B. Ele (sec-A)

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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

STUDENT'S ATTENDANCE REGISTER

Time / Day		11.35 – 12.25		09.55 – 10.45	
Mon		Basic Electrical			
Tue					
Wed				Basic Electrical	
Thu					
Fri					
Sat					

Year/ Session : 2023 (winter)	Semester from Date: 16|08|2023 To Date : 11|12|2023
Semester & Branch	Mechanical (1st Sem - Sec "A")
Subject with Code	Basic Electrical (Th. 4ca)
Name of the Faculty Member	Er. K. Srinivas
No of Weeks:	No of Days per Week Class Allotted : 02

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
AUGUST 2023	1	16/08/23	Ch: 1: Fundamentals: 1.1: Concept of current flow. 1.2: Concept of Source & Load. 1.3: State Ohm's law & Concept of Resistance.
	2	21/08/23 23/08/23	1.4: Relation of V, I & R in Series Circuit. 1.5: Relation of V, I & R in Parallel circuit.
	3	28/08/23	1.6: Division of current in parallel Circuit. 1.7: Effect of power in Series & parallel circuit.
SEPT 2023	4	04/09/23	1.8: Kirchhoff's Law. 1.9: Simple problems on Kirchhoff's Law.

Signature of the Faculty: 14/08/23

Seen 14.8.23

Signature of the Principal/Course Co-ordinator/HOD: 14/08/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
SEPTEMBER 2023	5	11/09/23	Ch:2: A.C. Theory: 2.1: Generation of alternating e.m.f.
			2.2: Difference between D.C. & A.C.
		13/09/23	2.3: Define Amplitude, Instantaneous value, Cycle, Time period, frequency, Phase angle, Phase difference.
	6	18/09/23	2.4: State & Explain RMS value, Average value, Amplitude factor & form factor & simple problems
	7	25/09/23	2.5: Represent AC values in Phasor diagrams.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
SEPT 2025	7	27/09/23	2.6: A.C Through pure Resistance, inductance & Capacitance. 27/09 2.7: A.C through RL, RC & RLC Series Circuit.
OCTOBER 2025	8	04/10/23	2.8: Simple problems on RL, RC & RLC Series Circuits. 4/10
	9	09/10/23	2.9: Concept of power & power factor. 09/10 2.10: Impedance triangle and power triangle.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
OCTOBER 2025	9	11/10/25	Ch:3: Generation of Electrical Power: 3.1: Give elementary idea on generation of electricity from → Hydro electric power plant
	10	16/10/25	→ Thermal power plant
		18/10/25	→ Nuclear power plant.

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B.I.E.T., COURSE PLAN

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Month	Week	Class Day	Theory/Practical Topic
OCTOBER 2023	11	30/10/23	Ch:4: Conversion of Electrical Energy: 4.1: Introduction of DC Machine 4.2: Main parts of DC Machine 4.3: Classification of DC Generator.
NOVEMBER 2023		01/11/23	4.4: Classification of DC Motor 4.5: Uses of different types of DC generator & motors.
	12	06/11/23	4.6: Types & uses of 1Ø Induction motor.
		08/11/23	4.7: Concept of Lumen
	13	13/11/23	4.8: Different types of Lamps. Its construction & pridcipse (Filament, fluorescent & LED bulb)
		15/11/23	4.9: Star rating of home appliances (Terminology, Energy efficiency, Star rating Concept)

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
NOVEMBER 2023	14	20/11/23	Ch:5: Wiring & Power Billing 5.1: Types of wiring for domestic installations. 5.2: Layout of household electrical wiring (Single line diagram showing all the important components in the system)
		22/11/23	5.3: Discuss the basic protective devices used in house hold wiring.
	15	29/11/23	5.4: Calculate energy consumed in a small electrical installation

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
DECEMBER 2023	16	04/12/23	Ch:6: Measuring Instruments: 6.1: Introduction to measuring Instruments. 6.2: Torques in instruments. 6.3: Different uses of PMMC type of instruments. → Ammeter → Voltmeter
		06/12/23	6.4: Different uses of MI type of instruments. → Ammeter → Voltmeter
	17	11/12/23	6.5: Draw the connection diagram of A.C/D.C Ammeter, Voltmeter, energy meter and wattmeter. (Single Phase Only)

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