

Dicipline:	EE	Semester: 3rd	Name of the Teaching Faculty: Ajitab Sahoo	
Subject: Elements of Mechanical Engg.	No of Days/Week Class Allotted: 5	Semester From date: 15-9-22 To date: 17-01-23	No. of Weeks: 10	
WEEK	Class Day	Theory Topics		
	1st	State Unit of Heat & Work, 1st Law of Thermodynamics.		
	2nd	State laws of Perfect Gases.		
	3rd	Determine relationship of specific heat of gases at constant volume & constant pressure.		
	4th	Q & A Discussion.		
	5th	Uses of steam table for solution of simple problem.		
	1st	Explain total heat of wet, dry and super heated steam.		
	2nd	Study of steam table.		
	3rd	Solution of simple problems.		
	4th	Q & A Discussion.		
	5th	State types of boiler.		
	1st	Description of Cochran Boiler.		
	2nd	Description of Babcock Wilcox Boiler.		
	3rd	Description of Mountings & Accessories.		
	4th	Q & A Discussion.		
	5th	Explain the principle of Simple Steam Engine.		

WEEK	Class Day	Theory Topics
	1st	Draw Indicator Diagram.
	2nd	Calculate Mean Effective Pressure.
	3rd	IHP and BHP and Mechanical Efficiency.
	4th	Solution of simple problems.
	5th	Q & A Discussion.
	1st	State Types of steam turbines.
	2nd	Differentiate between impulse and reaction turbine.
	3rd	Q & A Discussion.
	4th	Explain the function of Condenser.
	5th	State their types.
	1st	Working principle of some Condenser.
	2nd	Q & A Discussion.
	3rd	Explain working of 2 stroke engines.
	4th	Explain working of 4 stroke engines.
	5th	Explain working principle of 2 Stroke engines.

Discipline:		Semester:	Name of the Teaching Faculty:	
Subject:	No of Days/Week Class Allotted: _____	Semester From date: _____ To date: _____	No. of Weeks:	
WEEK	Class Day	Theory Topics		
	1st	Explain working of diesel engine.		
	2nd	Differentiate bet ⁿ 2 stroke & 4 stroke engine		
	3rd	engines Q & A Discussion.		
	4th	Describes properties of fluid.		
	5th	Determine pressure at a point.		
	1st	Description of pressure measuring instruments.		
	2nd	Solution of simple problems.		
	3rd	Q & D discussion.		
	4th	Deduce equation of continuity of flow.		
	5th	Explain energy of flowing liquid.		
	1st	State & Explain Bernoulli's theorem.		
	2nd	Solution of simple problems.		
	3rd	Q & A Discussion.		
	4th	Discussion on Intensities.		
	5th	Discussion on Hydraulic Lift.		

WEEK	Class Day	Theory Topics
	1st	Discussion on Accumulator.
	2nd	Discussion on Hydraulic Ram.
	3rd	Practical Application Discussion of above devices.
	4th	Solution of simple problems.
	5th	Q&A Discussion.
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	

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