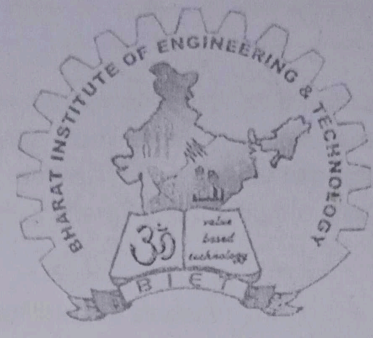


5th Elect

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time	9:05 to 9:55	10:45 to 11:35	12:25 to 1:15		
Day					
MON			✓		
Thu		✓			
Fri		✓			
Sat	✓				

Year/ Session	2022-2023 (winter), 3rd year
Semester & Branch	5th sem, Electrical
Subject with Code	Utilization of Electric Energy Storage (Th-4)
Name of the Faculty Member	Ex. Biswanjit Gouda

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
↳ <u>ELECTROLYTIC PROCESS:</u>			
→ Definition and Basic principle of Electrodeposition.	16/9/22	Bgouda	
→ Important terms regarding Electrolysis.	19/9/22	Bgouda	
→ Faradays laws of Electrolysis.	20/9/22	Bgouda	
→ Definitions of current efficiency, energy efficiency.	23/9/22	Bgouda	
→ principle of Electrodeposition.	24/9/22	Bgouda	
→ Factors affecting the amount of Electro deposition.	26/9/22	Bgouda	
→ Factors governing the electro deposition.	27/9/22	Bgouda	
→ State simple example of extraction of metals.	30/9/22	Bgouda	
→ Application of Electrolysis.			
↳ <u>ELECTRICAL HEATING</u>			
→ Advantages of Electrical Heating.	1/10/22	Bgouda	
→ Mode of Heat transfer and Stefan's law.	14/10/22	Bgouda	
→ principle of Resistance Heating	15/10/22	Bgouda	

Verified.
Pradyum
12.9.22

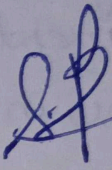
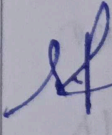
B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
Direct resistance and indirect resistance Heating). → Discuss working principle of direct arc furnace and indirect arc furnace.	17/10/22	<u>Bgouda</u>	<u>S.P.</u>
→ principle of induction heating → working principle of direct core type, vertical core type and indirect core-type induction furnace.	18/10/22	<u>Bgouda</u>	
→ principle of coreless induction furnace and skin effect.	19/10/22	<u>Bgouda</u>	
→ principle of dielectric heating and its application.	20/10/22	<u>Bgouda</u>	<u>S.P.</u>
→ principle of microwave heating and its application.	21/10/22	<u>Bgouda</u>	
→ principle of microwave heating and its application.	22/10/22	<u>Bgouda</u>	
<u>3) PRINCIPLES OF ARC WELDING</u>			
→ Explain principle of arc welding.	27/10/22		
→ Discuss D.C. & A.C. ARC phenomena.	28/10/22	<u>Bgouda</u>	

B.I.E.T.

SYLLABUS COVERAGE

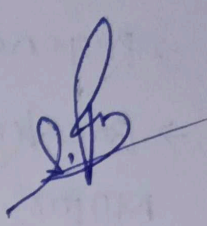
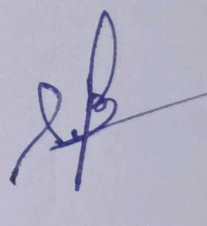
TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
→ D.C. & A.C. Arc welding plants of single and Multi-operation type.	29/10/22	<u>Bgouda</u>	
→ Types of Arc welding.	31/10/22	<u>Bgouda</u>	
→ Explain principles of resistance welding.	1/11/22		
→ Descriptive study of different resistance welding methods	2/11/22	<u>Bgouda</u>	
<u>4. ILLUMINATION:-</u>			
→ Nature of radiation and its spectrum.	3/11/22	<u>Bgouda</u>	
→ Terms used in illumination (Lumen, Luminous intensity, intensity of illumination, MHLP, MSCP, MHSEP, solid angle, Brightness, luminous efficiency)	4/11/22	<u>Bgouda</u>	
→ Explain the inverse square law and cosine law.	5/11/22	<u>Bgouda</u>	
→ Explain polar curves.	7/11/22	<u>Bgouda</u>	
→ Describe light distribution and control. Explain related definitions like maintenance factor and depreciation factors.	9/11/22	<u>Bgouda</u>	
→ Design simple lighting schemes and depreciation factors.	10/11/22		
	11/11/22	<u>Bgouda</u>	

B.I.E.T.

SYLLABUS COVERAGE

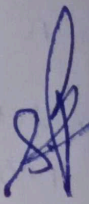
TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
→ Constructional feature and working of filament lamp, effect of variation of voltage on working of filament lamp.	12/11/22	<u>Bgouda</u>	
→ Explain discharge lamp.	14/11/22	<u>Bgouda</u>	}
→ State basic idea about excitation in gas discharge lamps.	15/11/22	<u>Bgouda</u>	
→ State constructional features and operation of fluorescent lamp (CFL and PL2 Lamp).	16/11/22	<u>Bgouda</u>	
→ Sodium vapour lamp.	17/11/22	<u>Bgouda</u>	
→ High pressure Mercury Vapour lamps.	18/11/22	<u>Bgouda</u>	
→ Neon sign lamps.	19/11/22		}
→ High lumen output & low consumption fluorescent lamp.	21/11/22	<u>Bgouda</u>	
<u>INDUSTRIAL DRIVES:</u>			
→ State group and individual drive.	22/11/22	<u>Bgouda</u>	
→ Method of choice of electric drives.	23/11/22	<u>Bgouda</u>	

B.I.E.T. SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
→ Explain starting and running characteristics of DC and AC Motor.	24/11/22	<u>Bgouda</u>	
→ State application of → DC Motor	25/11/22	<u>Bgouda</u>	
→ 3-φ induction motor	26/11/22	<u>Bgouda</u>	
→ 3-φ synchronous motors	28/11/22	<u>Bgouda</u>	
→ single phase induction, series motor, universal motor and repulsion motor.	29/11/22	<u>Bgouda</u>	
<u>ELECTRIC TRACTION</u>			
→ Explain system of traction.	30/11/22	<u>Bgouda</u>	
→ system of track electrification	2/12/22	<u>Bgouda</u>	
→ Running characteristics of DC and AC traction motor.	30/12/22	<u>Bgouda</u>	
→ Explain control of motor	5/12/22	<u>Bgouda</u>	
→ Tapped field control	6/12/22	<u>Bgouda</u>	
→ Rheostatic control	7/12/22	<u>Bgouda</u>	
→ series parallel control	8/12/22	<u>Bgouda</u>	
→ Multi-unit control	9/12/22	<u>Bgouda</u>	
→ Metadyne control	10/12/22	<u>Bgouda</u>	
	12/12/22	<u>Bgouda</u>	

B.I.E.T.

SYLLABUS COVERAGE

TOPIC	DATE	SIGNATURE OF THE FACULTY	SIGNATURE OF THE H.O.D.
→ Explain Breaking of the following types:	13/12/22	<u>Bganda</u>	
→ Regenerative Breaking	17/12/22	<u>Bganda</u>	
→ Breaking with 1- ϕ series motor.	19/12/22	<u>Bganda</u>	
→ Magnetic Breaking.	20/12/22	<u>Bganda</u>	
<p>Inspected <u>12.9.22</u> Verified <u>12.9.22</u></p>			