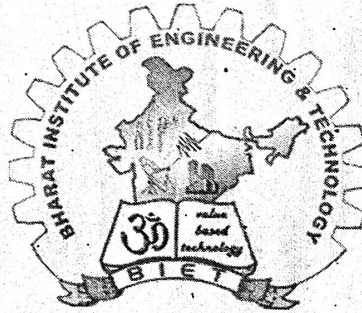


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

**SIVARAM VIHAR, GHATAKESWAR HILLS
MOHADA, BERHAMPUR (GM.)**



STUDENT'S ATTENDANCE REGISTER


Time	9.55.	10.45	9.05		
Day	-10.45	-11.35	9.55		
Mon	 				
Tue					
Wed	 		RAC		
Thu		RAC			
Fri	RAC				
Sat	RAC.				

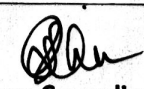
Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	5th sem, Mechanical (Sec-A)
Subject with Code	Refrigeration & Air-Conditioning (TH-4)
Name of the Faculty Member	Er. M. Sushanta Kumar.
No of Weeks: 28	No of Class Allotted/Week : 04

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
August	1st week	03/08/23	Def. of refrigeration & unit of refrigeration.
		04/08/23	Defn of C.O.P. & Refrigerating effect (R.E)
		05/08/23	Principle of working of open and closed air systems of refrigeration.
	2nd week	07/08/23	Calculation of C.O.P. of Bell-Coleman cycle.
		10/08/23	Numericals solved.

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Incl...~~

Signature of the Faculty:  10/08/23

Signature of the Principal/Course Co-ordinator/HOD: 

B.I.E.T., COURSE PLAN

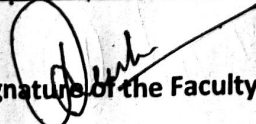
Month	Week	Class Day	Theory/Practical Topic
August	2nd week	11/08/23	<u>Ch-2: Simple Vapour Compression Refrigeration System (10)</u> schematic dia. Vapour Comp. ref. system.
		12/08/23	Cycle with dry sat. vapours after Comp.
	3rd week	14/08/23	Cycle with wet vapours after Comp.
		17/08/23	Cycle with Superheated vapours after Comp.
		18/08/23	Cycle with Superheated vapours before Comp.

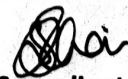
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B.I.E.T., COURSE PLAN

nth	Week	Class Day	Theory/Practical Topic
August	3rd Week	19/08/23	Cycle with subcooling of refrigerant.
	4th Week	21/08/23	Cycles on temp., entropy and pressure enthalpy dia.
		24/08/23	Solve numerical
		25/08/23	Solve numerical
		26/08/23	Solve numerical


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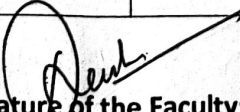
Month	Week	Class Day	Theory/Practical Topic
August	5th week	27/08/23	<p style="text-align: center;"><u>Ch-3: Vapour Absorption</u> <u>Refrigeration System (07)</u></p> <p>Simple vapour absorption ref. system.</p> <p>30/08/23 Raksha Bandhan</p> <p>31/08/23 Practical vapour absorption ref. system.</p>
		28/08/23	
		28/08/23	
September	1st 5th week	01/09/23	<p>COP of an ideal- vapour absorption refrigeration system</p>
		02/09/23	

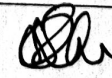
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
September	1st 2nd week	04/09/23	Solve numericals
		07/09/23	Solve numericals
		08/09/23	Solve numericals
		09/09/23	<p><u>Ch-1 : Refrigeration Equipments (08)</u> Refrigerant Compressors. (Working & constructional features)</p>
	2nd week,	11/09/23	Centrifugal Compressor (Working principle)
	14/09/23	Important terms of Compressor.	

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic	
September	3rd week	15/09/23	Hermitically & Semi-hermitically sealed Compressor.	
		16/09/23	Principle of working & Constructional features of air-cooled & water-cooled Condenser.	
	4th week	18/09/23		
			21/09/23	Heat rejection ratio cooling tower & Spray Pond.
			22/09/23	Principle of working & construction of an evaporator Types of an evaporator

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
September	4th week	23/09/23	Ch-5: <u>Refrigerant flow controls, Refrigerants & its Applications</u> (10) Expansion valve & its types.
		25/09/23	Capillary tube, Automatic and thermostatic expansion valve.
	28/09/23	Classification of refrigerants	
	29/09/23	Eid-e-Milad →	
	30/09/23	Desirable properties of an ideal refrigerant.	
October	1st week	02/10/23	Gandhi Jayanti →

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
October	1st week	05/10/23	Designation of refrigerant Thermodynamic properties of refrigerant.
		06/10/23	Chemical properties of refrigerant Commonly used refrigerants Substitute for CFC
		07/10/23	Refrigerants like R-11, R-12, R-22, R-134a, R-717
	2nd week	09/10/23	Application Application of refrigeration.
		12/10/23	Cold storage Dry refrigeration Ice plant
		13/10/23	Water cooler Frost free refrigerator.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
October	2nd week	14/10/23	Mahalaya Ambasayer.
	2nd week	16/10/23	Ch-6: Psychometrics & Comfort Air conditioning Systems (10)
	3rd & 4th week	19/10/23 20/10/23 21/10/23 23/10/23 26/10/23 27/10/23 28/10/23	Psychometric terms Adiabatic Sat. of air by evap. of water Dusherra puja holiday.
	5th week	30/10/23	Psychometric chart
November	1st week	02/11/23	Uses of psychometric chart

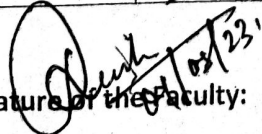
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
November	1st week	03/11/23	Sensible heating & cooling Cooling & dehumidification
		04/11/23	
	2nd week	06/11/23	Heating & humidification Adiabatic cooling with humidification Total heating of a cooling process SHF, BPF
		09/11/23	
		10/11/23	
	3rd week	11/11/23	Adiabatic mixing & numericals
		13/11/23	Solved numericals
		16/11/23	Eff. temp & comfort chart
		17/11/23	<u>Ch-7: Air Conditioning Systems (10)</u>
		18/11/23	Factors affecting comfort Air conditioning
		20/11/23	Equipments used in an air-conditioning
		23/11/23	Classification of air conditioning system
	4th week	24/11/23	} winter air-conditioning system
		25/11/23	
		27/11/23	
5th week	28/11/23	} Summer air-conditioning system	
	29/11/23		
		30/11/23	Solved numericals
		01/12/23	← Karthika Purnima →

Seen
Pradyumna

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