II B. Tech – II Semester

(20ME4104) FLUID MECHANICS & HYDRAULIC MACHINERY LAB

Int. Marks Ext. Marks Total Marks L T										
15	35	50			-	-	3	1.5		
Pre-Ree Course	Pre-Requisites: Fluid mechanics Course Objective:									
To flowTo in	 To impart practical exposure on the performance evaluation methods of varior flow measuring equipment. To impart practical knowledge on the evaluation of hydraulic turbines and pumps. 									
Note: A	ny 10 Experime	nts from the below								
1. Impa	act of jets on Var	es.								
2. Perf	2. Performance Test on Pelton Wheel.									
3. Perf	3. Performance Test on Francis Turbine.									
4. Perf	4. Performance Test on Kaplan Turbine.									
5. Performance Test on Single Stage Centrifugal Pump.										
6. Performance Test on Multi Stage Centrifugal Pump.										
7. Performance Test on Reciprocating Pump.										
8. Calibration of Venturi meter.										
9. Calibration of Orifice meter.										
10. Determination of friction factor for a given pipe line.										
11. Dete	ermination of loss	of head due to sudden co	ntraction in a pip	peline.						
12. Turt	oine flow meter.									
Course A studer	Outcomes: nt who successful	ly fulfills this course requ	irement will be a	able to:						
S. No		Course (Jutcome				BTI	_		
C01	Calibrate flow measuring devices such as Venturimeter and orifice meter						L4			

CO2	Determine friction factor in pipes						
CO3	Determine minor losses in the pipes.						
CO4	Understand the performance of hydraulic turbine and pumps under different working conditions.	L4					

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Correlation of Cos with POs & PSOs:														
со	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	0	1	1	1	1	0	0	2	2	3	2	2
CO2	2	2	0	1	1	1	1	0	0	2	2	3	2	2
CO3	2	2	0	1	1	1	1	0	0	2	2	3	3	2
CO4	2	2	0	1	1	1	1	0	0	2	2	3	3	2