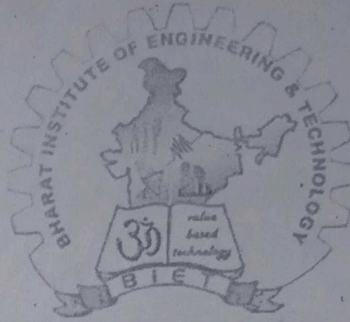


# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## STUDENT'S ATTENDANCE REGISTER

Time Day	9.05 to 9.55	9.55 to 10.45	12.25 to 1.15	2.45 to 3.35	
Mon			EEM		
Tue					
Wed				EEM	
Thu					
Fri	EEM				
Sat		EEM			

Year/ Session : 2023 (winter)

Semester from Date: 01/08/2023 To Date : 30/11/2023

Semester & Branch

3rd sem, Electrical Engg.

Subject with Code

EEM, Th-4

Name of the Faculty Member

En. Sudheepa Kumar Choudhury.

No of Weeks:

No of Class Allotted/Week :

4



# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
<div style="display: flex; justify-content: center; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; text-align: center; font-size: 2em; font-weight: bold; margin: 0 10px;">AUGUST</div> <div style="display: flex; flex-direction: column; justify-content: space-between; width: 20px;"> <div style="border-top: 1px solid black; border-bottom: 1px solid black; width: 100%;"></div> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="border-bottom: 1px solid black; width: 100%;"></div> <div style="border-bottom: 1px solid black; width: 100%;"></div> </div> </div>	<u>1st</u>	2/8/23 4/8/23 5/8/23	<u>Conducting Material Unit-1</u> 1.1 Introduction. 1.2 Resistivity, factors affecting resistivity. 1.3 Classification of conducting materials into low & high resistivity materials.
	<u>2nd</u>	7/8/23 9/8/23 11/8/23 12/8/23	1.4 Low resistivity materials and their applications (Copper, Silver, Gold, Aluminum, steel). 1.5 Stranded conductors. 1.6 Bundle conductors. 1.7 Low resistivity copper alloys.
	<u>3rd</u>	14/8/23 16/8/23 18/8/23 19/8/23	1.8 High resistivity materials and their applications. (Tungsten, carbon, platinum, mercury). 1.9 Superconductivity.
	<u>4th</u>	21/8/23 23/8/23	1.10 Superconducting Materials. 1.11 Application of superconductor materials.

Signature of the Faculty:

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

*S. Richardhury*

7/8/23

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*Seen  
 [Signature]  
 29.7.23*



# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ AUGUST ↓			<u>Semiconductor Materials</u> <u>Unit-2</u>
		25/8/23	<u>2.1</u> Introduction. <u>2.2</u> Semiconductors.
		26/8/23	<u>2.3</u> Electron energy and energy band theory. <u>2.4</u> Excitation of atoms.
	1 <sup>st</sup>	28/8/23	<u>2.5</u> Insulator, Semiconductor and Conductor.
↑ SEPTEMBER ↓	1 <sup>st</sup>	11/9/23	<u>2.6</u> Semiconductor materials.
		2/9/23	<u>2.7</u> Covalent Bonds.
	2 <sup>nd</sup>	4/9/23	<u>2.8</u> Intrinsic semiconductor. <u>2.9</u> Extrinsic Semiconductors.
		8/9/23	<u>2.10</u> N-type materials. <u>2.11</u> P-type materials.

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

*S. K. Choudhury*  
28/8/23

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ SEPTEMBER ↓	<u>3rd</u>	9/9/23	<u>2.12</u> Minority and Majority Carriers.
			<u>2.13</u> Semiconductor Materials.
		11/9/23	<u>2.14</u> Application of semiconductor Materials
			<u>2.14.1</u> Rectifiers.
			<u>2.14.2</u> Thermistor.
		13/9/23	<u>2.14.3</u> Photoconductive cells.
			<u>2.14.4</u> Photovoltaic cells.
			<u>2.14.5</u> varistors.
		15/9/23	<u>2.14.6</u> Transistors.
			<u>2.14.7</u> Hall effect Generators.
		16/9/23	<u>2.14.8</u> Solar power.

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

*S. K. Chaudhary*  
7/8/23

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ SEPTEMBER ↓			<u>Di-electric Materials</u> unit
	<u>4th</u>	<del>18</del> 19/23	<u>4.1</u> Introduction.
		22/9/23	<u>4.2</u> Dielectric constant of Permittivity.
		23/9/23	<u>4.3</u> Polarization.
			<u>4.4</u> Dielectric loss.
	<u>5th</u>	25/9/23	<u>4.5</u> Electric conductivity of Dielectrics and their Break down.
		27/9/23	
		30/9/23	<u>4.6</u> Properties of Dielectrics.
			<u>4.7</u> Application of Dielectrics.

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27/8/23

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ OCTOBER ↓	<u>1st</u>	4/10/23	<u>Magnetic Materials.</u> <u>Unit 5</u> 5.1 Introduction.
		6/10/23	5.2 Classification. 5.2.1 Diamagnetism. 5.2.2 Paramagnetism. 5.2.3 Ferromagnetism.
		7/10/23	5.3 Magnetization curve.
	<u>2nd</u>	9/10/23	5.4 Hysteresis.
		11/10/23	5.5 Eddy currents. 5.6 Curie point.
		13/10/23	5.7 Magnetostriction.
	<u>3rd</u>	16/10/23	5.8 Soft and hard magnetic materials. 5.8.1 Soft magnetic materials.
		18/10/23	5.8.2 Hard magnetic materials.

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

*S. K. Chakravarty*  
7/8/23

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
OCTOBER	5th	30/10/23	<u>Materials for special purposes</u> <u>Units</u> 6.1 Introduction; 6.2 Structural Materials.
	1st	1/11/23	6.3 Protective Materials. 6.3.1 Lead. 6.3.2 Steel tapes, wires and strips.
NOVEMBER		3/11/23	6.4 Other Materials. 6.4.1 Thermocouple Materials
	2nd	4/11/23	6.4.2 Bimetals.
		6/11/23	6.4.3 Soldering Materials.
		8/11/23	6.4.4 Fuse & fuse Materials.
		10/11/23	6.4.5 Dehydrating Materials.

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7/10/23

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
NOVEMBER ↑          ↓	<u>3rd</u>		<u>Insulating Materials. unit-3</u>
		11/11/23	<u>3.1</u> Introduction.
		13/11/23	<u>3.2</u> General properties of Insulating materials.
		15/11/23	<u>3.2.1</u> Electrical properties.
			<u>3.2.2</u> Visual properties.
		17/11/23	<u>3.2.3</u> Mechanical properties.
		<u>3.2.4</u> Thermal properties.	
	18/11/23	<u>3.2.5</u> Chemical properties.	
		<u>3.2.6</u> Ageing.	
	<u>4th</u>	20/11/23	<u>3.3</u> Classification, properties, applications.
		22/11/23	<u>3.3.1</u> Introduction.
		24/11/23	<u>3.3.2</u> Classification of Insulating Materials on the

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S. K. Chakraborty  
11/11/23

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# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
→ NOVEMBER → ←	<del>1st</del>	<del>11/11/23</del>	on the basis of physical, chemical structures.
	<del>2nd</del>	25/11/23	3.4 Insulating Gases. 3.4.1 Introduction.
	<u>5th</u>	29/11/23	3.4.2 Commonly used Insulating gases.
			Seen J. K. Choudhury 29.7.23

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7/10/23

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