

GOVT. POLYTECHNIC BOLANGIR
LESSON PLAN

Discipline : Electrical Engg.	Semester:3rd	Name of the Teaching Faculty : P Mahapatra
Subject : EME	No. of Days / per week class allotted :	Semester From date : 1.09.2020 To Date : 31.12.2020 No. of Weeks : 15
Week	Class Day	Topics
1ST SEPT	1st	Thermodynamics Introduction
	2nd	Various terms of thermodynamics
	3rd	unit of heat and work and Zeroth law
	4th	1st law of thermodynamics
2ND SEPT	1st	laws of perfect gases
	2nd	specific heat at constant volume and constant pressure
	3rd	relation between two specific heats
	4th	Formation of steam
3RD SEPT	1st	wet,dry and superheated steam
	2nd	using of steam table
	3rd	numericals
	4th	numericals
4TH SEPT	1st	steam generator
	2nd	Boilers and their types
	3rd	Cochran Boiler
	4th	Cochran Boiler
1ST OCT	1st	Babcock & Wilcox Boiler
	2nd	Babcock & Wilcox Boiler
	3rd	Boiler Mountings
	4th	Boiler accessories
2ND OCT	1st	Principle of steam engine
	2nd	single acting steam engine
	3rd	Double acting steam engine
	4th	Draw indicator diagram
3RD OCT	1st	calculation of mean effective pressure
	2nd	calculation of IHP & BHP
	3rd	calculation of mechanical efficiency
	4th	numericals
1ST NOV	1st	numericals
	2nd	numericals

1ST NOV	3rd	Types of steam turbines
	4th	impulse turbine
2ND NOV	1st	reaction turbine
	2nd	difference between impulse and reaction turbine
	3rd	function of condenser
	4th	types of condenser
3RD NOV	1st	types of condenser
	2nd	two stroke petrol engine
	3rd	two stroke diesel engine
	4th	four stroke petrol engine
4TH NOV	1st	four stroke diesel engine
	2nd	difference between two and four stroke engine
	3rd	properties of fluid
	4th	determine pressure at a point
1ST DEC	1st	pressure measuring instrument-- manometer
	2nd	Piezometer and simple U thbe manometer
	3rd	Differential U tube manometer
	4th	equation of continuity of flow
2ND DEC	1st	different types of energy of flowing liquid
	2nd	derivation of Bernoulli's Theorom
	3rd	numericals on continuity equation
	4th	Hydraulic Intensifier
3RD DEC	1st	Hydraulic lift
	2nd	Hydraulic Accumulator
	3rd	Hydraulic Ram
	4th	Revision
4TH DEC	1st	Revision
	2nd	Revision
	3rd	previous year question discussion
	4th	previous year question discussion