



Regd No : 2607298

LESSON PLAN REGISTER
DEPARTMENT OF MECHANICAL ENGINEERING
EDSE, BHARSUGUDA
^{4th}/_{6th} SEMESTER, WINTER/SUMMER 2022
SESSION: FROM 10/3/22 TO 30/6/2022
SUBJECT: Power station Engg. / T.E.-II
NAME OF FACULTY: Basudev Mishra.

EXECUTIVE LONG BOUND EXERCISE BOOK


Discipline	Semester	Name of Teaching faculty
Mechanical	4th	Basudev Mishra.
Subject	No. of Days/ Week allotted	Sem. from 10/3/22 to 30/6/2022
Thermal Engg-II		No. of Weeks:-
Week	Class/Day	Theory.
	1st Day x	
	2nd Day	Performance of I.C. engine, mechanical efficiency
1st	3rd Day	Indicated thermal efficiency, Problem solving Brake thermal efficiency, numerical solving
	4th Day	Overall efficiency, mean effective pressure
	5th Day	Specific fuel consumption, mean effective pressure
	6th Day x	
	1st Day	
	2nd Day	air fuel ratio, calorific value of fuel
	3rd Day	numerical solving
2nd	4th Day	numerical solving.
	5th Day.	Air compressor, its function and industrial use of compressed air
	6th Day	
	1st Day	
	2nd Day	Classification of Air compressor, principle of operation.
	3rd Day	Principle of operation, description of its part
3rd	4th Day.	Working principle of air compressor
	5th Day	Working principle of air compressor
	6th Day	
	1st Day	
	2nd Day	Terminology of air compressor
	3rd Day	Volumetric efficiency of compressor
4th	4th Day	Derive the work done of single stage with clearance
	5th Day.	Derive the work done of single stage without clearance
	6th Day	

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Discipline	Semester	Name of Faculty
Mechanical	4th	Rasudev Meshra.
Subject	No. of days/week	No. of weeks
Thermodynamics II	4	Sem. from 13/12/23-23/5/23
Week	Class/Day	Theory
1st	Mon	Performance of Engine, Mechanical efficiency, Indicated thermal efficiency, Preheating
	Tues	Take thermal efficiency, numerical solving
	Wed	Average efficiency, mean effective pressure
	Thurs	mean effective pressure, specific fuel consumption
2nd	Fri	
	Sat	
	Mon	Air fuel ratio, calorific value of fuel
	Tues	
3rd	Wed	Numerical solving
	Thurs	Air compressor, its function and industrial uses of air compressor, classification of air compressor, Principle of operation
	Fri	Principle of operation, description of its parts
	Sat	
4th	Mon	Principle of operation, description of its parts
	Tues	Working principle of air compressor
	Wed	terminology of air compressor
	Thu	volumeetric efficiency of compressor
5th	Fri	Derive the work done of single stage with out clearance
	Sat	Derive the work done of single stage with clearance
	Mon	Derive the work done of single stage with out clearance
	Tues	Derive the work done of two stage with clearance volume
6th	Fri	Numerical solving
	Sat	
	Mon	
	Tues	
7th	Wed	use of steam table and moirre diagram
	Thu	use of steam table and moirre diagram
	Fri	flow process of vapour
	Sat	non-flow process of vapour
8th	Mon	non-flow process of vapour, P-V, T-S, H-S diagram
	Tues	numerical solving using steam table
	Wed	numerical solving using steam table
	Thu	numerical solving using moirre diagram
9th	Fri	numerical solving using moirre diagram
	Sat	
	Mon	numerical solving using moirre diagram
	Tues	Boiler classification and types
10th	Wed	Boiler classification and types
	Thu	Boiler classification and types
	Fri	Boiler draught
	Sat	

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mon.		Boiler draught
Tues		Boiler mountings
Wed		Boiler mountings
Thurs		Boiler mountings and Accessories
Fri		
Sat.		
mon.		Boiler accessories
Tues		
Wed		Boiler accessories
Thurs		Carroll cycle with vapour.
Fri		Derivation of W.D and efficiency
Sat		
Mon		Numerical solving
Tues		
Wed		Rankine cycle, representation of P-V, T-S diagram, efficiency
Thurs		Numerical solving on Rankine cycle
Fri		Numerical solving on Rankine cycle
Sat		
Mon.		Derivation of reheat cycle
Tues		
Wed		Derivation of regenerative cycle.
Thurs		Fourier's Law, Thermal conductivity
Fri		Newtons law of cooling
Sat		Stefan Boltzmann law, Kirchoff's Law.
mon.		Black body radiation, emissivity
Tues		
Wed		Absorptivity, transmissibility
Thurs		Numerical solving
Fri		

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Sat.		
Mon		Numerical solving.
Tues		
Wed		
Thurs		
Fri		
Sat		
mon.		
Tues		
Wed		
Thurs		
Fri		
Sat.		
mon.		
Tues		
Wed		
Thurs		
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Sat.		

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23/5/23

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