

# CLASS ROOM STRATEGY & PLAN

Subject : EME (ME-101 E)

Lect.no.	PROPOSED DATE	Topic to be covered
		<b>UNIT- I1</b>
1	FEB 02/09	Introduction
2	FEB 05/09	, Classification of I.C. Engines, Constructional details & working of two-stroke engines
3	FEB 06/09	Constructional details and working of four-stroke diesel and petrol engines.
4	FEB 09/09	Otto, Diesel cycles up to efficiency.
5	FEB 12/09	. Dual cycles. And Numericals.
6	FEB 13/09	Introduction & Working principle of gas turbine. Constant pressure gas turbine cycle.
7	FEB 16/09	. Water Turbines: Introduction, Classification and Construction details and working of Pelton turbine
8	FEB 19/09	Francis and Kaplan turbines, Specific speed and selection of turbines.
9	FEB 20/09	Classification of water pumps and their working
10	FEB 24/09	Hydraulic jack and lift
		<b>UNIT- III</b>
11	FEB 26//09	Definition of machine, Velocity ratio, Mechanical advantage, Efficiency, Laws of machines, Reversibility of machine
12	FEB 27/09	Wheel and axle, Differential pulley block.
13	MAR 02 /09	Single, double and triple start worm and worm wheel, Single purchase winch crab
14	MAR 05/09	Simple and compound screw jacks.problems
15	MAR 06/09	Introduction to Power transmission, Belt drive, Rope drive, Chain drive,
16	MAR 09/09	Pulley, Gear drive, Types of gears,gera train
17	MAR 19/09	Clutches, Types and function of clutches
18	MAR 20/09	Types and function of brakes
19	MAR 23/09	Power measurement by dynamometer, Types of dynamometers
		<b>UNIT-IV</b>
20	MAR 30/09	Introduction, Concept & types of Stresses and strains, Poison's ratio, Stress-strain diagrams, Hooks law
21	MAR 31/09	Stresses & strains in simple & compound bars under axial loads
22	APR 02/09	Elastic constants & their relationships

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23	<b>APR 02/09</b>	. Stresses & strains in simple & compound bars under axial loads
24	<b>APR 06/09</b>	Principle stresses & strains and principal- planes Mohr's circle of stresses
25	<b>APR 07/09</b>	Bending Moment & Shear Force: Definitions, SF and BM diagrams for cantilever and simply supported beam.
26	<b>APR 09/09</b>	Calculation of maximum SF, BM and point of contraflexure under the loads of (i) concentrated load
	<b>APR 10/09</b>	Combination of concentrated and uniformly distributed loads.
27		<b>UNIT-I</b>
28	<b>APR 13/09</b>	Condition of steam, steam tables, Measurement of dryness fraction by throttling calorimeter
29	<b>APR 16/09</b>	Classification of boilers, Comparison of water and fire tube boilers,
30	<b>APR 17/09</b>	Mounting and Accessories with their functions. Constructional details of Cochran boiler
31	<b>APR 27/09</b>	Constructional details of Babcock & Wilcox boiler, Problems.
32	<b>APR 28/09</b>	Classification of turbines, Working principle of impulse
33	<b>MAY 30/09</b>	Working principle of reaction turbine,. Comparison of impulse and reaction turbines
34	<b>MAY 01/09</b>	Compounding of impulse turbine.
35	<b>MAY 04/09</b>	Types of condensers. Cooling ponds and cooling towers, Condenser and vacuum efficiencies.
36	<b>MAY 07/09</b>	To cover the slippage.
37	<b>MAY 08/09</b>	To cover the slippage.

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