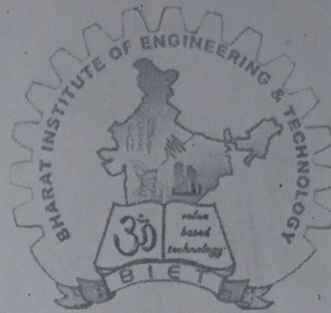


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time Day	9:05 to 9:55				12:25 to 1:15
Mon					
Tue					✓
Wed					
Thu	✓				
Fri					✓
Sat	✓				

Year/ Session : 2023 (winter)	Semester from Date: 01/08/2023 To Date : 30/11/2023
Semester & Branch	5 th Sem & Electrical
Subject with Code	TH-4, UEET
Name of the Faculty Member	Birayaka Kumar Nayak
No of Weeks:	No of Class Allotted/Week :

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
AUG			1. <u>Electrolytic process</u>
		1/8/23	1.1 Definition and basic Principle of Electro Deposition.
		3/8/23	1.2 Important terms regarding electrolysis.
		4/8/23	1.3 Faradays Laws of Electrolysis
		5/8/23	1.4 Definitions of current Efficiency, Energy Efficiency
		8/8/23	1.5 Principle of Electro Deposition
		10/8/23	1.6 Factors affecting the amount of Electro-deposition.
		11/8/23	1.7 Factors governing the electro deposition.
		12/8/23	1.8 State simple Example of Extraction of metals 1.9 Application of Electrolysis.

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 27/8/23

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Signature of the Faculty:

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			2. <u>Electrical Heating</u>
		17/8/23	2.1 Advantages of electrical heating
		18/8/23	2.2 mode of heat transfer and Stephen's Law
		19/8/23	2.3 Principle of Resistance heating (Direct resistance & Indirect resistance)
		22/8/23	2.4 Discuss working principle of direct arc furnace and Indirect arc furnace.
		24/8/23	2.5 Principle of Induction heating.
		25/8/23	2.5.1 Working principle of direct core type, vertical core type and indirect core type Induction furnace 2.5.2 Principle of core less Induction furnace and Skin effect.
		26/8/23	2.6 Principle of dielectric heating and its Application.

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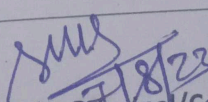
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Sept		29/8/23	2.7 Principle of microwave heating and its Application
		31/8/23	3. <u>Principles of arc welding</u> 3.1 Explain principle of Arc welding
		1/9/23	3.2 Discuss D.C & AC arc Phenomena.
		2/9/23	3.3 Dc and Ac arc welding
		5/9/23	Plants of single and multi-operation type
		7/9/23	3.4 Types of arc welding
		8/9/23	3.5 Explain principles of Resistance welding
		9/9/23 12/9/23	3.6 Descriptive study of different resistance welding methods.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			4. <u>Illumination</u>
		14/9/23	4.1 Nature of Radiation and its Spectrum.
		15/9/23	4.2 Terms used in illumination Lumen, Luminous intensity Intensity of Illumination mHcp, mscp, MHSCP, Solid Angle, Brightness, Luminous efficiency
		16/9/23	4.3 Explain the inverse square law & the cosine law
		21/9/23	4.4 Explain. Polar curves.
		22/9/23	4.5 Describe light distribution and control. Explain related definitions like maintenance factor and depreciation factors.
		23/9/23	
		26/9/23	4.6 Design simple lighting schemes and depreciation factor.
		28/9/23	4.7 Constructional feature and working of filament lamps effect of variation of voltage on working of filament lamps

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9/11/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
Oct		30/9/23	4.8 Explain Discharge Lamps.
		3/10/23	4.9 State Basic idea about Excitation in gas discharges lamps.
		5/10/23	4.10 State constructional features and operation of fluorescent lamp (PL and PLL lamps)
		6/10/23	4.11 Sodium vapor lamps.
		7/10/23	4.12 High pressure mercury vapor lamps.
		10/10/23	4.13 Neon Sign Lamps
		12/10/23	4.14 High lumen output & low consumption fluorescent lamps.

of the Faculty:

B. Singh

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

J. S. Singh
7/10/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
NOV			5. <u>INDUSTRIAL DRIVES</u>
		13/10/23	5.1 State group and Individual drive
		17/10/23 19/10/23	5.2 method of choice of Electric drives
		31/10/23 2/11/23	5.3 Explain starting and running characteristics of DC and AC motors.
		3/11/23	5.4 State Application of 5.4.1 DC motor 5.4.2 3 phase Induction motor 5.4.3 3 phase synchronous motor 5.4.4 Single phase Induction Series motor, universal motor and repulsion motor.
		4/11/23	
		7/11/23	
		9/11/23	
		10/11/23	

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
			6. <u>Electric Traction</u>
		11/11/23	6.1 Explain SYSTEM of traction
		14/11/23	6.2 SYSTEM of track electric fication.
		16/11/23	
		17/11/23	6.3 Running characteristics of DC and AC traction motors.
		18/11/23	
		21/11/23	6.4 Explain control of motor:
		23/11/23 24/11/23	6.4.1 Tapped field control
			6.4.2 Rheostatic control
			6.4.3 Series Parallel control
			6.4.4 Multi-unit control
			6.4.5 metadyne control
		25/11/23	6.5 Explain Braking of following types.
		28/11/23	6.5.1 Regenerative Braking
		29/11/23	6.5.2 Braking with 1-phase series motor.
		30/11/23	6.5.3 magnetic Braking

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