

LESSON PLAN

DEPARTMENT OF ELECTRICAL ENGINEERING, ITT, CHOUDWAR

SUBJECT: EME

Periods: 4 per week

SEMESTER: 3rd

NAME OF FACULTY: BHAGABAN PARIDA

No. of weeks: 15

Week	Period	Theory / Practical Topics
1 st	1 st	THERMODYNAMICS State and Explain Fundamental theory of thermodynamics
	2 nd	State and explain heat & work State unit of heat & work
	3 rd	State and explain 1 st law of thermodynamics Solved numerical
	4 th	State laws of perfect gases Solved numerical
2 nd	1 st	Determine relationship of sp. Heat of gases at const. volume and const. pressure
	2 nd	Solved and practice numerical of thermodynamics
	3 rd	PROPERTIES OF STEAM State and explain about steam
	4 th	State and explain p-v, t-s diagram of steam
3 rd	1 st	Use steam table for solution of simple numerical.
	2 nd	Explain total heat of wet, dry, super-heated steam
	3 rd	Solved numerical
	4 th	BOILERS State and explain about boilers
4 th	1 st	State types of boilers
	2 nd	Differentiate about various boiler
	3 rd	State and explain water tube and fire tube boiler With neat sketch
	4 th	Describe Cochran boiler with mountings and accessories With sketch
5 th	1 st	Describe Babcock Wilcox boiler with mountings and accessories With sketch
	2 nd	Describe mountings and accessories
	3 rd	Give various example of boilers
	4 th	Explain the use and application of boilers
6 th	1 st	Advantages and disadvantages of boilers
	2 nd	STEAM ENGINE State and explain about steam engine
	3 rd	Explain the principle of simple steam engine
	4 th	Draw indicator diagram
7 th	1 st	Calculate mean effective
	2 nd	pressure IHP and BHP and mechanical efficacy
	3 rd	Differentiate between steam engine and steam generator
	4 th	Explain advantages and disadvantages of steam engine
8 th	1 st	Various application and use of steam engine
	2 nd	Comparison with different engine
	3 rd	Solved numerical

	4 th	STEAM TURBINES State and explain about steam turbine
9 th	1 st	State and explain about different types of steam turbine
	2 nd	Explain about impulse turbine with diagram
	3 rd	Explain about reaction turbine with diagram
	4 th	State and explain the various use and application of turbines
10 th	1 st	Explain Advantages and disadvantages of steam turbines
	2 nd	CONDENSER State and explain about condenser
	3 rd	Explain the function of condenser
	4 th	State the types condenser
11 th	1 st	Explain the advantages and disadvantages of condensers
	2 nd	I.C ENGINE State and explain about i.c engine
	3 rd	Explain the 2stroke and 4stroke petrol engine
	4 th	Explain the 2stroke and 4stroke diesel engine
12 th	1 st	Differentiate between them
	2 nd	HYDROSTATICS State and explain about hydrostatics
	3 rd	Describe the properties of fluid
	4 th	Determine pressure at a point
13 th	1 st	Determine pressure measuring instrument
	2 nd	State and explain the various use of instrument
	3 rd	HYDROKINETICS State and explain about hydrokinetics
	4 th	Deduce equation of continuity of flow
14 th	1 st	Explain energy of flowing liquid
	2 nd	Explain the application of the equation
	3 rd	State and explain Bernoulli' theorem
	4 th	HYDRAULIC DEVICES AND PNEUMATICS State and explain about hydraulic devices
15 th	1 st	State and explain with neat sketch diagram of intensifier
	2 nd	State and explain with neat sketch diagram of hydraulic lift
	3 rd	State and explain with neat sketch diagram of Accumulator
	4 th	State and explain with neat sketch diagram of hydraulic ram

Teaching Faculty