



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		
	B.Tech – Petroleum engg.	02	03	35	85	47%

NK
Coordinator

IR
HOD/Director

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

[Signature]
REGISTRAR
J.N.T. University Kakinada
Kakinada-533003



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Kakinada-533003, Andhra Pradesh (India)

Course wise Curriculum Analysis (R19)

Program Code:

Program Name: B.Tech – Petroleum engg.

Year: 2

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
ES	Elements of Mechanical Engineering			
PCC	Process Heat Transfer			
ES	Materials Science & Engineering			
PCC	Petroleum Exploration			
PCC	Thermodynamics for Petroleum Engineers			
PCC	Instrumentation, Process Dynamics & Control			
PCC	Process Heat Transfer Lab			YES
PCC	Instrumentation, Process Dynamics & Control Lab			YES
HSSMS	Socially Relevant Projects			YES
*MC	Physical Fitness Activities			
	MOOCS (NPTEL/SWAYAM) for Honors/Minor Degree			YES
	Total	0	0	04



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Course wise Curriculum Analysis (R19)

Program Code:

Program Name: B.Tech – Petroleum engg.

Year: 3

Semester: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PCC	Well Logging & Formation Evaluation			
PCC	Drilling & Well Completions			
PCC	Petroleum Reservoir Engineering – I			
PCC	Petroleum Production Engineering			
PEC	PROFESSIONAL ELECTIVE – I			
	i. CBM Reservoir Engineering			
	ii. Equation of State and PVT Analysis			
PCC	Mathematical methods for petroleum engineers - Laboratory			Yes
PCC	Drilling Fluids - Laboratory			Yes
PCC	Drilling Simulation - Laboratory			YES
PCC	Socially Relevant Project for Petroleum Engineers			YES
*MC	Physical Fitness Activities			
PT	Industrial Visits (Local & Outside)			YES
MOOCS (NPTEL/SWAYAM) for Honors/Minor Degree				
	Total	0	0	05



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Course wise Curriculum Analysis (R19)

Program Code:

Program Name: B.Tech – Petroleum engg.

Year: 4

Semester: 1

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PCC	HSE in Petroleum Industry			
PCC	Design and Operation of Surface Facilities		YES	
PEC	PROFESSIONAL ELECTIVE – IV i. Enhanced Oil Recovery Techniques. Advanced Well Completion Engineering.			
PEE	PROFESSIONAL ELECTIVE – V i. Subsea Engineering. Petroleum Economics, Policies and Regulations.			
OEC	OPEN ELECTIVE – II (for other branches) i. Corrosion Control in Petroleum Industry. Unconventional Hydrocarbon Resources.			
PCC	Petroleum Equipment Design & Simulation – Laboratory			Yes
PCC	Petroleum Reservoir Simulation - Laboratory			Yes
PR	Presentation/Seminar (SIP Report)			YES
PR	Project work - Phase I			YES
*MC	Professional Ethics And Human values			
*MC	Employability Skills – II: Data Sciences	01		
	MOOCS (NPTEL/SWAYAM) for Honors /Minor Degree			YES
	Total	01	01	05



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Course wise Curriculum Analysis (R19)

Program Code:

Program Name: B.Tech – Petroleum engg.

Year: 4

Semester: 2

Course code	Course name	Employability (Yes/No)	Entrepreneurship (Yes/No)	Skill development (Yes/No)
PEC	PROFESSIONAL ELECTIVE – VI i. Offshore Deep water Drilling and Production Pipeline Engineering			
PEC	PROFESSIONAL ELECTIVE – VII i. Applied Mathematics in Reservoir Engineering Advances in Seismic Exploration			
OEC	OPEN ELECTIVE – III (for Petroleum Engineering) i. NPTEL-Data Analysis & Decision making ii. NPTEL- E-Business NPTEL- Innovation, Business Models & Entrepreneurship		YES	YES
PR	Project Work - Phase 2			YES
*MC	Physical Fitness Activities			YES
MOOCS (NPTEL/SWAYAM) for Honors /Minor Degree				
	Total		01	03

