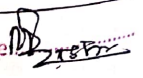


Discipline Mechanical	Semester 4th	Name of faculty Basudev Mishra.
Subject Thermal Engg-II	No. of days/ Week allotted 4	Sem. from 16/1/24 - 26/4/24 No. of weeks

Week	Class/Day	Theory.
1st	Mon.	Performance of IC engine, mechanical efficiency, indicated thermal efficiency. Problem solving
	Tues.	x
	Wed.	Brake thermal efficiency, numerical solving
	Thurs.	Overall efficiency, mean effective pressure
	Fri	MEP, specific fuel consumption
	Sat	x
2nd	Mon.	Air purification, calorific value of fuel
	Tues	x
	Wed.	numerical solving
	Thurs.	Air compressor, its function and industrial use of compressed air
	Fri	Classification of air compressor principle of operation
	Sat.	x
3rd	Mon	Principle of operation, description of its parts
	Tues	x
	Wed.	Working principle of air compressor
	Thurs	Terminology of air compressor
	Fri	Volumetric efficiency of compressor.
	Sat.	x
4th.	Mon.	Derive the work done of single stage with clearance
	Tues	x
	Wed	Derive the work done of single stage without clearance
	Thurs	Derive the work done of two stage without clearance volume
	Fri	numerical solving

	Sal.	*
	Mon	numerical solving.
	Tues	*
5th	Wed	properties of steam, Difference between gas and vapour formation of steam.
	Thurs	representation of p-v, T-s, H-s diagram and T-h diagram.
	Fre	
	Sal	*
	Mon	use of steam table and mollier diagram
	Tues	*
	Wed	use of steam table and mollier diagram
6th	Thurs	flow process of vapour
	Fre	non flow processes of vapour
	Sal	*
	Mon	non-flow processes of vapour. P-V, T-S, H-S, diagram
	Tues	*
7th	Wed	numerical solving using steam table
	Thurs	numerical solving using steam table
	Fre	numerical solving using mollier diagram
	Sat	*
	Mon	numerical solving using mollier diagram
	Tues	*
	Wed	Boiler classification and types
8th	Thurs	Important terms for boiler, comparison between fire tube and water tube boiler
	Fre	Boiler draught
	Sat	*
	Mon	Boiler draught
	Tues	*
	Wed	Boiler mountings

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	THURS	Boiler mountings
	FRI	Boiler mountings
9th	SAT	*
	MON	Boiler mountings and accessories
	TUES	*
10th	WED	Boiler Accessories
	THURS.	Boiler Accessories
	FRI	Carnot cycle with vapour, derivation of W.D and efficiency
	SAT	*
	MON	numerical solving
	TUES	*
11th	WED	Rankine cycle, representation of P-v, T-s diagram and efficiency
	THURS	numerical solving on Rankine cycle
	FRI	Derivation of reheat cycle
	SAT	*
	MON	Derivation of regenerative cycle
	TUES	*
	WED	Fourier's Law, Thermal conductivity Newton's Law of cooling
12th	THURS	Black body radiation, emissivity
	FRI	Stefan Boltzman Law, Kirchhoff's Law
	SAT	*
	MON	Absorptivity, transmissibility
	TUES	*
	WED	numerical solving
13th	THURS.	numerical solving
	FRI	numerical solving
	SAT.	*

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