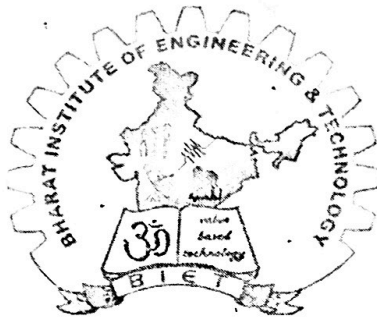


SEC - E (B.E.E)

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time				
Day		11-35 - 12-25		11-35 - 12-25
TUE		Basic Electrical		
SAT				Basic Electrical

Year/ Session : 2022-23 (5)	20.3.23 to 26.06.23
Semester & Branch	2 nd Semester & Electronics & I.T.C.
Subject with Code	Basic Electrical (Th 4.0)
Name of the Faculty Member	Fr. K. Soinevas

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
March 2023	4th	21/03/23	<u>Ch:1:</u> <u>Fundamentals:</u> <u>1.1:</u> Concept of current flow. <u>1.2:</u> Concept of Source & Load. <u>1.3:</u> State Ohm's Law and Concept of resistance.
		25/03/23	<u>1.4:</u> Relation of V, P & R in Series Circuit.
	5th	28/03/23	<u>1.5:</u> Relation of V, P & R in parallel Circuit.
April 2023	2nd	04/04/23	<u>1.6:</u> Division of current in parallel Circuit.
		08/04/23	<u>1.7:</u> Effect of Power in Series & Parallel Circuit. <u>1.8:</u> Kirchhoff's law. <u>1.9:</u> Simple problems on Kirchhoff's Law.

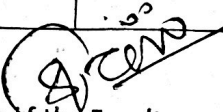
Signature of the Faculty:


Signature of the Principal/Course Co-ordinator/HOD: 17.3.23

Signature of the Principal/Course Co-ordinator/HOD: 19/03/23

B.I.E.T., COURSE PLAN

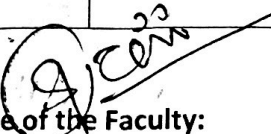
Month	Week	Class Day	Theory/Practical Topic	
April 2023	3 rd	11/04/23	<u>Ch:2:</u> <u>A.C. Theory:</u> <u>2.1:</u> Generation of alternating e.m.f. <u>2.2:</u> Difference between DC & AC <u>2.3:</u> Peak Amplitude, Instantaneous value, Cycle Time Period, Frequency, Phase angle, Phase difference.	
			15/04/23	<u>2.4:</u> State and Explain RMS value, Average value, Amplitude factor & Form factor with simple problems.
			18/04/23	<u>2.5:</u> Represent of AC values in Phasor diagram. <u>2.6:</u> AC Through: → Pure Resistance
	4 th			

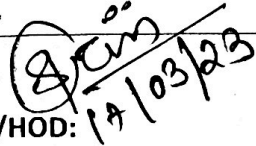

 Signature of the Faculty:


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

B.I.E.T., COURSE PLAN

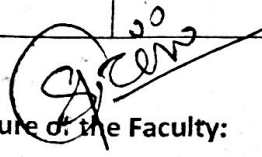
Month	Week	Class Day	Theory/Practical Topic
April 2023	4 th	22/04/23	<ul style="list-style-type: none"> ↷ Pure Inductance ↷ Pure Capacitance <p><u>2.7:</u> AC Through:</p> <ul style="list-style-type: none"> ↷ RL Series Circuit ↷ RC Series Circuit ↷ RLC Series Circuit:
	5 th	25/04/23	<u>2.8:</u> Sample problems on RL, RC & RLC Series Circuits.
		28/04/23	<u>2.9:</u> Concept of Power & Power factor
		28/04/23	<u>2.10:</u> Impedance triangle & Power triangle.

