PROGRAM STRUCTURE

I SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
1	192PE1T01	Offshore Drilling.		1		Students are able to demonstrate technical skill of characterizing different crude oils, modelling and analysis of reservoir for recovery.
2	192PE1T02	Fundamentals of Petroleum Geology and Reservoir Engineering. (NON- PE stream)		√		Students are able to demonstrate technical skill of characterizing different offshore structures, modelling and analysis of drilling.
3	192PE1T03	Reservoir Stimulation (PE stream)	*		e e	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.
4	192PE1T04	Petroleum Well Drilling and Production Engineering. (NON-PE stream)		•		Students are able to demonstrate technical skill of characterizing different drilling and production methods, modelling and analysis of subsurface exploration.
5	192PE1E01	Advanced Numerical Methods and 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.
6	192PE1E02	CBM and Shale Gas Engineering			*	Students are able to acquire skills related to design, synthesize and evaluate the performance of CBM and shale wells enabling them to be employed for designing and evaluation well for methane and oil extraction.
7	192PE1E03	Transportation of Oil and Gas		✓		Students are able to demonstrate technical skill of characterizing different crude oils, modelling and analysis of reservoir for recovery.
8	192PE1E04	Advanced Well Logging Techniques		✓		Students are able to demonstrate technical skill of characterizing different lift types, modelling and analysis of fluid behaviours in well testing.

		and Well Testing Analysis				
9	192HS1T01	Research Methodology and IPR		<i>√</i>	Students can gain knowledge about the method comparison and experiment along with different rights	
10	192PE1L01	Advanced Numerical Methods and		*	Students are able to demonstrate technical ski wells , modelling and analysis of fluid behave	
11	192PE1L02	Drilling Simulation Laboratory	~		Students are able to learn the concepts of different analyse them by using software	erent drilling properties and

II SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
12	192PE2T05	Artificial Lift Techniques		~		Students are able to demonstrate technical skill of characterizing different lift types, modelling and analysis of fluid behaviours in wells.
13	192PE2T06	Reservoir Modeling and Simulation		1		Students are able to demonstrate problem solving skills by modelling physical phenomenon using Practical Reservoir Modelling and Simulation (MATLAB Based) in various engineering disciplines.
14	192PE2E05	Advanced EOR Techniques				
15	192PE2E06	Advanced Well Completions				
16	192PE2E07	Flow Assurance				
17	192PE2E08	Advanced Horizontal Well Technology	ie.			
18	192PE2L03	Reservoir Simulation Laboratory	1	~		Students are able to acquire skills related to various aspects of different reservoirs enabling them to be employed as Reservoir Engineers.
19	192PE2L04	Flow Assurance Laboratory		·		Students are able to demonstrate technical skill of characterizing different fluid flow properties, modelling and analysis of flow in wells.
20	192PE2P01	Mini Project with Seminar	~			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.
21	192MC1A01/ 192MC2A01	English for Research Paper Writing		~		Students are able to demonstrate communication writing skills to express fluently in writing form of language which is very much essential for the career growth in research

22	192MC1A02/ 192MC2A02	Disaster Management		
23	192MC1A03/	Sanskrit for		
23	192MC2A03	Technical Knowledge		
24	192MC1A04/ 192MC2A04	Value Education		
25	192MC1A05/ 192MC2A05	Constitution of India		
26	192MC1A06/ 192MC2A06	Pedagogy Studies		
27	192MC1A07/	Stress Management		
21	192MC2A07	by Yoga		
28	192MC1A08/ 192MC2A08	Personality Development through Life Enlightenment Skills		
29	192MC1A09/ 192MC2A09	Soft Skills	✓	Students are able to demonstrate Business Communication skills to analze the mistakes in Body language ,formal written communication in the organizations.

III SEMESTER

S. No	Course Code	Name of the Course	Employability	Skill Development	Entrepreneurship	Remarks
30	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.
31	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
32	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.
33	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		8	14	1	

Program Coordinator

Head of the Department

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