

Name of Faculty : AMIT
 Discipline : Mechanical
 Sem. : 4th
 Subject : H.H.M

Week	Theory		Practical	
	Lecture day	Topic	Practical Day	Topic
1	1 2 3	<ul style="list-style-type: none"> Fluid, Types of fluid Properties - mass density, weight density, specific volume, viscosity Rest of properties 	1	Measurement of Pressure by:- i) Piezometer tube ii) Single & double column manometer
2	1 2 3	<ul style="list-style-type: none"> Concept of Pressure, Pascal law static Pressure Pressure measuring devices — do — 		To find out the value of C_d for a venturimeter
3	1 2 3	<ul style="list-style-type: none"> Simple problems Pressure Gauges Revision of Unit 		Measurement of flow by using venturimeter.
4	1 2 3	<ul style="list-style-type: none"> Types of fluid flow Rate of flow, Continuity eqⁿ Bernoulli's theorem, Problems 		Verification of Bernoulli's Theorem
5	1 2 3	<ul style="list-style-type: none"> Applications of Bernoulli's Theorem Discharge measurement with venturimeter orifice meter 		To find coefficient of friction Darcy's friction
6	1 2 3	<ul style="list-style-type: none"> Pitot tube, limitations, Problems. Definitions for pipe flow Chezy's eqⁿ & Darcy eqⁿ 		To study hydraulic circuit of an automobile brake & hydraulic Ram
7	1 2 3	<ul style="list-style-type: none"> Reynold's no. & effect, Siphon Nozzle & related terms water hammer, anchor block, siphon, surge tank 		Study the working of Pelton wheel & Francis Turbine
8	1 2 3	<ul style="list-style-type: none"> Minor head losses C_c, C_v, C_d, Flow through different orifices 		Study of Centrifugal pump

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9.	1 2 3	<ul style="list-style-type: none"> Time for emptying a tank Simple Problems Introduction to Hydraulic m/c's 		Repeat 1 st , 2 nd Practical
10.	1 2 3	<ul style="list-style-type: none"> Hydraulic Ram, Jack Hydraulic Brake, Accumulator Door closer, Press 		Repeat 3 rd practical
11.	1 2 3	<ul style="list-style-type: none"> Selection of specimen for diff. applications. Concept of Turbine Impulse and Reaction Turbine 		Repeat 4 th Practical
12.	1 2 3	<ul style="list-style-type: none"> Diff. b/w Turbines Const. & working of Pelton wheel Francis Turbine 		Repeat 5 th Practical
13.	1 2 3	<ul style="list-style-type: none"> Propeller & Kaplan Turbine Selection of Turbine Concept of hydraulic Pump 		Repeat 6 th Practical
14.	1 2 3	<ul style="list-style-type: none"> Single acting Reciprocating Pump Vane, screw & gear pumps Centrifugal Pump 		Repeat 7 th Practical
15.	1 2	<ul style="list-style-type: none"> Performance, efficiencies & specifications of a centrifugal pump. Troubleshooting & Problems Remedies. Pitting, cavitation, Priming 		Repeat 8 th Practical