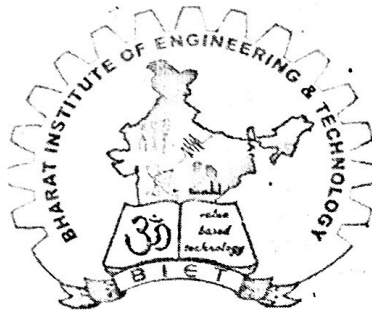


B.E.T.C. - (Sec-A)

BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



STUDENT'S ATTENDANCE REGISTER

Time	9.55				
Day	10.45				
Mon					
Tue	✓				
Wed					
Thu					
Fri					
Sat	✓				

Year/ Session : 2023 (winter)	Semester from Date: 16.08.23 To Date: 11.12.23
Semester & Branch	1st Semester & Mechanical Engg. (Sec-A)
Subject with Code	Basic Electronics (Th-4(b))
Name of the Faculty Member	Lingaraj Pradhan
No of Weeks:	No of Days per Week Class Allotted : 02 Periode

B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
A			<u>UNIT-1</u> <u>ELECTRONIC DEVICES</u>
U	3rd	19.8.23	1.1) Basic Concept of electronics and its application.
G		22.8.23	1.2) Basic Concept of Electron Emission and its types.
U	4th	26.8.23	1.3) Classification of Material according to electrical conductivity (conductor, Semiconductor & insulator) with respect to energy band diagram.
S	5th	29.8.23	1.4) Difference between intrinsic & Extrinsic Semiconductor.
T			1.5) Difference between Vacuum tube & Semiconductor.

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B.I.E.T. COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
S	1st	2.9.23	1.6) Principle of working and use of PN Junction diode, Zener diode and light-emitting diode (LED).
E	2nd	5.9.23	
P.		9.9.23	1.7) Integrated Circuits (I.C) and its advantages.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
S E P T E M B E R	3rd	12.9.23	<u>UNIT-2</u> <u>ELECTRONIC CIRCUITS</u>
		16.9.23	2.1) Rectifier and its cells.
		16.9.23	2.2) Principles of working of different types of Rectifiers with their Merits and demerits.
	4th	23.9.23	2.3) Functions of Filter and classification simple Filter circuit (capacitor, choke input and π).
	5th	26.9.23	2.4) Working of D.C power supply system (unregulated) with help of block diagrams only.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
S E P.	5th	30.9.23	2.5) Transistor, different types of transistor configuration and static output and input-current gain relationship in CE, CB and CC configuration. (No Mathematical derivation).
O C T O B	1st	3.10.23 7.10.23	2.6) Need of bearing and explain different types of bearing with circuit diagram. (only CE configuration).
B E R	2nd	10.10.23	2.7) Amplifier (concept), working principle of single phase CE amplifier.

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
O			2.8) Electronic Oscillator and its classification. 2.9) Working of basic oscillator with different elements through simple block diagram.
C	3rd	17.10.23	
T			
O			
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
O			<u>UNIT-3</u>
C	5th	31.10.22	3.1) <u>Basic Communication system</u> (Concept & explanation with help of Block diagram).
T			
N	1st	04.11.22	3.2) Concept of Modulation and Demodulation, Difference between them.
O			
V			
E	2nd	7.11.22	3.3) Different types of Modulation (AM, FM & PM) based on signal, carrier wave and Modulated wave (Only Concept, no Mathematical derivation).
M		11.11.22	
B			
E			
R			

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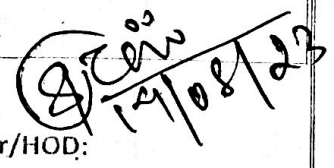
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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
N			<u>UNIT-4</u>
O			TRANSDUCERS AND MEASURING INSTRUMENTS
V	3rd	14.11.23	4.1) Concept of Transducer and sensor with their differences.
E		15.11.23	4.2) Different type of Transducer & concept of active and passive transducer.
M		21.11.23	4.3) Working principle of photo emissive, photoconductive, photovoltaic transducer and its application.
B	4th	25.11.23	
E			
R			

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B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
N O V.	5th	28.11.23	4.4) Multimeter and its applications.
			4.5) Analog and Digital Multimeter and their differences.
D E C	1st	2.12.23	4.6) Working principle of Multimeter with basic block diagram.
E M B F R	2nd	9.12.23	4.7) CRO, working principle of CRO with simple block diagram.

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