



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Kakinada-533003, Andhra Pradesh (India)

Program wise Curriculum Analysis of (R19)

Program Code	Program Name	No of Courses having focus on			Total Courses	Percentage
		Employability	Entrepreneurship	Skill development		
	M.Tech – PETROLEUM ENGG.	4	3	7	15	55%

Nh
Coordinator

JRA
HOD/Director
Head

Dept. of Petroleum Engineering &
Petrochemical Engineering, UCEK (A)
J.N.T.University Kakinada
Kakinada - 533 003 A.P India

Sudhakar
REGISTRAR
J.N.T. University Kakinada
Kakinada-533003



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis (R19)

Program Code: 33

Program Name: M.Tech- PETROLEUM ENGG

Year: 1

Semester: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Core-1	1. Offshore Drilling. (PE stream) 2. A Fundamentals Of Petroleum Geology and Reservoir Engineering. (NON- PE stream)			
Core-2	1. Reservoir Stimulation (PE stream) Petroleum well Drilling and Production Engineering. (NON- PE stream)	YES		
Elective-1	1. Advanced Numerical Methods and Applied Statistics. CBM & Shale gas engineering.			
Elective-2	1. Transportation of Oil and Gas Advanced Well Logging techniques & Well Testing Analysis.		YES	
Core	Research Methodology and IPR.			
Lab-1	Advanced Numerical Methods and Applied Statistics Laboratory (MATLAB Based)			Yes
Lab-2	Drilling Simulation Laboratory.			Yes
Audit -1	Project Management.			
	Total	1	1	2



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Program Code: 33

Program Name: M.Tech - PETROLEUM ENGG

Year: 1

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Core-3	Artificial Lift Techniques.	Yes		
Core-4	Reservoir Modeling & Simulation.			
Elective-3	1. Advanced EOR Techniques. Advanced well completions.			
Elective-4	1. Flow Assurance. Advanced horizontal well technology.	Yes		
Lab-3	Reservoir Simulation Laboratory.			Yes
Lab-4	Flow Assurance Laboratory.			Yes
AUDIT 2	Integrated Reservoir Management.			YES
	Internship in Petroleum industry and presentations. #			
	Total	2		2



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Course wise Curriculum Analysis (R19)

Program Code: 33

Program Name: M.Tech - PETROLEUM ENGG

Year: 2

Semester: 3

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Elective-V	MOOCs- I†	Yes		
Open Elective	MOOCs – II†		Yes	
Dissertation	In - house Project / external (Industrial /other academia) with dissertation.			Yes
	Total	1	1	1



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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis (R19)

Program Code: 33

Program Name: M.Tech - PETROLEUM ENGG

Year: 2

Semester: 4

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
Dissertation	In - house Project / external (Industrial /other academia) with dissertation. (Continued from III semester)	YES	YES	Yes
		1	1	1


Coordinator

Chairman, Board of Studies

Dept. of Petroleum Engineering &
Petrochemical Engineering, UCEK (A)
J.N.T. University Kakinada
Kakinada - 533 003 A.P. India