

Department: Electrical Engineering Semester: 3rd
 Subject: Elements of Mechanical Engg.

No. of periods per week: 4
 Total Periods: 60
 Class test: 20

End semester exam: 80
 Total Marks : 100

Sl. No.	Week	Period	Topic to be covered
1.	1 st	1 st	State Unit of Heat and work, 1st law of thermodynamics
2.		2 nd	Do
3.		3 rd	State Laws of perfect gases
4.		4 th	Do
5.	2 nd	1 st	Determine relationship of specific heat of gases at constant volume and constant pressure
6.		2 nd	Do
7.		3 rd	Use steam table for solution of simple problem
8.		4 th	Do
9.	3 rd	1 st	Do
10.		2 nd	Explain total heat of wet, dry and super heated steam
11.		3 rd	Do
12.		4 th	State types of Boilers
13.	4 th	1 st	Do
14.		2 nd	Do
15.		3 rd	Describe Cochran, Babcock Wilcox boiler
16.		4 th	Do
17.	5 th	1 st	Do
18.		2 nd	Describe Mountings and accessories
19.		3 rd	Do
20.		4 th	Do
21.	6 th	1 st	Do
22.		2 nd	Explain the principle of Simple steam engine
23.		3 rd	Draw Indicator diagram
24.		4 th	Do
25.	7 th	1 st	Do
26.		2 nd	Calculate Mean effective pressure, IHP and BHP and mechanical efficiency
27.		3 rd	Do
28.		4 th	Solve Simple problem
29.	8 th	1 st	Do
30.		2 nd	Do
31.		3 rd	Do
32.		4 th	STEAM TURBINES Types
33.	9 th	1 st	Do
34.		2 nd	Do
35.		3 rd	Differentiate between impulse and reaction Turbine

36.		4 th	Do
37.	10 th	1 st	Do
38.		2 nd	Explain the function of condenser
39.		3 rd	State their types
40.		4 th	Do
41.	11 th	1 st	Do
42.		2 nd	Explain working of two stroke and 4 stroke petrol and Diesel engines.
43.		3 rd	Do
44.		4 th	Differentiate between them
45.	12 th	1 st	Do
46.		2 nd	Describe properties of fluid
47.		3 rd	Determine pressure at a point, pressure measuring Instruments
48.		4 th	Do
49.	13 th	1 st	Do
50.		2 nd	Do
51.		3 rd	Deduce equation of continuity of flow
52.		4 th	Do
53.	14 th	1 st	Explain energy of flowing liquid
54.		2 nd	Do
55.		3 rd	State and explain Bernoulli's theorem
56.		4 th	Intensifier
57.	15 th	1 st	Hydraulic lift
58.		2 nd	Accumulator
59.		3 rd	Hydraulic ram
60.		4 th	Do