assurance		✓		Students are able to demonstrate technical skill of characterizing different fluid flow properties , modelling and analysis of flow in wells.
17	172PE2E04	Process Safety & Environmental Aspects in Petroleum Industry			✓	Students are able to apply the knowledge of safety management enabling them to become an entrepreneur in any domain of their choice.
18	172PE2E05	Deep Water Technologies		✓		Students are able to demonstrate technical skill of characterizing different technologies , modelling and analysis of Deepwater beds .
19	172PE2E06	Characterization of Petroleum Oils		✓		Students are able to demonstrate technical skill of characterizing different oils , modelling and analysis of treatment .

20	172PE2L02	Reservoir Simulation Lab		✓		-Students are able to acquire skills related to various aspects of different reservoirs enabling them to be employed as Reservoir Engineers.
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III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
21	172PE3C01	Comprehensive Viva-Voce	✓			Students will be able to demonstrate problem identification, analysis, design solutions or applications in petroleum engineering domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
22	172PE3R01	Seminar - I	✓			Students will be able to demonstrate problem identification, analysis, design solutions or applications in petroleum engineering domain through the acquired technical, cognitive, communication and creative skills to address societal needs.

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
23	172PE4R02	Seminar - II	✓			Students will be able to demonstrate problem identification, analysis, design solutions or applications in petroleum engineering domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
24	172PE4R01	Project Work Part- - II	✓			Students will be able to demonstrate problem identification, analysis, design solutions or applications in petroleum engineering domain through the acquired technical, cognitive, communication and creative skills to address societal needs.
		Total	5	13	2	



Program Coordinator



Head of the Department

Head of the Department
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