

3rd sem Elect.

BI ARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time	9:05	10:45	12:25
Day	1:55	11:35	01:15
MON			✓
Tue		✓	
THU	✓		
FRI	✓		

~~24P~~
2.

Year/ Session	W/2023	15.9.22 to 22.12.22
Semester & Branch	3rd sem Electrical	
Subject with Code	Th-3, Elements of Mechanical Engg.	
Name of the Faculty Member	Satyamarayan Pradhan	

B.I.E.T. SYLLABUS COVERAGE


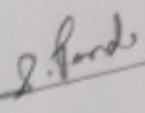




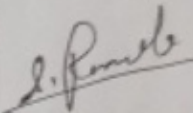



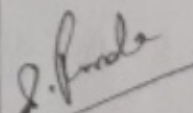





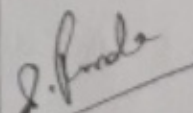


TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
1. THERMODYNAMICS :-			
1.1 State unit of Heat and work, 1 st law of thermodynamics.	15.9.22	<i>[Signature]</i>	} <i>[Signature]</i>
	16.9.22	<i>[Signature]</i>	
1.2. State laws of Perfect gases.	19.9.22	<i>[Signature]</i>	
	20.9.22	<i>[Signature]</i>	
1.3. Determine relationship of specific heat of gases at constant volume and constant pressure.	22.9.22	<i>[Signature]</i>	} <i>[Signature]</i> 12.9.22
	23.9.22	<i>[Signature]</i>	
2. PROPERTIES of STEAM :-			
2.1 Use Steam table for solution of simple problem.	24.9.22	<i>[Signature]</i>	} <i>[Signature]</i>
	27.9.22	<i>[Signature]</i>	
	30.9.22	<i>[Signature]</i>	
2. Explain total heat of wet, dry and super heated steam.	13.10.22	<i>[Signature]</i>	} <i>[Signature]</i>
	14.10.22	<i>[Signature]</i>	

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
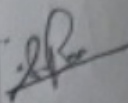




TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
3. <u>BOILERS</u>:-	17.10.22	<i>[Signature]</i>	<i>[Signature]</i>
3.1 State types of boilers.	18.10.22	<i>[Signature]</i>	
	20.10.22	<i>[Signature]</i>	
3.2 Describe Cochran, Babcock Wilcox boiler.	24.10.22	<i>[Signature]</i>	
	25.10.22	<i>[Signature]</i>	
	27.10.22	<i>[Signature]</i>	
3.3 Describe mountings and accessories.	28.10.22	<i>[Signature]</i>	
	31.10.22	<i>[Signature]</i>	
	1.11.22	<i>[Signature]</i>	
4. <u>STEAM ENGINES</u>:-			
4.1. Explain the principle of simple steam engine.	2.11.22	<i>[Signature]</i>	
	4.11.22	<i>[Signature]</i>	
	7.11.22	<i>[Signature]</i>	
4.2. Draw indicator diagram	10.11.22	<i>[Signature]</i>	
	14.11.22	<i>[Signature]</i>	
4.3. Calculate mean effective pressure, IHP and BHP and mechanical efficiency.	14.11.22	<i>[Signature]</i>	
	15.11.22	<i>[Signature]</i>	
	17.11.22	<i>[Signature]</i>	
4.4. Solve simple problem.	18.11.22	<i>[Signature]</i>	
	21.11.22	<i>[Signature]</i>	

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TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
5. <u>STEAM TURBINES</u> :-	22.11.22		
5.1. State types of turbine	24.11.22		
5.2. Differentiate between impulse and reaction turbine.	25.11.22		
	28.11.22		
6. <u>CONDENSER</u> :-	29.11.22		
6.1. Explain the function of condenser.	1.12.22		
6.2. State their types of condenser	2.12.22		
	5.12.22		
7. <u>I.C. ENGINE</u> :-			
7.1. Explain working of two stroke and 4 stroke petrol and Diesel engines.	6.12.22		
	8.12.22		
	9.12.22		
7.2. Differentiate between them	12.12.22		
	13.12.22		
Hydrostatics:-			
1. Describe Properties of fluid.	15.12.22		
	16.12.22		

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TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
8.2. Determine Pressure at a Point,	19.12.22		
Pressure measuring instruments.	20.12.22		
9. HYDROKINETICS :-			
9.1 Deduce equation of continuity of flow.	EXPLANATION		
9.2 Explain energy of flowing liquid.			
9.3 State and explain Bernoulli's theorem.			
10. <u>HYDRAULIC DEVICES AND PNEUMATICS</u>:-			
10.1. Intensifier	EXPLANATION		
10.2 Hydraulic lift			
10.3 Accumulator			
10.4 Hydraulic ram			

Pradyum
12.9.22