SESSIC	N	SUMMER 2	2023											
SEMESTER		6TH												
BRANCH SECTION THEORY NO.		MECHANICAL ENGINEERING  A&B  3												
								SUBJE			ATION EN	GINEERING		
								LECTU	~~~~				MANAGEMENT AND	
LECTU	KEK	Er. NARAYAN KAR & Er CHANDRAKANATA PATHI												
SL NO.	монтн	CHAPTER NO.	DATE	TOPICS TO BE COVERED	NO. OF ACADEMIC DAYS AVAILABLE FOR THE SUBJECT	% COVERED								
	1 100		23.2.23	1.1 Describe sources of energy		9%								
	A NOT S		24.2.23	1.1 Describe sources of energy										
1	Feb-23	1	25.2.23	1.1 Describe sources of energy	5									
	105-25		27.2.23	1.2 Explain concept of Central and Captive power station										
			28.2.23	1.3 Classify power plants										
		1	1.3.23	1.3 Classify power plants		30.00								
	1 1 2 20 2		2.3.23	1.3 Classify power plants										
			3.3.23	2.1 Layout of steam power stations										
			4.3.23	2.1 Layout of steam power stations										
			6.3.23	2.2 Steam power cycle. Explain Carnot vapour power cycle with P-V, T-s diagram and determine thermal efficiency.										
			9.3.23	2.3 Explain Rankine cycle with P-V, T-S & H-s diagram and determine thermal efficiency,										
			10.3.23	2.3 Explain Rankine cycle with P-V, T-S & H-s diagram and determine thermal efficiency,										
	Mar-23		11.3.23	Work done, work ratio, and specific steam Consumption										
				13.3.23	2.4 Solve Simple Problems									
2		23	14.3.23	2.4 Solve Simple Problems	24	43%								
		2	15.3.23	2.5. List of thermal power stations in the state with their capacities										
			16.3.23	2.6 Boiler Accessories: Operation of Air pre heater, Operation of Economiser, Operation Electrostatic precipitator and Operation of super heater. Need of										
				boiler mountings and										
			17.3.23	SUPER HEATER, FEED PUMP										
			18.3.23	ECONOMISER										
		* *	20.3.23	2.7 Draught systems (Natural draught, Forced draught & balanced draught) with their advantages &										
			24.2.22	disadvantages.										
			21.3.23	MECHANICAL DRAUGHT  2.8 Steam prime movers: Advantages &	4 2 2									
			22.3.23	disadvantages of steam turbine										

