					LESSON PLAN.					
					ACADEMY SESSION - SUMMER 2024					
				4th SEN	MESTER W.E.F-16/01/2024 Total Period :- 60					
					Subject:- Thermal Engineering-II					
	Teacher :- DHARMA PRAKSH SAMAL (LECTURER)									
SL NO	MONTH	Week	Class Day	UNIT NO/PERIOD ALLOTED	Topic to be covered as per Syllabus	Topic actually covered as per Syllabus	Short fall if any/syllabu s	remarks		
1		1st	1st	8	Define Mechanical Efficiency, Indicated Thermal Efficiency					
2			2nd		Relative Efficiency, Brake Thermal Eficiency,Overall Efficiency					
3	Y		3rd		Relative Efficiency, Brake Thermal Eficiency,Overall Efficiency					
4	R		4th		Mean Effective Pressure & Specific Fuel Consumption					
5	٩U	2nd	1st		Mean Effective Pressure & Specific Fuel Consumption					
5 6	Ī		2nd		Define air-fuel ratio& calorific value of fuel					
7	ANUARY		3rd		Workout problems to determine efficiencies & specific fuel consumption.					
8			4th		Doubt clearing class on 1 st chapter.					
9		3rd	1st	-	Explain functions of air-compressor & it's industrial use.					
10			2nd		Classify air-compressor & principle of operation.					
11			3rd		Classify air-compressor & principle of operation.					
12			4th		Describe parts & working principle of a reciprocating air- compressor					
13		4th	1st		Describe parts & working principle of a reciprocating air- compressor					
14			2nd	10	Explain various terminology for reciprocating compressor.					

15 3rd Explain various terminology for reciprocating compressor. 16 4th Derive workdone of single stage air-compr. with & without clearance 17 1st Derive workdone of single stage air-compr. with & without clearance 18 3rd Workout simple problems. 20 4th Doubt clearance 20 4th Doubt clearance 21 1st Doubt clearance 22 6th 3rd 23 6th 3rd 24 4th Doubt clearang class on air- compressor 24 2nd Formation of steam & its type. 25 2nd 1st Difference between gas & vapour. 26 2nd 1st Definition & properties of steam. 26 2nd 1st Definition & properties of steam. 29 1st Definition & properties of steam. Definition & properties of steam. 30 8th 2nd Non-flow & flow processes of vapour. Determine the changes in properties & solve simple numerals. 31 2nd 3rd Revision Revision	
164thDerive workdone of single stage air-compr. with & without clearance	
10 10 without clearance 10 17 18 1st Derive workdone of single stage air-compr. with & without clearance 10 18 2nd 3rd Derive workdone of double stage air-compr. with & without clearance 10 19 3rd 0 4th 0ubt clearance 10 20 4th 0ubt clearance 10 10 21 1st 0ubt clearance as vapour. 10 22 6th 3rd 11 0ubt clearance as vapour. 10 23 6th 3rd 11 0ubt clearance as vapour. 10 24 7 1st 0ubt clearance as vapour. 10 10 25 1st 1st 0ubt clearance as vapour. 10 10 26 7 1st 0ubt clearance as vapour. 10 10 28 1st 1st 0ubt clearance as vapour. 10 10 29 1st 1st Non-flow & flow processes of vapour. 10 10 30 8th 2nd 1st 0uerasis. 10	
1718Sth2ndwithout clearance1183rdDerive workdone of double stage air-compr. with & without clearance1193rdWorkout simple problems.1204thDoubt clearing class on air- compressor1213rdDoubt clearing class on air- compressor1226th3rdFormation of steam & its type.1233rd1stDefinition & properties of steam.1247th2ndDefinition & properties of steam.1267th3rd12Non-flow & flow processes of vapour.1291st2ndNon-flow & flow processes of vapour.1308th2ndDetermine the changes in properties & solve simple numerals.1313rd3rdDetermine the changes in properties & solve simple numerals.1313rdRevision11	
17Without clearanceImage: Constraint of the second s	
18Sth2nd193rdWorkout simple problems.204thDoubt clearance214thDoubt clearing class on air- compressor211stDifference between gas & vapour.22236th3rd243rdFormation of steam & its type.244thDefinition & properties of steam.251stDefinition & properties of steam.267th2nd7th3rd284th291st308th313rd324th	
19 20 21 22 23 24 24 25 26 27 27 283rdWorkout simple problems.Image: Compression of the compressi	
267th2nd273rd12284th291st308th312nd324th	
26 277th2nd 3rdUse of steam table & Mollier chartImage: Constraint of the population of the popu	
267th2nd273rd12284th291st308th312nd324th	
277th3rd12Non-flow & flow processes of vapour.Image: constraint of the state of the sta	
273rd12Non-flow & flow processes of vapour.284thNon-flow & flow processes of vapour.Image: Constraint of the changes in properties & solve simple numerals.291stDetermine the changes in properties & solve simple numerals.308th2nd313rdDetermine the changes in properties & solve simple numerals.324th	
284thNon-flow & flow processes of vapour.291stDetermine the changes in properties & solve simple numerals.308th2nd313rdDetermine the changes in properties & solve simple numerals.313rd324th	
291stnumerals.308th2nd313rd324th4thRevision	
29numerals.308th2nd313rd324th4thRevision	
308th2ndnumerals.313rdDetermine the changes in properties & solve simple numerals.324thRevision	
31 3rd Determine the changes in properties & solve simple numerals. 32 4th Revision	
31 3rd numerals. 32 4th Revision	
32 4th Revision	
33 1st Classification of boiler	
34 2nd Types of boiler	
35 9th 3rd Important terms connected with boiler	
36 4th Comparision between firetube & watertube boiler.	
37 1st Description & working of Cochran Boiler	
38 2nd Description & working of Babcock & Wilcox Boiler	
10th 12 Description & working of Debaack & Wilson Bailer	
404thDescription & working of Lancashire Boiler411st	
41 1st Boiler Draught	

42		11th	2nd		Boiler Mountings		
43 44	MA		3rd		Boiler Accssessories		
44			4th		Doubt Clearing class.		
45		12th	1st	8	Carnot cycle with vapour.		
46			2nd		Derive work & efficiency		
47			3rd		Rankine cycle in P-V, T-S &H-S diagram		
48			4th		Derive work & efficiency of Rankine cycle		
49	·		1st		Effect of various end condition in Rankine cycle		
50			2nd		Reheat cycle & Regenerative cycle		
		13th	3rd		Simple problems on Carnot vapour cycle & Rankine		
51					cycle.		
52			4th		Doubt clearing class on staem power cycle.		
		14th	1st	8	Modes of heat transfer & Fourier's law of heat		
53					conducton & thermal conductivity.		
			2nd		Newton's law of cooling & Radiation heat		
54					transfer(Stifan-Boltzman &Kirchoff's law)		
			3rd		Newton's law of cooling & Radiation heat		
55	2				transfer(Stifan-Boltzman &Kirchoff's law)		
	APRI		4th		Newton's law of cooling & Radiation heat		
56 57					transfer(Stifan-Boltzman &Kirchoff's law)		
57		15th	1st		Black body radiation, emissivity		
58			2nd		Black body radiation, emissivity		
59			3rd		absorptivity & transmissivity.		
60			4th		absorptivity & transmissivity.		

Dharma preakersh Samal