N. 1		Lesson Plan	
Subject: <u>H</u>	<u>M & IFP</u> (Th-3)	Name of faculty: Sangran	Bismaf
Semester:	5 th Class allotted	4p/week Branch: Mechanical Session	n: <u>2023(W)</u>
Discipline	Semester	From date: To date:	
Subject:	No. of days/ per week	Theory Practical Topics/Lesson	Teaching Aid
Veek	Date/Period		
1	01/08/2023 to	1.0 HYDRAULIC TURBINES . 1.1 Definition and classification of hydraulic turbines	White Board Marker
	05/08/2023	1.2 Construction and working principle of impulse turbine.	Smart board
		 Velocity dig of moving blades, work done and derivation of various efficiencies of impulse turbine 	n an an sam an an an an agus a tha an
2	07/08/2023	Continue	White Board
	to	1.4 Velocity dig of moving blades, work done and derivation of various efficiencies of Francis turbine	Marker
-	12/08/2023	Continue	Smart board
		1.5 Velocity dig of moving blades, work done and derivation of various efficiencies of Kaplan turbine	
3	14/08/2023	Continue	White Board
	to	1.6 Numerical on above	Marker
	19/08/2023	Continue	Smart board
		Continue	n na seanna a shariffa ba Mad sabayir na kirci hiko kuvo
4	21/08/2023	2.0 CENTRIFUGAL PUMPS	White Board
	to	2.1 Construction and working principle of centrifugal pumps	Marker
	26/08/2023	Continue 2.2 work done and derivation of various efficiencies of centrifugal pumps.	Smart board
5	28/08/2023	Continue	White Board
	to	2.3 Numerical on above	Marker
	02/09/2023	Continue	Smart board
6	04/09/2023	3.0 RECIPROCATING PUMPS	White Board
	to	3.1 Describe construction & working of single acting reciprocating pump.	Marker
	09/09/2023	Continue 3.2 Describe construction & working of double acting reciprocating pump.	Smart board
7	11/09/2023	Continue	White Board
	to 16/09/2023	Continue 3.3 Derive the formula for power required to drive the pump (Single acting & double acting)	Marker Smart board

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Week	Date/Period	Theory/ Practical – Topics/Lesson	Teaching Aid
	18/09/2023	Continue	White Board
8	to	3.5 Define slip.	Marker
	23/09/2023	3.5 State positive & negative slip & amp; establish relation between slip & coefficient of discharge.	Smart board
	25/09/2023	Continue	White Board
		Continue	Marker
9	30/09/2023	3.6 Solve numerical on above	Smart board
	50/02/2025	Continue	Smart Obaru
	03/10/2023		White Deard
	03/10/2023	4.0 PNEUMATIC CONTROL SYSTEM	white Board
10	10	4.1 Elements – Inter-regulator-indirication unit	Marker
10	10	4.2 Pressure control valves	Smart board
	07/10/2023	4.2.1 Pressure regulation values	Smart Udard
	09/10/2023	4.2.2 Pressure regulation valves	
	09/10/2023		
11	to	Internal Exam	
	14/10/2023		
	16/10/2023	4.3 Direction control valves	White Board
	to	4.3.1 3/2DCV,5/2 DCV,5/3DCV	Marker
12	20/10/2023	4.3.2 Flow control valves	Smart board
		4.3.3. Throttle valves	
	30/10/2023	4.4 ISO Symbols of pneumatic components	White Board
-	to	4.5. Pneumatic circuits	Marker
13	04/11/2023	4.5.1 Direct control of single acting cylinder	Smart board
15		4.5.2 Operation of double acting cylinde	
	06/11/2023	4.5.3 Operation of double acting cylinder with metering in and metering out control	White Board
	to	5.0 HYDRAULIC CONTROL SYSTEM	Marker
		5.1 Hydraulic system, its merit and demerits	
14	11/11/2023	5.2 Hydraulic accumulators	Smart board
		5.2.1 Pressure control valves	
		5.2.2 Pressure relief valves	
		5.2.3 Pressure regulation valves	N/L'S D. J
	13/11/2023	5.3 Direction control valves	White Board
	to	5.4 Fluid power pumps	Marker
15	18/11/2023	5.4.1 External and internal gear pumps	Smart board
		5.4.2 Vane pump	
		5.4.3 Radial piston pumps	
		5.5 ISO Symbols for hydraulic components.	
		5.6 Actuators	

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Week	Date/Period		
	20/11/2023	Theory/ Practical – Topics/Lesson	Teaching Aid
	to 25/11/2023	5.7 Hydraulic circuits	White Board
16		5.7.1 Direct control of single acting cylinder	Marker
		5.7.2 Operation of double acting cylinder	Smart board
		5.7.3 Operation of double acting cylinder with metering in and metering out control	Sind Court
	28/11/2023	Revision	White Board
17	to	Revision	Marker
- /	30/11/2023	Revision	Smort board
		Revision	Smart Doard

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