	LESSON PLAN WINTER-2021									
NAME OF FACULTY: RUPA BHENGRAJ SUBJECT- HMIFP(5TH) BRANCH- MECHANICAL ENGG.										
SEME	STER	No. of	ROM DATE:1.10.2022	TO DATE:30.01.2022 No. OF WEEKS = 15	ı					
SL NO	Week	Days/Week Class alloted: 4	CHAPTER	TOPIC NAME	NO OF PERIODS					
1		1st		Defination, Classification of hydraulic turbines	1					
2		2nd		General layout of hydroelectric power plant	1					
3	1st	3rd		Construction and working principle of impulse turbine.	1					
4		4th		Derivation of efficiencies of impulse turbine	1					
5		1st		Velocity triangle,derivation work done & various efficiencies of impulse	1					
6	2 1	2nd		Numerical Problems related to impulse turbine	1					
7	2nd	3rd		Construction and working principle of Francis turbine.	1					
8		4th	HYDRAULIC TURBINES CHAP-1	Working principle of Francis turbine.	1					
9		1st	CHAP-1	Velocity triangle, derivation work done & various efficiencies of Francis	1					
10	3rd	2nd		Numerical Problems related to Francis turbine	1					
11	3ra	3rd		Construction and working principle of Kaplan turbine.	1					
12		4th		Working principle of Kaplan turbine.	1					
13		1st		Velocity triangle, derivation work done & various efficiencies of Kaplan	1					
14	4th	2nd		Numerical Problems related to Kaplan turbine	1					
15	+ 111	3rd		Difference between impulse turbine and reaction turbine	1					
16		4th		Defination, construction of centrifugal pumps	1					
17		1st	CENTRICAL BUMBS	Working principle of centrifugal pumps	1					
18	5th	2nd	CENTRIFUGAL PUMPS CHAP-2	Derivation of work done of centrifugal pumps	1					
19	ЭIП	3rd	UNAF-2	Derivation of various efficiencies of centrifugal pumps	1					
20		4th		Numerical Problems related to Centrifugal pumps	1					
21		1st		Defination, Construction and working of Reciprocating pumps	1					
22		2nd		Derivation of discharge & work done of a single acting Reciprocating Pump	1					
23	6th	3rd	RECIPROCATINGG	Derivation of discharge & work done of a double acting Reciprocating Pump	1					
			PUMPS CHAP-3	Difference between Centrifugal & Reciprocating pump, numerical problems						
24		4th		related to single acting reciprocating pump	1					
25		1st		Numerical Problems related to double acting Reciprocating pumps	1					
26		2nd		Introduction to pneumatic system, Basic components pneumatic system	1					
27	7th	3rd		Construction & working of air filters	1					
28		4th		Construction & working of lubrication unit	1					
29		1st		Construction & working of pressure control valve	1					
30	0.1	2nd		Construction & working of pressure relief valve	1					
31	8th	3rd		Construction and working of 3/2DCV	1					
32		4th		Construction and working of 5/2 DCV	1					
33		1st	PNEUMATIC SYSTEM	Construction and working of 5/3 DCV	1					
34	0.1	2nd	CHAP-4	Construction and working of Throttle valves	1					
35	9th	3rd		ISO Symbols of pneumatic components	1					
36		4th		Basic components pneumatic circuits	1					
37		1st		Operation of Direct control of single acting cylinder	1					
38	104	2nd		Operation of double acting cylinder	1					
39	10th	3rd		Operation of double acting cylinder with metering in control	1					
40		4th		Operation of double acting cylinder with metering out control	1					
41		1st		Introduction to Hydraulic system, difference between hydrautlic & pneumatic	1					
42	11th	2nd		Merit and demerits of Hydraulic system	1					
43	11111	3rd		Hydraulic accumulators	1					
44		4th		Pressure control valves	1					
45		1st		Pressure relief valves	1					
46	12th	2nd		Pressure regulation valves	1					
47	14ll	3rd		Construction and working of 3/2DCV	1					
48		4th		Construction and working of 5/2 DCV	1					
49	_	1st		Construction and working of 5/3 DCV	1					
50	13th	2nd	HYDRAULIC SYSTEM	Construction and working of Flow control valves	1					
51	1,7111	3rd	CHAP-4	Construction and working of Throttle valves	1					
52		4th		ISO Symbols of pneumatic components	1					
53		1st		Basic components pneumatic circuits	1					
54	14th	2nd		Operation of Direct control of single acting cylinder	1					
55	17111	3rd		Operation of double acting cylinder	1					
56		4th		Operation of double acting cylinder with metering in control	1					

57	15th	1st		Operation of double acting cylinder with metering out control	1	
58		2nd]	Revision & doubt clearing	1	
59		3rd		Revision & doubt clearing	1	
60		4th		Revision & doubt clearing	1	
TOTAL						