		23.3.23	Elements of steam turbine, governing of steam		
			turbine. Performance of steam turbine		
			Explain Thermal efficiency		
		25.3.23	Stage efficiency and Gross efficiency		
Mar-23	2	27.3.23	SOLVED NUMERICAL		VINT .
		28.3.23	SOLVED NUMERICAL		
		29.3.23	2.9 Steam condenser: Function of condenser,		
			Classification of condenser.	**************************************	
		31.3.23	function of condenser auxiliaries	1 24 - 24	
-		3.4.23	hot well, condenser extraction pump		
				* *	
	2	3.4.23		4 %	
1		6.4.22		- 31	
		0.4.23	I		
- ×		0.4.22			
		8.4.23			
A			Explain fusion and fission reaction.		
			a a a di		
		10.4.23			
	3	11.4.23		gramma de la composición della	
				15	27%
Apr-23		12.4.23		15	2770
		13.4.23			
		24.4.23	3.7 Selection of site for nuclear power stations.		
				W	
		26.4.23			
		27.4.23			
			power stations: Fuel storage and fuel supply system		
	4				
Acc I		28.4.23			
			system, cooling system, Lubrication system		
		29.4.23	starting system, governing system.		
*		1.5.23			
			stations,4.4 Performance and thermal efficiency of		
	4		diesel electric power stations		
		2.5.23	4.4 Performance and thermal efficiency of diesel		
			electric power stations		
		3.5.23	5.1 State advantages and disadvantages of		
Mav-23			hydroelectric power plant.	11	21%
		4.5.23	5.2 Classify and explain the general arrangement of		
			storage type hydroelectric project and explain its		
	5	10.04	operation.		
800					
		6.5.23			
		6.5.23 8.5.23	5.3 Selection of site of hydel power plant.  5.4 List of hydro power stations with their capacities		
	Mar-23	2 3 Apr-23 4	28.3.23 29.3.23 31.3.23 4.4.23 5.4.23 6.4.23 10.4.23 11.4.23 12.4.23 13.4.23 24.4.23 25.4.23 26.4.23 27.4.23 4  28.4.23 4  29.4.23 1.5.23 4  2.5.23 3.5.23	25.3.23 Stage efficiency and Gross efficiency 27.3.23 SOLVED NUMERICAL 28.3.23 SOLVED NUMERICAL 29.3.23 SOLVED NUMERICAL 29.3.23 function of condenser. 31.3.23 function of condenser. 31.3.23 function of condenser auxiliaries 3.4.23 hot well, condenser extraction pump 4.4.23 air extraction pump, and circulating pump. 5.4.23 spray ponds, 2.11 Selection of site for thermal power stations. 8.4.23 3.1 Classify nuclear fuel (Fissile & fertile material), 3.2 Explain fusion and fission reaction.  10.4.23 3.3 Explain working of nuclear power plants with block diagram 11.4.23 3.5 Compare the nuclear and thermal plants. 13.4.23 3.6 Explain the disposal of nuclear waste. 24.4.23 3.7 Selection of site for nuclear power stations.  25.4.23 3.8 List of nuclear power stations. 25.4.23 4.1 State the advantages and disadvantages of diesel electric power stations: Fuel storage and fuel supply system  4 28.4.23 Fuel injection system, Air supply system, Exhaust system, cooling system, Lubrication system 29.4.23 starting system, governing system. 4 28.4.23 List of or diesel electric power stations of diesel electric power stations at 3.3 Selection of site for diesel electric power stations, 4.4 Performance and thermal efficiency of diesel electric power stations 2.5.23 4.4 Performance and thermal efficiency of diesel electric power stations 2.5.23 4.7 Performance and thermal efficiency of diesel electric power stations 3.5.23 5.1 State advantages and disadvantages of hydroelectric power plant.	Mar-23  24.3.23 Explain Thermal efficiency 25.3.23 Stage efficiency and Gross efficiency 27.3.23 SOLVED NUMERICAL 29.3.23 SOLVED NUMERICAL 29.3.23 2.9 Steam condenser: Function of condenser, Classification of condenser. 31.3.23 function of condenser auxiliaries 3.4.23 hot well, condenser extraction pump 4.4.23 air extraction pump, and circulating pump. 5.4.23 2.10 Cooling Tower: Function and types of cooling tower 6.4.23 spray ponds,2.11 Selection of site for thermal power stations. 8.4.23 3.1 Classify nuclear fuel (Fissile & fertile material),3.2 Explain fusion and fission reaction.  10.4.23 3.3 Explain working of nuclear power plants with block diagram 3.4 Explain the working and construction of nuclear reactor 12.4.23 3.5 Compare the nuclear and thermal plants. 13.4.23 3.6 Explain the disposal of nuclear waste. 24.4.23 3.7 Selection of site for nuclear power stations. 25.4.23 3.8 List of nuclear power stations. 26.4.23 4.1 State the advantages and disadvantages of diesel electric power stations: 27.4.23 4.2 Explain briefly different systems of diesel electric power stations: 27.4.23 fuel injection system, Air supply system, Exhaust system, cooling system, Lubrication system 29.4.23 starting system, governing system. 1.5.23 4.3 Selection of site for diesel electric power stations 2.5.23 4.4 Performance and thermal efficiency of diesel electric power stations 2.5.23 4.4 Performance and thermal efficiency of diesel electric power stations 2.5.23 4.4 Performance and thermal efficiency of diesel electric power stations 2.5.23 5.1 State advantages and disadvantages of hydroelectric power plant.  May-23

4 N		5	9.5.23	5.5 Types of turbines and generation used.5.6 Simple problems		
	May-23	ny-23 6	10.5.23	6.1 Selection of site for gas turbine stations, 6.2 Fuels for gas turbine	11	210/
			11.5.23	6.3 Elements of simple gas turbine power plants		21%
			12.5.23	6.4 Merits, demerits and application of gas turbine power plants.		
			13.5.23	REVISION		
	The state of the	- 1 in	And the second			2 1 1 1 1 1 1

BRIEF SUMMARY OF THE PLAN					
SL. NO.	MONTH	UNIT/CHAPTER TO BE COVERED	% COVERAGE		
1	Feb-23	CH-1	9%		
2	Mar-23	CH-1 & CH-2	27%		
3	Apr-23	CH-2, CH-3 & CH-4	21%		
4	May-23	CH-4, CH-5 & CH-6	2170		

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