

Discipline: Drilling Engineering	Semester: 5TH Semester	Name of the Teaching Faculty: Er. Brushabhanu Sahoo	
Subject(Lab): MUD & CEMENT TECHNOLOGY LAB	No. of Periods / week: 04	Session: Winter 2022 No of weeks: 15 Semester from date- 15.09.2022 to date- 22.12.2022	
Subject Code: PR3			
Week	Class Day	Lab	Remarks
1 st	1 st	Study and sketching of simplex reciprocating pump.	
	2 nd	Study and sketching of simplex reciprocating pump.	
	3 rd	Study and sketching of simplex reciprocating pump.	
	4 th	Study and sketching of simplex reciprocating pump.	
2 nd	1 st	Study and sketching of duplex reciprocating pump.	
	2 nd	Study and sketching of duplex reciprocating pump.	
	3 rd	Study and sketching of duplex reciprocating pump.	
	4 th	Study and sketching of duplex reciprocating pump.	
3 rd	1 st	Study and sketching of triplex reciprocating pump.	
	2 nd	Study and sketching of triplex reciprocating pump.	
	3 rd	Study and sketching of triplex reciprocating pump.	
	4 th	Study and sketching of triplex reciprocating pump.	
4 th	1 st	Study and sketching of centrifugal pump.	
	2 nd	Study and sketching of centrifugal pump.	
	3 rd	Study and sketching of centrifugal pump.	
	4 th	Study and sketching of centrifugal pump.	
5 th	1 st	Determination of density of drilling fluid by using Mud balance.	
	2 nd	Determination of density of drilling fluid by using Mud balance.	
	3 rd	Determination of density of drilling fluid by using Mud balance.	
	4 th	Determination of density of drilling fluid by using Mud balance.	
6 th	1 st	Determination of viscosity of drilling fluid by using Marsh funnel.	
	2 nd	Determination of viscosity of drilling fluid by using Marsh funnel.	
	3 rd	Determination of viscosity of drilling fluid by using Marsh funnel.	
	4 th	Determination of viscosity of drilling fluid by using Marsh funnel.	
7 th	1 st	Determination of gel strength of drilling fluid by using Fann V-G meter.	
	2 nd	Determination of gel strength of drilling fluid by using Fann V-G meter.	
	3 rd	Determination of gel strength of drilling fluid by using Fann V-G meter.	
	4 th	Determination of gel strength of drilling fluid by using Fann V-G meter.	
8 th	1 st	Determination of filtration loss by using Standard filter press.	
	2 nd	Determination of filtration loss by using Standard filter press.	
	3 rd	Determination of filtration loss by using Standard filter press.	
	4 th	Determination of filtration loss by using Standard filter press.	
9 th	1 st	Determination of sand content of drilling fluid by using Sand content testing kit.	
	2 nd	Determination of sand content of drilling fluid by using Sand content testing kit.	
	3 rd	Determination of sand content of drilling fluid by using Sand content testing kit.	
	4 th	Determination of sand content of drilling fluid by using Sand content testing kit.	
10 th	1 st	Determination of pH value of drilling fluid by using pH meter.	
	2 nd	Determination of pH value of drilling fluid by using pH meter.	
	3 rd	Determination of pH value of drilling fluid by using pH meter.	
	4 th	Determination of pH value of drilling fluid by using pH meter.	
11 th	1 st	Study and sketching of cementing plugs.	
	2 nd	Study and sketching of cementing plugs.	

	3 rd	Study and sketching of cementing plugs.	
	4 th	Study and sketching of cementing plugs.	
12 th	1 st	Study and sketching of wall scratchers.	
	2 nd	Study and sketching of wall scratchers.	
	3 rd	Study and sketching of wall scratchers.	
	4 th	Study and sketching of wall scratchers.	
13 th	1 st	Study and sketching of casing centralizers.	
	2 nd	Study and sketching of casing centralizers.	
	3 rd	Study and sketching of casing centralizers.	
	4 th	Study and sketching of casing centralizers.	
14 th	1 st	Study and sketching of guide shoe and float collar.	
	2 nd	Study and sketching of guide shoe and float collar.	
	3 rd	Study and sketching of guide shoe and float collar.	
	4 th	Study and sketching of guide shoe and float collar.	
15 th	1 st	Study and sketching of cement mixture from cut section.	
	2 nd	Study and sketching of cement mixture from cut section.	
	3 rd	Study and sketching of cement mixture from cut section.	
	4 th	Study and sketching of cement mixture from cut section.	

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14/09/22
Lecturer (Drilling)
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