BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK
ACADEMIC LESSON PLAN

Section: E **Subject :Basic Electronics Engineering(TH-4(b))**

Discipline: ELECT ENGG.	Semester :1st	Name of the Teaching Faculty: MIHIR KUMAR MOHANTY,Sr.LECTURER IN ETC
Subject: BASIC ELECTRONICS	NO. OF DAYS/WEEK CLASS ALLOTTED:02 PERIODS (WED, THU) 01 PERIOD EACH	SEMESTER FROM:– 25-OCT-2021 TO 31 –JAN-2022
Week No.	**Class Day**	**Theory Topics**
W1	27-10-2021	**ELECTRONIC DEVICES** 1.1 Basic concept of Electronics& its applications.
	28-10-2021	1.2 Basic concept of ElectronEmission and its type.
W2	03-11-2021	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.
W3	10-11-2021	1.4 Intrinsic & Extrinsic Semiconductor.
	11-11-2021	1.5 Difference between vacuum tube & semiconductor.
W4	17-11-2021	1.6 Principle of working and use of PN junction diode, Zener diode, Light Emitting Diode (LED)
	18-11-2021	1.7 Basic concept of integrated circuits (I.C) & its uses.
W5	24-11-2021	**ELECTRONIC CIRCUITS** 2.1 Define Rectifier & its use.
	25-11-2021	2.2 Principles of working of different types of Rectifiers and their merits and demerits
W6	01-12-2021	2.3 Functions of filters and classification of simple Filter circuit
	02-12-2021	2.4 Working of D.C power supply system (unregulated) with help of block diagrams only
W7	08-12-2021	2.5 Transistor, Different types of Transistor Configuration and state output and inputcurrent gain relationship in CE,CB and CC configuration(No mathematical derivation)
	09-12-2021	2.6 Need of biasing and explain different types of biasing with circuit diagram. (only CE configuration)
W8	15-12-2021	2.7 Amplifiers(concept) , working principles of single phase CE amplifier Amplifier
	16-12-2021	2.8 Electronic Oscillator and its classification
W9	22-12-2021	**COMMUNICATION SYSTEM** 3.1 Basic communication system (concept & explanation with

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		help of Block diagram)
	23-12-2021	3.2 Concept of Modulation and Demodulation, Difference between them
W10	29-12-2021 30-12-2021	3.3 Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, No mathematical Derivation)
W11	05-01-2022	**TRANSDUCERS AND MEASURING INSTRUMENTS** 4.1 Concept of Transducer and Primary sensor and differences.
	06-01-2022	4.2 Different type of Transducers & concept of active and passive transducer
W12	12-01-2022	4.3 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application.
	13-01-2022	4.4 Multimeter, types and applications
W13	19-01-2022	4.5 Analog and digital multimeter and their differences
	20-01-2022	4.6 Working principle of Multimeter with basic block diagram .
W14	27-01-2022	4.7 CRO , Block diagram of CRO and applications of CRO

22/10/21
Signature of Faculty

HOD, E&TC

Principal