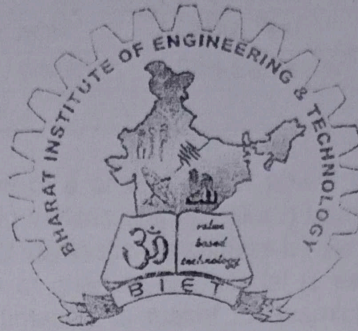


BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

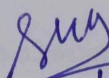
Time	9:05	9:55	10:45		
Day	to 9:55	to 10:45	to 11:35		
MON	← EIE →				
TUE		← EIE →			
WED.	← EIE →				

Year/ Session	3rd year, (2022-23)
Semester & Branch	6th sem, Electrical Engg.
Subject with Code	Electrical Installation & ESTimating. (EIE)
Name of the Faculty Member	Er. Sudeepa K. Chowdhury

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ February ↓	<u>3rd</u>	13/2/23 (2P)	<u>INDIAN ELECTRICITY RULES (Unit-1)</u> Definitions, Amperze, Apparatus, Accessible, Base, cable, circuit, circuit breakers, conductor voltage (Low, medium, high, EH), Live, dead, cut-out, conduit, system, danger, installation, earthing, system, span, Volt, switch gear etc.
		14/2/23 (2P)	
		15/2/23 (2P)	
	<u>4th</u>	20/2/23 (2P)	→ General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41 , 43, 44, 45, 46
		21/2/23 (2P)	→ General conditions relating to supply and use of energy. rule 47, 48, 49, 50, 51, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 67, 68, 70.
		21/2/23 (2P)	→ OH Lines: Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 90, 91

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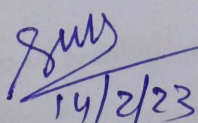

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic (unit 2)
↑ February ↓	<u>4th</u>	22/2/23 (2P)	<u>ELECTRICAL INSTALLATIONS:</u> Electrical installations, domestic, industrial, wiring system, internal distribution of electrical energy, methods of wiring, systems of wiring, wire and cable, conductor materials used in cables.
	<u>5th</u>	27/2/23 (2P)	insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grading of cables, general specifications of cables.
		28/2/23 (2P)	<u>ACCESSORIES:</u> main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse-wire, fuse units. Earthing conductor, earthing. Is specifications regarding earthing of.
← March →	<u>1st</u>	1/3/23 (2P)	

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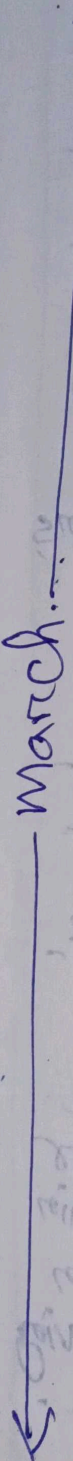
B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
↑ march ↓	1st		electrical installations, points to be earthed, Determination of size of earth wire and earth plate for domestic and industrial installations, material required for GI pipe earthing.
	<u>2nd</u>	6/3/23 (2P)	<u>LIGHTING SCHEME:</u> (units) ~ ~ ~ ~ ~ ASPECTS of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, public lighting installations, street lighting, general rules for wiring
		8/3/23 (2P)	determination of number of points (light, fan, socket outlets), determination of total load, determination of number of subcircuits.
	<u>3rd</u>	13/3/23 (2P)	<u>INTERNAL WIRING:</u> ~ ~ ~ ~ ~ Types of internal wiring Cleat wiring, CTS wiring, wooden casing capping, metal sheathed wiring.

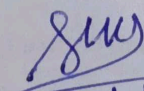
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
March 			Conduit wiring, their advantage and disadvantage comparison and applications.
		14/3/23 (2P)	→ prepare one estimate of materials required for cts wiring for small domestic
		15/3/23 (2P)	installation of one room and one verandah within 25m ² with given light, fan & plug points.
	<u>4th</u>	20/3/23 (2P)	→ prepare one estimate of materials required for conduit wiring for small domestic
		21/3/23 (2P)	installation of one room and one verandah within 25m ² with given light, fan & plug points
		22/3/23 (2P)	→ prepare one estimate of materials required for <u>concealed</u> wiring for <u>small</u> domestic installation of two room and one <u>toilet</u>
	<u>5th</u>	27/3/23 (2P)	bath, kitchen & verandah within 30m ² with given light, fan & plug points.
		28/3/23 (2P)	→ prepare one estimate of materials required for erection of conduct wiring to a small workshop installation
		29/3/23 (2P)	about 30m ² and load within 10KW.

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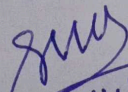

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Month	Week	Class Day	Theory/Practical Topic (Unit-4)
APRIL ↑ ↓	<u>2nd</u>	3/4/23 (2P)	<u>OVER HEAD INSTALLATION:</u> main components of overhead lines, line supports factors governing height of pole, conductor materials, determination of size of conductor for overhead transmission line cross arms, pole brackets and clamps, guys and stays, conductors configurations spacing and clearances, span lengths, overhead line insulators, types of insulators, lightning arresters, danger plates, anti-climbing devices, bird guards, heads of jumpers, tee-offs, guarding of overhead lines.
		4/4/23 (2P)	
		5/4/23 (2P)	→ prepare an estimate of materials required for LT distribution line within load of 100 kW maximum and standard spans involving calculation of the size.
	<u>3rd</u>	10/4/23 (2P)	

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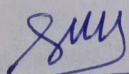

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
April ↑ ↓		11/4/23 (2P)	ob conductor (from conductor chart). current carrying capacity and voltage regulation consideration using ACSR.
		12/4/23 (2P)	→ prepare and estimate of materials required for LT distribution line within load of 100KW maximum and standard spans involving calculation of the size of conductor
	<u>4th</u>	17/4/23 (2P)	(from conductor chart), current carrying capacity and voltage regulation consideration using ACSR.
		18/4/23 (2P)	→ prepare an estimate of materials required for HT distribution line (11KV) within 2 km and load of 2000 KVA maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consideration using ACSR.
		19/4/23 (2P)	

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
APRIL	5th	24/4/23 (2P)	OVER HEAD SERVICE LINES → Components of service line, service line (cables and conductors), bearer wire, lacing rod, Aerial fusc, service support, energy box and meters etc.
		25/4/23 (2P)	
		26/4/23 (2P)	→ prepare and estimate for providing single phase supply of load of 5kw (light fan, socket) to a single stored residential building.
MAY	1st	1/5/23 (2P)	
		2/5/23 (2P)	→ prepare and estimate for providing single phase supply load of 3kw to each block of a double stored building having separate energy meter.
		3/5/23 (2P)	
		8/5/23 (2P)	→ prepare one estimate of materials required for service connection to a factory building with load within 15kw using insulated wire.
MAY	2nd	9/5/23 (2P)	

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
MAY	<u>3rd</u>	10/5/23 (2P)	→ prepare one estimate of materials required for service
		15/5/23 (2P)	Connection to a factory building with load within 15 kW using bare conductor and insulated wire combined.
			<u>ESTIMATING FOR DISTRIBUTION SUBSTATIONS:</u>
			→ prepare one materials estimate for following types of transformer substations.
	<u>4th</u>	16/5/23 (2P)	
17/5/23 (2P)			→ pole mounted substation
29/5/23 (2P)			→ plinth mounted substation.
		23/5/23 (2P)	

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14/2/23.

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14/2/23

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