

GOVERNMENT POLYTECHNIC JAIPUR

LESSON PLAN

PR-3 FLUID MECHANICS & FLUID POWER LAB (MEPC215)

W	Month	Experi	Main Topic	Activity 1	Activity 2	H	Remarks
1	July	1	Bernoulli's Theorem	Set up Bernoulli apparatus	Verify theorem and record observations	4	
2	July	2	Venturimeter	Measure discharge through venturimeter	Calculate coefficient of discharge (Cd)	4	
3	July	3	Orifice Meter	Determine Cd, Cc and Cv	Perform calculations and plot results	4	Class Test-I
4	August	4	Pipe Friction	Measure head loss in pipes	Calculate coefficient of friction	4	
5	August	5	Impact of Jet	Determine force on vane	Compare theoretical and experimental values	4	Internal Assessment-I
6	August	6	Minor Losses	Measure losses in bends, valves and fittings	Evaluate loss coefficients	4	
7	September	7	Pressure Gauge Calibration	Use dead weight pressure gauge tester	Prepare calibration chart	4	
8	September	8	Centrifugal Pump	Measure discharge, head and power	Determine overall efficiency	4	Class Test-II
9	October	9	Reciprocating Pump	Study construction and operation	Determine overall efficiency	4	
10	October	10	Hydraulic Turbine	Pelton/Francis/Kaplan performance test	Calculate turbine efficiency	4	
11	October	11	Hydraulic Trainer	Construct basic hydraulic circuits	Observe actuator operation	4	Internal Assessment-II
12	November	12	Pneumatic Trainer	Construct pneumatic circuits	Study directional control valves	4	
13	November	Practice	Data Analysis	Tabulate observations	Prepare graphs and calculations	4	
14	November	Practice	Record Submission	Complete practical records	Viva preparation	4	
15	November	Final Practical	Comprehensive Experiment	Revision and course completion		4	

To160

Course Teacher

Sanjay Sarangi

HOD

