

Detailed Teaching Plan

Lecture No	Unit No	Topics to be covered	Planned Date	Execution Date	Remarks
1.	1	Introduction to RAC. different terminology of RAC machines	28/8/24	28/8/24	
2,3		Conventional methods of Refrigeration: ice refrigeration		30/8/24	
4,5		Non-conventional methods. Introduction to H.P, H.E, Refrigerator		31/8/24	
6		Concept of H.P, H.E, Ref. & their COP		03/9/24	Assignment ①
7,8		Reversed Carnot cycle and its representation on PV & TS diagrams		17/9/24	
9		COP of Reversed Carnot cycle. Introduction to Air Ref. cycle		18/9/24	

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10		Bell Coleman Cycle, P-V & T-S diagram, its COP		20/9/24	
11		Application of Air Ref. ⁿ Numericals		21/9/24	
12		Introduction to Vapour Comp. Cycle, its P-h, T-S diagram.		23/9/24	
13		Different conditions in VCRs, & its COP & Multistaging.		24/9/24	Assignment
14	2	Components of VCRs & VARS.		27/9/24	
15		Numerical of VCRs Construction & working of different types of Condensers.		28/9/24 28/9/24	
16, 17		Const. & working of Evaporators.		30/9/24	

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18	3	Construction & Working of Condensers.		1/10/24	
19		Various ^{types} of Expansion devices		4/10/24	
20		Vapour Absorption System & Working of Actual VARs.		8/10/24	
21		Electrolux VARs.		10/10/24	
22		Refrigerants & its types		16/10/24	
23, 24		Properties of Refrigerants.		22/10/24	
25		Nomenclature of Refrigerants.		21/10/24	Assignment
26		Properties of common Refrigerants & Alternatives of CFCs.		6/10/24	

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27	4	Introduction to Psychrometric		8/11/24	
28, 29		Properties of Air & different terminologies		9/11/24	
30		Concept of Humidity		18/11/24	
31		Numericals based on Steam table.		26/11/24	
32		Psychrometric charts & processes.		27/11/24	Assignment
33		Numericals.		28/11/24	
34		Air conditioning systems.		29/11/24	
35, 36		Sensible heat & latent heat		30/11/24	
37, 38		load calculation Numericals.		3/12/24	
39, 40				4/12/24	

Principal
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