SESSION:		WINTER 2023						
BRANCH: SEMESTER: SUBJECT:		MECHANICAL ENGINEERING						
		5TH SEC-B						
		FLUID MECHANICES AND HYDRAULIC MACHNE TH-3						
NAME (	OF THE FA	CULTY:		KISHORE KUMAR DAS				
SL NO.	MONTH	CHAPT. NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% covered		
	.138		4/8/2023	CH-1,1.1:Definition and classification of				
	1000			hydraulic turbines				
4	1123		8/8/2023	1.2:Construction and working principle of				
1				impulse turbine				
			9/8/2023	<ol> <li>1.3:Velocity diagram of moving blades, work done and derivation of various efficiencies of impulse turbine.</li> </ol>				
			10/8/2023	Velocity diagram of moving blades, work done and derivation of various efficiencies of impulse turbine.				
			11/8/2023	Velocity diagram of moving blades, work done and derivation of various efficiencies of				
			16/8/23	impulse turbine.  1.4:Velocity diagram of moving blades, work				
			10/8/23	done and derivation of various efficiencies of				
				Francis turbine.	1			
		1	17/8/23	Velocity diagram of moving blades, work				
1	AUGUST			done and derivation of various efficiencies of Francis turbine.	16	29%		
-	2000		18/8/23	Velocity diagram of moving blades, work	1			
				done and derivation of various efficiencies of				
				Francis turbine.				
		1	21/8/23	1.5: Velocity diagram of moving blades, work	1			
				done and derivation of various efficiencies of				
				Kaplan turbine	-			
			22/8/23	Velocity diagram of moving blades, work done and derivation of various efficiencies of				
				Kaplan turbine				
			23/8/23	1.6Numerical on above	1			
			24/8/23	1.6Numerical on above				
			25/8/23	1.6Numerical on above	1			
			28/8/23	1.7:Distinguish between impulse turbine and reaction turbine	d			
			29/8/23	CH-2,2.1:Construction and working principle of centrifugal pumps	•			
1		2	31/8/23	Construction and working principle of centrifugal pumps				

					1	
			1/9/2023			
				2.2:work done and derivation of various		30%
		2	6	efficiencies of centrifugal pumps		
	a.	2		2.3:Numerical on above		
			1/3/202	Numerical on above		
			3/3/2020	Numerical on 13375		
			7/9/2023	CH-3,3.1:Describe construction & Damp;		
				CH-3,3.1:Describe construction assures		
				working of single acting reciprocating pump		
			8/9/2023	o walke of		
				3.2Describe construction & Damp; working of		
1				double acting reciprocating pump		
			11/9/2023	3.3:Derive the formula for power required to		
				drive the pump (Single acting & Damp; double		
				acting		
		3	12/9/2023	3.4Define slip.	17	
2	SEPT.		13/9/23	3.5 State positive & Damp; negative slip & Damp;		
				establish relation between slip & coefficient		
				of discharge.		
			14/9/23	3.5 State positive & Damp; negative slip & Damp;		
				establish relation between slip & coefficient		
				of discharge.		
			15/9/23			
			21/9/23	3.6:Solve numerical on above		
			22/9/23	CH-4,4.1:Elements -filter-regulator-		
		4		lubrication unit		
			25/9/23	4.2:Pressure control valves		
			26/9/23	4.2.1:Pressure relief valves		
			27/9/23	4.2.2:Pressure regulation valves		
			28/9/23	4.3: 3/2DCV,5/2 DCV,5/3DCV		
			29/9/23	Flow control valves Throttle valves		
	OCT.	OCT. 5	3/10/202	3	10	18%
				4.4: ISO Symbols of pneumatic components		
			4/10/202	3		
				4.5: Direct control of single acting cylinder		
			5/10/202	3 Operation of double acting cylinder		
			6/10/202	23		
3				Operation of double acting cylinder with		
				metering in and metering out control		
			9/10/202	23 CH-5,5.1: Hydraulic system, its merit and		
				demerits		
			-	23 5.2: Hydraulic accumulators		
			11/10/20	Pressure control valves		
			12/10/20	223 Pressure relief valves		
			13/10/2	23 Pressure regulation valves		
			31/10/2			
		5	1/11/20	23 3/2DCV,5/2 DCV,5/3DCV	14	
			2/11/20	The second secon		
	13		3/11/20	23 5.4.1: External and internal gear pumps		
				23 Vane pump		23%
			5 6/11/20	C & Leaves Brancille	1 20	2010
		3	THE RESIDENCE OF THE PARTY OF T	23 Radial piston pumps	- 1	23%
		4	THE RESIDENCE OF THE PARTY OF T	23 Radial piston pumps		23%

1	1	[	9/11/2023	5.6: Actuators		
	- 1		10/11/2023			
4	NOV.	ov.		5.7: Direct control of single acting cylinder		
1	101.		13/11/23	Operation of double acting cylinder		
		5	14/11/23	Operation of double acting cylinder with metering in and metering out control	14	23%
	7	15/11/2023	5.8: Comparison of hydraulic and pneumatic system			
			16/11/23	Comparison of hydraulic and pneumatic system		
	Ä		17/11/23	Comparison of hydraulic and pneumatic system		

BRIEF SUMMARY OF THE PLAN					
SL NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% COVERAGE		
1	AUGUST	CHAPTER NO 1 & 2	29%		
2	SEPTEMBER	CHAPTER NO 2,3 & 4	30%		
3	OCTOBER	CHAPTER NO 4 & 5	12%		
4.	NOVEMBER	CHAPTER NO 5	23%		

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