SCIPLINE- MECHANICAL	SEMESTER-5TH	NAME OF THE FACULTY:ABHIJIT CHANDA
BJECT- HM&IFP	NO. OF CLASS ALLOTED/ PER WEEK-5	SEM. From date: 15.9.2022 TO 22.12.2022 No of weeks:13TH
EEK	CLASS DAY	THEORY TOPIC
	15.09.2022	Hydraulic Turbines: Definition & classification of hydraulic turbines
	16.09.2022	Construction & working principle of impulse turbine
467 14554	17.09.2022	Velocity diagram of moving blades, work done
1ST WEEK	19.09.2022	derivation of various efficiencies of impulse turbine
	20.09.2022	Velocity diagram of moving blades, work done
	21.09.2022	derivation of various efficiencies of Francis turbine
	22.09.2022	Velocity diagram of moving blades, work done
	23.09.2022	derivation of various efficiencies of Kaplan turbine
2ND WEEK	26.09.2022	Numerical Problems
		Distinguish between impulse turbine and reaction turbine
	27.09.2022 28.09.2022	DO
	29.09.2022	DO
		Centrifugal Pumps:
3rd week	30.09.2022	Construction & working principle centrifugal pump.
4th week	1.10.2022	<u> </u>
	6.10.2022	work done & derivation of various efficiences of centrifugal pumps
	7.10.2022	Numerical Problems
	11.10.2022	Numerical Problems
	12.10.2022	Reciprocating Pumps:
	13.10.2022	Reciprocating Pumps:
5th week	14.10.2022	Describe construction & working of single acting reciprocating pump
	17.10.2022	Describe construction & working of single acting reciprocating pump
	18.10.2022	Describe construction & working of double acting reciprocating pump
	19.10.2022	Derive the formula for power required to drive the pump (single & double acting)
	20.10.2022	Derive the formula for power required to drive the pump (single & double acting)
6th week	21.10.2022	Define Slip: state positive & negative slip and amp.
	26.10.2022	Define Slip: state positive & negative slip and amp.
	27.10.2022	Establish relation between slip & coefficient of discharge
	28.10.2022	Numerical Problems
7th week	29.10.2022	Numerical Problems
	31.10.2022	Numerical Problems
	2.11.2022	Elements- filter- regulator- lubrication unit, pressure control valves
	4.11.2022	pressure relief valves, pressre regulation valves, direction control valves
8th week	5.11.2022	3/2DCV, 5/2 DCV,5/3 DCV, Flow control valves,Throttle valves
	7.11.2022	ISO Symbols of pneumatics components, pneumatics circuits
	9.11.2022	Direct control of single acting cyclinder,
	10.11.2022	Operation of double acting cylinder
9th week	11.11.2022	Operation of double acting cylinder with metering in & metering out control
Jul Week	14.11.2022	DO
	16.11.2022	DO
10th week	17.11.2022	Hydraulic Control System: its merit and demerits
2011. 11.001.	18.11.2022	Hydraulic Control System: its merit and demerits
	21.11.2022	Hydraulic accumulator, pressure control valves,pressure relief valves
	22.11.2022	Hydraulic accumulator, pressure control valves, pressure relief valves
	24.11.2022	Hydraulic accumulator, pressure control valves,pressure relief valves
11+6!:	25.11.2022	Pressure regulation valves, Direction control valves
11th week	28.11.2022	3/2DCV, 5/2 DCV,5/3 DCV
		Flow control valves, Throttle valves, Fluid power valves
	29.11.2022	
	30.11.2022 2.12.2022	External and internal gear pumps  ISO Symbols for hydraulic components.

13th week	6.12.2022	Actuators, Hydraulic circuits, direct control of single acting cyclinder
	7.12.2022	operation of double acting cyclinder
14th week	13.12.2022	Operation of double acting cyclinder with metering in & metering out control
	15.12.2022	Comparision of hydraulic and pneumatic system
15th week	21.12.2022	DO
	22.12.2022	DO