

**BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK**  
**ACADEMIC LESSON PLAN**

Section: I

Subject :Basic Electronics Engineering(TH-4(b))

Discipline: <b>AE&amp;I/ETC ENGG.</b>	Semester :1 <sup>st</sup>	Name of the Teaching Faculty: <b>MIHIR KUMAR MOHANTY, Sr.LECTURER IN ETC</b>
Subject: <b>BASIC ELECTRONICS</b>	NO. OF DAYS/WEEK CLASS ALLOTTED:02 PERIODS ( MON, FRI ) 01 PERIOD EACH	SEMESTER FROM:- 25-OCT-2021 TO 31 -JAN-2022
Week No.	Class Day	Theory Topics
W1	25-10-2021	<b>ELECTRONIC DEVICES</b> 1.1 Basic concept of Electronics & its applications.
	29-10-2021	1.2 Basic concept of Electron Emission and its type.
W2	01-11-2021	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.
	05-11-2021	1.4 Intrinsic & Extrinsic Semiconductor.
W3	08-11-2021	1.5 Difference between vacuum tube & semiconductor.
	12-11-2021	1.6 Principle of working and use of PN junction diode, Zener diode, Light Emitting Diode (LED)
W4	15-11-2021	1.7 Basic concept of integrated circuits (I.C) & its uses.
W5	22-11-2021	<b>ELECTRONIC CIRCUITS</b> 2.1 Define Rectifier & its use.
	26-11-2021	2.2 Principles of working of different types of Rectifiers and their merits and demerits
W6	29-11-2021	2.3 Functions of filters and classification of simple Filter circuit
	03-12-2021	2.4 Working of D.C power supply system (unregulated) with help of block diagrams only
W7	06-12-2021	2.5 Transistor, Different types of Transistor Configuration and state output and input current gain relationship in CE, CB and CC configuration ( No mathematical derivation)
	10-12-2021	2.6 Need of biasing and explain different types of biasing with circuit diagram. (only CE configuration)
W8	13-12-2021	2.7 Amplifiers (concept) , working principles of single phase CE amplifier
	17-12-2021	2.8 Electronic Oscillator and its classification
W9	20-12-2021	<b>COMMUNICATION SYSTEM</b> 3.1 Basic communication system (concept & explanation with help of Block diagram)

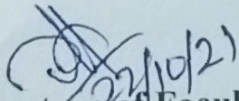



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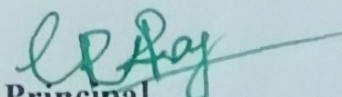
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	24-12-2021	3.2 Concept of Modulation and Demodulation, Difference between them
W10	27-12-2021	3.3 Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, No mathematical Derivation)
	31-12-2021	
W11	03-01-2022	<b>TRANSDUCERS AND MEASURING INSTRUMENTS</b> 4.1 Concept of Transducer and Primary sensor and differences.
	07-01-2022	4.2 Different type of Transducers & concept of active and passive transducer
W12	10-01-2022	4.3 Working principle of photo emissive, photoconductive,
		Working principle Photovoltaic transducer and its application.
W13	17-01-2022	
	21-01-2022	4.4 Multimeter, types and applications
W14	24-01-2022	4.5 Analog and digital multimeter and their differences
	28-01-2022	4.6 Working principle of Multimeter with basic block diagram .
W15	31-01-2022	4.7 CRO , Block diagram of CRO and applications of CRO

  
Signature of Faculty

  
HOD, E&TC

  
Principal