

Discipline: Electrical engineering	Semester : 3 rd Semester 2020-21	Name of the Teaching faculty: Smt. C R Meher(Lect.)
Subject :ELEMENT OF MECHANICAL ENGINEERING	No. of Days/Week Class Allotted: 60	Semester from date: 01/09/2020 to date: 19/03/2021 No of weeks :18
Week	Class Day	Theory Topics
1 st	1 st	definition of thermodynamics
	2 nd	state unit of heat and work, 1st law of thermodynamics
	3 rd	state laws of perfect gases
	4 th	boyles law charles law ,gaylusses law
2 nd	1 st	Determine relationship of specific heat of gases at constant volume and constant pressure.
	2 nd	properties of steam
	3 rd	use steam table for solution of simple problem
	4 th	explain total heat of wet, dry and super heated steam
3 rd	1 st	introduction boilers:
	2 nd	state types of boilers
	3 rd	describe cochran,
	4 th	babcock ,wilcox boiler
4 th	1 st	describe mountings of boiler
	2 nd	accessories of boiler
	3 rd	introduction steam engines
	4 th	explain the principle of simple steam engine
5 th	1 st	draw indicator diagram
	2 nd	calculate mean effective pressure, ihp and bhp and mechanical efficiency
	3 rd	solve simple problem.
	4 th	steam turbines
6 th	1 st	state types of stem turbine
	2 nd	differentiate between impulse and reaction turbine
	3 rd	condenser introduction
	4 th	explain the function of condenser
7 th	1 st	state their types of condenser
	2 nd	IC. engine
	3 rd	explain working of two stroke petrol engine
	4 th	explain working 4 stroke petrol engine
8 th	1 st	explain working of two stroke diesel engine
	2 nd	explain working 4 stroke diesel engine
	3 rd	differentiate between ic engine and ec engine
	4 th	differentiate between them diesel engine and petrol engine

9 th	1 st	differentiate between them diesel engine and petrol engine
	2 nd	hydrostatics
	3 rd	property of fluid
	4 th	mass density, specific volume,
10 th	1 st	relative density, surface tension
	2 nd	viscosity definition unit,
	3 rd	numerical on hydrostatic
	4 th	definition of pressure and types
11 th	1 st	determine pressure at a point
	2 nd	different types of pressure measuring instrument
	3 rd	different types of pressure measuring instrument
	4 th	manometer ,u tube manometer
12 th	1 st	numerical on pressure measuring instrument
	2 nd	hydrokinetics
	3 rd	types of fluid flow
	4 th	define continuity equation
13 th	1 st	derived a continuity equation
	2 nd	problem solving on continuity equation
	3 rd	explain energy of flowing liquid
	4 th	types of energy flow in fluid
14 th	1 st	state and explain Bernoulli's theorem
	2 nd	solving numerical on Bernoulli's theorem
	3 rd	hydraulic devices and pneumatics
	4 th	hydraulic devices and pneumatics
15 th	1 st	intensifier
	2 nd	hydraulic lift
	3 rd	accumulator
	4 th	hydraulic ram
16 th	1 st	revision of chapter 1 and 2
	2 nd	revision of chapter 3 and 4
	3 rd	revision of chapter 5 and 6
	4 th	revision of chapter 7 and 8
17 th	1 st	revision of chapter 9 and 10
	2 nd	discussion of question and answer of chapter 1
	3 rd	discussion of question and answer of chapter 2
	4 th	discussion of question and answer of chapter 3
18 th	1 st	discussion of question and answer of chapter 4
	2 nd	discussion of question and answer of chapter 5 and 6
	3 rd	discussion of question and answer of chapter 7 and 8
	4 th	discussion of question and answer of chapter 9 and 10

