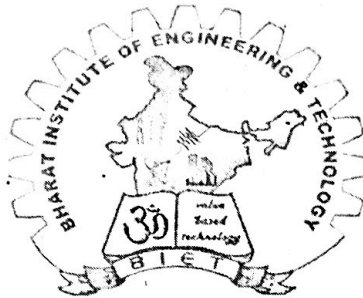


Basic Electronics (Sec B)

# BHARAT INSTITUTE OF ENGINEERING & TECHNOLOGY

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



## STUDENT'S ATTENDANCE REGISTER

Time	9:05	10:45			
Day	9:55	11:35			
Mon		B.ETC			
Tue					
Wed					
Thu	B.ETC				
Fri					
Sat					

Year/ Session : 2023 (winter)	Semester from Date: 16-08-23 To Date : 11-12-23
Semester & Branch	1 <sup>ST</sup> SEMESTER, MECHANICAL [SEC-B]
Subject with Code	BASIC ELECTRONICS
Name of the Faculty Member	PURNA CH. NAHAK
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	3 <sup>rd</sup>	17/08/23	1. <u>ELECTRONIC DEVICES :-&gt;</u> 1.1. Basic concept of Electronics & its application.
		21/08/23	1.2. Basic concept of Electron Emission & its types.
	4 <sup>th</sup>	24/08/23 & 28/08/23	1.3. Classification of material according to electrical conductivity (conductor, semiconductor & Insulator) with respect to energy band diagram only.
		31/08/23	1.4. Difference between Intrinsic & Extrinsic semiconductor.

Signature of the Faculty:

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

*[Signature]* 14.8.23  
*[Signature]* 17/08/23

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

Month	Week	Class Day	Theory/Practical Topic
AUGUST	1 <sup>st</sup>	04/09/23	1.6. Principle of working & use of PN junction diode, Zener diode & Light emitting diode (LED).
		07/09/23	
SEPTEMBER	2 <sup>nd</sup>	11/09/23	1.7. Integrated Circuits (I.C) & its advantages.
		14/09/23	2. <u>ELECTRONIC CIRCUITS</u>
	3 <sup>rd</sup>	18/09/23	2.1. Rectifier & its uses. 2.2. Principles of working of different types of rectifiers with their merits & demerits.

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

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14/08/23

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

Month	Week	Class Day	Theory/Practical Topic
SEPTEMBER	4 <sup>th</sup>	21/09/23	2.3. Functions of filters and classification of simple filter circuit (capacitor, choke input & $\pi$ ).
		25/09/23	
		28/09/23	2.4. working of DC power supply system (unregulated) with help of block diagrams only.
OCTOBER	2 <sup>nd</sup>	05/10/23	2.5. Transistor, different types of transistor configuration and state output and input current gain relationship in CE, CB & CC configuration (no mathematical derivation).
		09/10/23	

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11/08/23

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

Month	Week	Class Day	Theory/Practical Topic
OCTOBER	3 <sup>rd</sup>	16/10/23	2.6. Need of biasing and explain different types of biasing with circuit diagram (only CE configuration)
	4 <sup>th</sup>	30/10/23	2.7. Amplifiers (concept), working principles of single phase CE amplifier
NOVEMBER	1 <sup>st</sup>	02/11/23	2.8. Electronic Oscillator and its classification.
			2.9. Working of Basic Oscillator with different elements through simple block diagram.

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

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 17/08/23

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

Month	Week	Class Day	Theory/Practical Topic
NOVEMBER	2 <sup>nd</sup>	06/11/23	<p>3. <u>COMMUNICATION SYSTEM:-</u></p> <p>3.1. Basic communication system (concept &amp; explanation with help of block diagram)</p>
		09/11/23	3.2. Concept of modulation and demodulation, difference between them;
		13/11/23	3.3. Different types of modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, no mathematical derivation)

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17/08/23

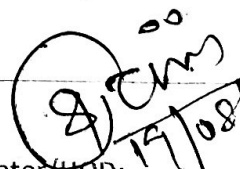
# B.I.E.T., COURSE PLAN

Month	Week	Class Day	Theory/Practical Topic
NOVEMBER	3 <sup>rd</sup>		4. <u>TRANSDUCERS AND MEASURING INSTRUMENTS</u>
		16/11/23	4.1. concept of transducer & sensor with their differences.
	4 <sup>th</sup>	20/11/23	4.2. Different type of transducers & concept of active and passive transducer.
		23/11/23 27/11/23	4.3. Working principle of photo emissive, photoconductive, photo-voltaic transducer and its application.

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

  
 19/08/22

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

Month	Week	Class Day	Theory/Practical Topic
DECEMBER	1 <sup>st</sup>	04/12/23	4.4. multimeter & its applications.
			4.5. Analog & digital multimeter & their differences.
	07/12/23	4.6. working principle of multimeter with basic block diagram.	
	2 <sup>nd</sup>	11/12/23	4.7. CRO, working principle of CRO with simple block diagram.

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*Indyone*  
 14.8.23

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 14/08/23

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