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. |

II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
10	172PE2T09	Advanced Natural Gas Engineering		✓		Students are able to demonstrate technical skill of characterizing different gas wells , modelling and analysis of fluid behaviours.
11	172PE2T10	Artificial Lift Techniques		✓		Students are able to demonstrate technical skill of characterizing different lift types , modelling and analysis of fluid behaviours in wells.
12	172PE2T11	Operational Aspects of Well Testing		✓		Students are able to demonstrate technical skill of characterizing different lift types , modelling and analysis of fluid behaviours in well testing.
13	172PE2T12	Integrated Reservoir Management		✓		Students are able to demonstrate Competency in the domain of Integrated Reservoir Management enabling them to become an entrepreneur.
14	172PE2E01	Practical Reservoir Modeling & Simulation				
15	172PE2E02	Optimization of Oil & Gas Production				
16	172PE2E03	Flow Assurance				
17	172PE2E04	Process Safety & Environmental Aspects in Petroleum Industry				
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.

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
21	k0801	Summer Internship		✓		Students are able to Analyse and find the solution for Present Problems in industry or a particular company

IV SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
22	10801	Presentation of Summer Internship Report		✓		Students are able to Analyse and find the solution for Present Problems in industry or a particular company
23	10802	Seminar on Advanced Topics in Petroleum Engineering		✓		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	1	17	1	

Program Coordinator

Head of the Department

Head of the Department
Department of Petroleum Technology
Aditya Engineering College (A)
SURAMPALEM-5   437