Pressure regulation valves	2nd	
CLASS TEST-2	1st	2nd (Nov-2022)
Pressure control valves, Pressure relief valves	4th	
Elements –filter-regulator-lubrication unit	3rd	
Numericals	2nd	
State positive & negative slip & establish relation between slip & coefficient of discharge.	1st	1st (Nov-2022)
Describe construction & working of double acting reciprocating pump.	4th	
Describe construction & working of single acting reciprocating pump	3rd	
Numericals	2nd	
Numericals	1st	4th (Oct-2022)
work done and derivation of various efficiencies of centrifugal pumps.	4th	
Construction and working principle of centrifugal pumps	3rd	
Distinguish between impulse turbine and reaction turbine.	2nd	
Numericals	1st	3rd (Oct-2022)
Velocity diagram of moving blades of kaplan turbine	4th	
Numericals	3rd	
Velocity diagram of moving blades of Francis Turbine	2nd	
CLASS TEST-1	1st	2nd (Oct-2022)
Construction and working principle of Reaction turbine	4th	
numericals	3rd	
Numericals	2nd	
work done and derivation of various efficiencies	1st	4th(sep-2022)
Velocity diagram of moving blades of pelton wheel	4th	
Construction and working principle of impulse turbine	3rd	
classification of hydraulic turbines	2nd	
Definition hydraulic turbines	1st	3rd(sep-2022)
Theory	Class day	Weeks
	Alloted :4	Fluid Power
Semester From Date: 15th sep 2022 To Date: 22nd dec 2022	weeks Class	Machines &Industrial
	No.of days/Per	Subject:Hydraulic
		engineering
Name of the Teachnig Faculty : Miss BHAGYASHREE PATRA	Semester: §th	:mechanical
		Discipline
HMIFP LESSION PLAN		

Operation of double acting cylinder with metering in and metering out control	4th	
Operation of double acting cylinder	3rd	
Direct control of single acting cylinder	2nd	
Actuators	022) 1st	4th (Dec-2022)
Vane pump,Radial piston pumps	4th	
External gear pumps, internal gear pumps	3rd	
Fluid power pumps	2nd	
Throttle valves	022) 1st	3rd (Dec-2022)
Flow control valves	4th	
3/2DCV,5/2 DCV,5/3DCV	3rd	
Pressure relief valves, Pressure regulation valves	2nd	
Pressure control valves	022) 1st	2nd (Dec-2022)
Hydraulic accumulators	4th	
Comparison of hydraulic and pneumatic system	3rd	
metering in, meter out circuits	2nd	
Operation of double acting cylinder	022) 1st	1st (Dec-2022)
Direct control of single acting cylinder	4th	
Pneumatic circuits	3rd	
ISO Symbols of pneumatic components	2nd	
Throttle valves	022) 1st	4th (Nov-2022)
INTERNAL ASSESSMENT	4th	
INTERNAL ASSESSMENT	3rd	
INTERNAL ASSESSMENT	2nd	
INTERNAL ASSESSMENT	022) 1st	3rd (Nov-2022)
Flow control valves	4th	
3/2DCV,5/2 DCV,5/3DCV	3rd	

