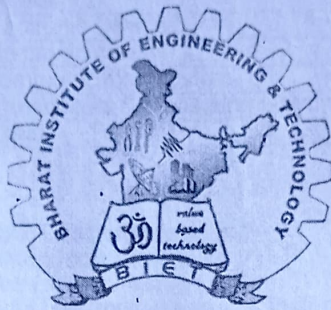


Sec-D (B04ETC)

# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



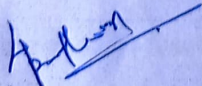
## STUDENT'S ATTENDANCE REGISTER

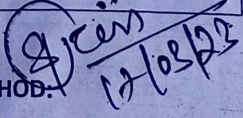
Time	10.45	11.35			
Day	11.35	12.25			
MON	✓				
WED		✓			

Year/ Session	1 <sup>ST</sup> YEAR/ 22-23 SUMMER.
Semester & Branch	2 <sup>ND</sup> SEMESTER & ELECTRICAL ENGG. (SEC-D)
Subject with Code	BASIC ELECTRONICS, TH-4(b)
Name of the Faculty Member	LINGARAT IPRAHDAN.

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

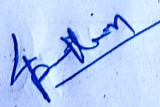
Month	Week	Class Day	Theory/Practical Topic
M			<u>UNIT-1</u>
			<u>ELECTRONIC DEVICES</u>
A	4th	20.3.23	1.1) Basic Concept of electronics and its application.
		22.3.23	1.2) Basic Concept of Electron Emission and its types.
R		27.3.23	1.3) classification of material according to electrical conductivity (conductor, semiconductor & Insulator) with respect to energy band diagram only.
C	5th	29.3.23	1.4) Difference between Intrinsic & Extrinsic Semiconductor.
H			1.5) Difference between vacuum tube & semiconductor.
A	1st	3.4.23	1.6) Principle of working and use of PN Junction diode, Zener diode and Light-Emitting diode (LED).
P		5.4.23	
R			
L			

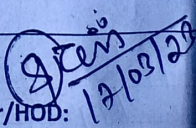
Signature of the Faculty: 

Signature of the Principal/Course Co-ordinator/HOD:  12/03/23

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

Month	Week	Class Day	Theory/Practical Topic
A	2nd	10.4.23	1.1) Integrated Circuits (I.C) & its advantages.
		12.4.23	2.1) Rectifier and its uses.
P	3rd	17.4.23	2.2) Principles of working of different types of rectifiers with their merits and demerits.
		19.4.23	2.3) Functions of filter and classification of simple filter circuit. (Capacitor, choke input and $\pi$ ).
I	4th	24.4.23	2.4) Working of D.C power supply system (unregulated) with help of block diagrams only.

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12/03/23

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

Month	Week	Class Day	Theory/Practical Topic
A P B I L	4th	26.4.23	2.5) Transistor, different types of Transistor Configuration and static output and input-current-gain relationships in CE, CB and CC Configuration. (NO Mathematical derivation).
M	1st	1.5.23 3.5.23	2.6) Need of biasing and explain different types of biasing with circuit diagram. (Only CE Configuration).
A	2nd	8.5.23	2.7) Amplifiers (Concept), working principles of single phase CE amplifier.
Y		10.5.23	2.8) Electronic Oscillator and its classification. 2.9) Working of basic oscillator with different elements through simple block diagram.

Signature of the Faculty:

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

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19/05/23

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

Month	Week	Class Day	Theory/Practical Topic
			<u>UNIT-3</u>
M		15.5.23	COMMUNICATION SYSTEM 3.1) Basic Communication system. (concept and explanation with help of Block diagram).
	3rd	17.5.23	3.2) Concept of Modulation and demodulation, difference between them.
	4th	22.5.23	3.3) Different types of Modulation (AM, FM & PM)
		24.5.23	based on signal and carrier wave and modulated wave.
	5th	29.5.23	(only concept, no mathematical derivation.)
Y			

Signature of the Faculty:

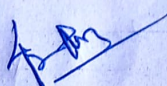
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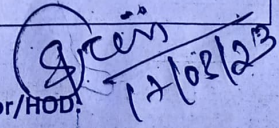
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12/03/23

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

Month	Week	Class Day	Theory/Practical Topic
M			<u>UNIT-4</u>
A	5th	31.5.23	TRANSducers AND MEASURING INSTRUMENTS 4.1) Concept of Transducer and Sensor with their difference.
Y			
J	2nd	5.6.23	4.2) Different type of Transducers & Concept of Active and Passive Transducer.
U		7.6.23	4.3) Working principle of photo-emissive, photoconductive, photovoltaic transducer and its application.
	3rd	12.6.23	
Z	4th	19.6.23	4.4) Multimeter and its applications. 4.5) Analog and Digital Multimeter and their differences.
E		21.6.23	4.6) Working principle of Multimeter with basic block diagram.

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
J O T A	5th	26.6.23	4.7) CRO, working principle of CRO with simple block diagram.

Signature of the Faculty: *[Signature]*

Signature of the Principal/Course Co-ordinator/HOD: *[Signature]*  
12/08/23