

Department of Drilling Engineering

SUMMER 2023, Fluid Mechanics and Hydraulic Machines Lab Lesson Plan

Branch: DRILLING ENGINEERING					Faculty:- Tapas Sutar				
Subject: FMHM LAB/ Pr.1				No of periods: 4 Periods/week		Total Period: 44 Total week: 15		End Sem exam: 25 Sessional assesment: 25	
Scheduled Session: From 14.02.2023 to 23.05.2023									
Month	Week	Date	Period	Topics to be covered				Remarks	
February	3rd	17.02.2023	2P		Briefing of Syllabus & Introduction to FMHM Lab				
	4th	24.02.2023	2P	1	Measurement of pressure by using various pressure gauges				
		25.02.2023	2P		Measurement of pressure by using various pressure gauges				
M a r c h	1st	03.03.2023	2P	2	Verification of Bernoulli's theorem by Bernoulli's verification apparatus				
		04.03.2023	2P		Verification of Bernoulli's theorem by Bernoulli's verification apparatus				
	2nd	10.03.2023	2P	3	Determination of discharge through venturimeter				
		11.03.202	2P		Determination of discharge through venturimeter				
	3rd	17.03.202	2P	4	Find out orifice coefficient by orifice tank set up				
		18.03.2023	2P		Find out orifice coefficient by orifice tank set up				
	4th	24.03.2023	2P	5	Determination of head loss due to friction for different pipes by pipe flow				
		25.03.2023	2P		Determination of head loss due to friction for different pipes by pipe flow				
	5th	31.03.2023	2P	6	Study and sketching of hydraulic press				
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A p r i l	2nd	08.04.2023	2P		Study and sketching of hydraulic ram				
	3rd	15.04.2023	2P	7	Study and sketching of hydraulic ram				
	4th	Tentative Internal Assesment as per SCTE&VT Guidelines							
		21.04.2023	2P	7	Study and sketching of hydraulic ram				
		22.04.2023	2P	8	Study and sketching of hydraulic accumulator				
	28.04.2023	2P	Study and sketching of hydraulic accumulator						
M a y	1st	06.05.2023	2P	9	Study and sketching of hydraulic lift				
		12.05.2023	2P		Study and sketching of hydraulic lift				
	2nd	13.05.2023	2P		CLASS TEST				
		20.05.2023	2P		CLASS TEST				

Prepared by:- Tapas Sutar

Lect, Drill

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