## **II Year-II Semester** (20CE4106) Hydraulics & Hydraulic Machines Lab

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Int. Ma	rks Ext. Marks	Total Mark	S			]	L	Т	Р	С
30	70	100				-	•	-	3	1.5
Pre- Re	quisites: Fundam	entals of En	gineering Me	echanics& F	luid mechanic	5				
	Experiments									
	bration of Ventur									
	bration of Orifice ermination of Coe		scharge for a	emall orifica	by a constant h	and math	nod	1		
	bration of contrac					ieau illeu	100			
	ermination of Coe	0		0						
	ermination of Coe									
7. Ver	ification of Berno	ulli's equation	on.							
	1									
	9. Performance test on Pelton wheel turbine									
	10. Performance test on Francis turbine.									
	Efficiency test on centrifugal pump.									
12. EIII	ciency test on rec	procating pt	imp.							
List of l	Equipment:									
	turi meter setup.									
	fice meter setup.									
	all orifice setup.									
	ernal mouthpiece	-	4							
	tangular and Trian tion factor test set		setups.							
	noulli's theorem s	-								
	act of jets.	ciup.								
1	<ol> <li>Hydraulic jump test setup.</li> </ol>									
10. Pelton wheel and Francis turbines.										
11. Centrifugal pump setup										
12. Reciprocating pumps set up										
Course Outcomes:										
S.No			Course C	Outcomes					B	ГL
1	Determine the discharge of flow through venture meter and orifice meter, loss of								L	.4
1	head due to sudden contraction and friction in pipe and verify bernoulli's equation									
2	Determine Cd for a small orifice by constant Head method L4							4		
3	Determine discharge of flow using V notch and Rectangular notch L4								.4	

L4

Correlation of COs with POs& PSOs:															
со	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	3	2	2	-	2	1	2	1	1	2	1	-	2
2	3	3	3	2	2	-	2	1	2	1	1	2	1	-	2
3	3	3	3	2	2	-	2	1	2	1	1	2	1	-	2
4	3	3	3	2	2	-	2	1	2	1	1	2	1	-	2
5	3	3	3	2	2	-	2	1	2	1	1	2	1	-	2