Winter- 23

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Discipline :- MECHANICAL	Semester:- 5TH	Name of the Teaching Fa MS RUPA BHENC			The second secon
Subject:- Hydraulic Machines &Industrial Fluid Power	No of Days/per Week Class Allotted :-04	Semester :15 WEEk	<b>ζS</b>		
Course Code: TH3					* * * * * * * * * * * * * * * * * * *
Week	Class Day	Theory/ Practical To	ppics		
<b>ļ</b> st	l al	Definition of hydraulic turbine, classif turbines	- Committee of the second	hydrau	ılic
	2 <sup>nd</sup>	Construction and working principle of impu	ulse turbine	·	
	3 <sup>rd</sup>	Velocity diagram of moving blades, w turbine.	ork done o	of impu	ilse
	411	derivation of various efficiencies of impuls	e turbine.		
2 <sup>nd</sup>	SI	Velocity diagram of moving blades, we turbine.	ork done o	of Fran	cis
	2 <sup>nd</sup>	derivation of various efficiencies of Francis	sturbine.		
	3 <sup>rd</sup>	Velocity diagram of moving blades, work done of variou efficiencies of Kaplanturbine			ou <b>š</b> o
	4 <sup>th</sup>	derivation of various efficiencies of Kaplanturbine			
3 <sup>rd</sup>	] st	Numerical			
	2 <sup>nd</sup>	Numerical			
	3 <sup>rd</sup>	Numerical			
	4 <sup>th</sup>	Distinguish between impulse turbine and reaction turbine.			
4 <sup>th</sup>	] st	Construction of centrifugal pumps			
	2 <sup>nd</sup>	working principle of centrifugal pumps	S. C.	7.1	11.0
	3rd	work done and derivation of various e	efficiencies	ofcer	ntrifugal
	4 <sup>th</sup>	Parrips			111

5 <sup>th</sup>	st	Numerical working of single acti
2,	2110	Numerical  Describe construction & working of single active reciprocating pump
	3 <sup>rd</sup>	Describe construction & Descri
		reciprocating pump.  Derive the formula foe power required to drive the pump (Single
	4 <sup>th</sup>	acting & couble acting)
6 <sup>th</sup>	l SI	Define slip. State positive & amp; negative slip & amp
all and on 1 cP	2 <sup>nd</sup>	establish relation between slip & coefficient of discharge.
	3rd	numerical
	4 <sup>th</sup>	numerical
7 <sup>th</sup>	l st	Elements – filter-regulator
	2 <sup>nd</sup>	lubrication unit
	3rd	Pressure control valves
	4 <sup>th</sup>	Pressure relief valves
8 <sup>th</sup>	l st	Pressure regulation valves
	2 <sup>nd</sup>	Direction control valves
<u> </u>	3rd	3/2DCV,5/2 DCV
	4 <sup>th</sup>	5/3DCV
9 <sup>th</sup>	1 st	Flow control valves
	2 <sup>nd</sup>	Throttle valves
	3rd	ISO Symbols of pneumatic components
	4 <sup>th</sup>	ISO Symbols of pneumatic components
10 <sup>1h</sup>	SI	Operation of double acting cylinder
	2 <sup>nd</sup>	Operation of double acting cylinder
	3rd	Operation of double acting cylinder with metering in
	4 <sup>th</sup>	Operation of double acting cylinder with metering out control
110	1 st	Hydraulic system.
	2 <sup>nd</sup>	its merit and demerits
	3rd	Hydraulic accumulators
	4 <sup>th</sup>	Pressure control valves
12 <sup>th</sup>	181	Pressure relief valves
12	2nd	Pressure regulation valves
	3rd	
		Direction control valves
	4 <sup>th</sup>	3/2DCV,5/2 DCV
13 <sup>th</sup>	1 st	5/3DCV
TO COLUMN THE REAL PROPERTY.	2 <sup>nd</sup>	Flow control valves

	3 <sup>rd</sup>	Flow control valves	A CONTRACTOR OF THE STATE OF TH	energia in a server Por VII	C C
	4 <sup>th</sup>	Throttle valves	The second secon		
14 <sup>th</sup>	<b>I</b> st	External gear pumps	in manufalli in and inspection with white territories and		and the second s
	2 <sup>nd</sup>	internal gear pumps			
	3 <sup>rd</sup>	Vane pump			
	4 <sup>th</sup>	Radial piston pumps	the transfer of the second	reache de pair per inventor una	
15 <sup>th</sup>	1 st	ISO Symbols for hydraulic components.	man in the second secon	e againstagain y a angairtíreach na m T	
	2 <sup>nd</sup>	Actuators		in the second se	
	3 <sup>rd</sup>	Direct control of single acting cylinder Operation of double acting cylinder	,		
	4 <sup>th</sup>	Operation of double acting cylinder with out control Comparison of hydraulic and pneumat		and me	etering

Signature Signature

HOD (MECH.)