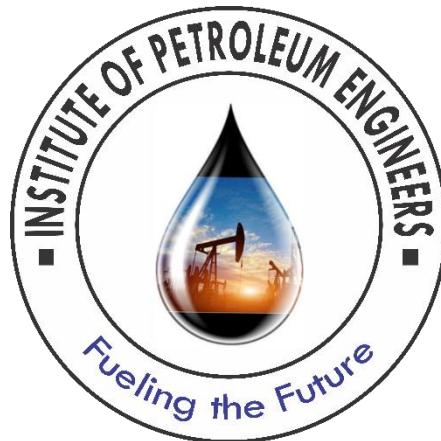


INSTITUTE OF PETROLEUM ENGINEERS, DEHRADUN



DRILLING ENGINEERING

RESOURCES

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FACULTY

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GATE AIR – 4

TOPIC (BILINGUAL)	LECTURE
Drilling Engineering and About Course	1
Well Planning & Drilling Methods	2
Rig Components	3
Rig Component	4
Drilling rig	5
Hoisting system	6
Drilling rig	7
Drilling Rig	8
Drilling well control	9
wet and dry pull (theory+example+questions)	10
Drilling Fluid	11
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Drilling Fluid-04	14
Drilling Fluid - 05	15
Drilling Fluid 6	16
Drilling fluid	17
Cementing - 1	18
Cementing - 2	19
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Cementing - 4	21
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Cementing - 06	23
Drillstring Design - 01	24
Drill String Design - 02	25
Drillstring Design - 03	26
Casing Design	27
Drilling Bit	28
Directional Drilling -1	29
Drilling Examples Lecture 1 and 2	30

APPLIED DRILLING ENGG.	31
HERRIOT WATT DRILLING	32
NEALS ADAM-DRILLING	33
Drilling DPP - 2 with solutions	34
Casing Design Notes	35
Drilling Bit Notes	36
Directional Drilling 2	37
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well control dpp	47
Well Bore Curvature Well control Kick Tolerance	48
Well Control topic by Raunak Sir	49
Raunak Sir Kick and Blow out	50
Raunak Sir Shut in Methods	51
Raunak Sir Well Killing Drillers method	52
Wait & weight method Non-circulating killing methods Kill sheet Shoe pressure	53

LECTURES DETAILS (ENGLISH)

1	Drilling well planning
2	Formation Pressure Part 1
3	Formation Pressure Part 2
4	Formation Pressure Part 3
5	Formation pressure PART 4
6	Pressure distribution in a reservoir
7	Overview of Drilling Rigs
8	Drilling Rig (Power System)
9	Hoisting System-PART-1
10	Hoisting system -Part-2
11	Drill Rig systems' numericals
12	Rotary System
13	Circulating system
14	Circulating system part 2
15	Circulating system numericals
16	Quiz 3 Discussion Numericals
17	Quiz 3 and DPP discussion
18	drilling rig: well control system
19	well monitoring & dry pull-wet pull
20	drilling fluids part1
21	drilling fluid-Additives
22	drilling fluid-dignostic test
23	viscosity basics and numericals

24	Type of flow Drilling Fluid
25	drilling fluids: non - newtonian fluid models and rheological properties
26	drilling fluids: marsh funnel & rotational viscometer
27	drilling fluids: PH determination & Filter press
28	drilling fluids: numerical, mud retort & CEC test
29	DRILLING FLUIDS: CONCENTRATION
30	TYPES OF DRILLING FLUIDS: WBM
31	TYPES OF DRILLING FLUID: OBM & GBM
32	Drilling fluids: solids control equipments
33	Drilling fluids: numerical
34	Cementing: Introduction
35	Cementing : cementing tests
36	Cementing: Classes, Types & additives
37	Cementing: cementing equipments
38	Single stage, multi stage and other operations
39	Cementing calculations
40	Cementing calculations
41	Plug cementing
42	Squeeze cementing and CET
43	Drill bit-1
44	Drill bit-2
45	Bit optimisation
46	Drillstring design-1
47	Drillstring design-2
48	Drillstring design-3
49	Casing design-1
50	Casing design-2
51	directional drilling - introduction

52	DD: types of well profile and BHA
53	DD: TYPE -1 basics
54	DD: numericals
55	DD: basic concepts and derivations
56	DD: deflection tools and surveying
57	DD: Horizontal wells (basics and numericals)
58	Casing Design Theory+Examples+Practice Questiona
59	Solution of Casing Design practice question
60	Drilling Exercise (Kick)
61	Hole problem-1
62	Hole problem 2
63	Hole problem 3
64	hole problem-4
65	well control -1
66	well control-2
67	well control 5: kick tolerance
68	well control 6: numericals
69	Quiz 4 discussion
70	Quiz 4 Discussion Part 2
71	dogleg & casing design numerical
72	well control-3
73	well control-4

NOTE:

1.MORE LECTURES WILL BE UPLOADED AS PER THE NEED OF THE STUDENTS OR CHANGES IN SYLLABUS.

2.MORE NUMERICAL DISCUSSION LECTURES WILL BE UPLOADED REGULARLY.