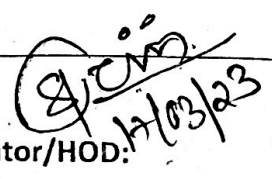
Signature of the Faculty: 

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

B.I.E.T., COURSE PLAN

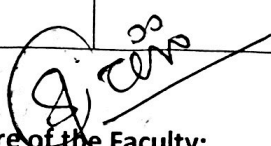
Month	Week	Class Day	Theory/Practical Topic
May 2023	1 st	02/05/23	<u>Ch: 3:</u> <u>Generation of Electrical Power:</u> Give elementary idea on generation of electricity from ↳ Thermal Power station ↳ Hydro Power station ↳ Nuclear Power station with block diagram.
		06/05/23	
		09/05/23	
	2 nd	13/05/23	<u>Ch: 4:</u> <u>Conversion of Electrical Energy:</u> <u>4.1:</u> Introduction of DC Machines <u>4.2:</u> Main parts of DC Machines. <u>4.3:</u> Classification of DC Generator <u>4.4:</u> Classification of DC Motor.

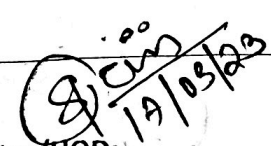
Signature of the Faculty: 

Signature of the Principal/Course Co-ordinator/HOD:  17/03/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
May 2023	3 rd	16/05/23	<p><u>4.5</u>: Uses of different types of DC generators & motors.</p> <p><u>4.6</u>: Types and uses of single phase induction motor.</p>
		20/05/23	<u>4.7</u> : Concept of Turnen.
		23/05/23	<u>4.8</u> : Different types of Lamps, its construction and principle.
	4 th	27/05/23	<p><u>4.9</u>: Star rating of home appliances.</p> <ul style="list-style-type: none"> ↳ Terminology ↳ Energy Efficiency ↳ Star rating Concept.


 Signature of the Faculty:

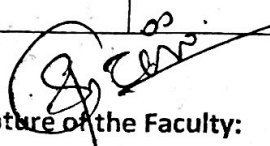

 Signature of the Principal/Course Co-ordinator/HOD:

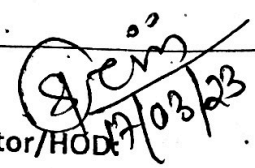
Signature of the Faculty:

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

B.I.E.T., COURSE PLAN

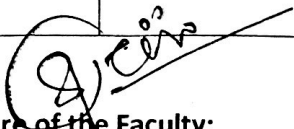
Month	Week	Class Day	Theory/Practical Topic
May 2023	5th	30/05/23	<p>Ch: 5: <u>Wiring and Power Billing:</u> <u>S-1:</u> Types of wiring for domestic installations.</p>
June 2023	1st	02/06/23	<p><u>S-2:</u> Layout of household electrical wiring Single line diagram showing all the important component in the system.</p>
	2nd	06/06/23	<p><u>S-3:</u> List out the basic protective devices used in house hold wiring.</p>
		10/06/23	<p><u>S-4:</u> Calculate energy consumed in small electrical installation.</p>

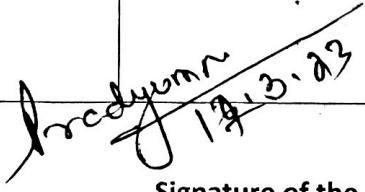
Signature of the Faculty: 

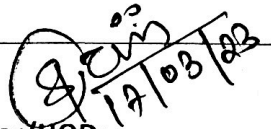
Signature of the Principal/Course Co-ordinator/HOD:  17/06/23

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
June 2023	2 nd	13/06/23	<u>Ch:6:</u> <u>Measuring Instruments:</u> <u>6.1:</u> Introduction to measuring instruments.
		17/06/23	<u>6.2:</u> Torques in instruments. <u>6.3:</u> Different uses of PMMC type instruments. ↳ Ammeter ↳ Voltmeter
		24/06/23	<u>6.4:</u> Different uses of MI type of instruments. ↳ Ammeter ↳ Voltmeter <u>6.5:</u> Draw the connection diagram of A.C/D.C Ammeter, Voltmeter, energy meter and wattmeter. (10 only)


 Signature of the Faculty:


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


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