BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK
ACADEMIC LESSON PLAN

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

Discipline CIVIL	Semester :2ND Section-B	Name of the Teaching Faculty: MIHIR KUMAR MOHANTY, E&TC
Subject: BASIC ELECTRONICS ENGG.	NO. OF DAYS/WEEK CLASS ALLOTTED:02 (MON , FRI) 01 PERIOD EACH	SEMESTER FROM :- 20.03.2023 TO 24.06.2023 No of weeks : 14
Week No.	**Class Day**	**Theory Topics**
W1	20-03-2023	**UNIT-1 : ELECTRONIC DEVICES** 1.1 Basic concept of Electronics& its applications.
	24-03-2023	1.2 Basic concept of ElectronEmission and its type.
W2	27-03-2023	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.
	31-03-2023	1.4 Intrinsic & Extrinsic Semiconductor.
W3	03-04-2023	1.5 Difference between vacuum tube & semiconductor.
W4	03-04-2023	1.6 Principle of working and use of PN junction diode, Zener diode, Light Emitting Diode (LED)
W5	17-04-2023	1.7 Basic concept of integrated circuits (I.C) & its uses.
	21-04-2023	**UNIT-2 : ELECTRONIC CIRCUITS** 2.1 Define Rectifier & its use. 2.2 Principles of working of different types of Rectifiers and their merits and demerits
W6	24-04-2023	2.3 Functions of filters and classification of simple Filter circuit
	28-04-2023	2.4 Working of D.C power supply system (unregulated) with help of block diagrams only
W7	01-05-2023	2.5 Transistor, Different types of Transistor Configuration and state output and inputcurrent gain relationship in CE,CB and CC configuration(No mathematical derivation)
W8	08-05-2023	2.6 Need of biasing and explain different types of biasing with circuit diagram. (only CE configuration)
	12-05-2023	2.7 Amplifiers(concept) , working principles of single phase CE amplifier Amplifier

BHUBANANANDA ORISSA SCHOOL OF ENGINEERING, CUTTACK
ACADEMIC LESSON PLAN

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

W9	15-05-2023	2.8 Electronic Oscillator and its classification
	19-05-2023	**UNIT-3 : COMMUNICATION SYSTEM** 3.1 Basic communication system (concept & explanation with help of Block diagram) **CLASS TEST-I**
W10	22-05-2023	3.2 Concept of Modulation and Demodulation, Difference between them
	26-05-2023	3.3 Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, No mathematical Derivation)
W11	29-05-2023	**UNIT-4 : TRANSDUCERS AND MEASURING INSTRUMENTS** 4.1 Concept of Transducer and Primary sensor and differences.
	02-06-2023	4.2 Different type of Transducers & concept of active and passive transducer
W12	05-06-2023	4.3 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application.
	09-06-2023	
W13	12-06-2023	4.4 Multimeter, types and applications
	16-06-2023	4.5 Analog and digital multimeter and their differences
W14	19-06-2023	4.6 Working principle of Multimeter with basic block diagram .
	23-06-2023	4.7 CRO , Block diagram of CRO and applications of CRO **CLASS TEST-II**

Mehir Kumar Mohanty.
Signature of Faculty

18/02/2023
HOD, E&TC
Sr. Lecturer
Electronics & Telecomm. Engg.
BOSE, Cuttack

ACADEMIC COORDINATOR

18/2
Principal