Discipline :- MECHANICAL	Semester:- 2nd	Name of the Teaching Faculty:- LINCOLN MOHANTY
Subject:- BASIC ELECTRONIC ENGINEERING (TH.04(b))	No of Days/per Week Class Allotted :- 02	Semester From:- 28/04/2021 To:- 19/08/2021

Week	Class Day	Theory
1ST	1	**ELECTRONIC DEVICES**
	2	Basic Concept of Electronics .....Electron Emission & different types
2ND	1	Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.
	2	Intrinsic & Extrinsic Semiconductor
3RD	1	Difference between vacuum tube & semiconductor.
	2	Principle of working and use of PN junction diode,
4TH	1	Zener diode and Light Emitting Diode (LED
	2	Basic concept of manufacturing integrated circuits (I.C) & its uses.
5TH	1	**ELECTRONIC CIRCUITS**
	2	Define Rectifier & its use .....Principles of working of different types of Rectifiers and their merits and demerits
6TH	1	Functions of filters and classification of filter circuits
	2	D.C power supply system with help of block diagrams only
7TH	1	Different types of Transistor Configuration and state output and input current gain relationship in CE,CB and CC configuration.
	2	Need of biasing and different types of biasing with circuit diagram.(CE configuration)
8TH	1	Amplifiers and how amplification of signal is achieved by the help of transistor
	2	Working of a single phase CE Amplifier.
9TH	1	Basic function of Oscillation
	2	Essentials of Transistor oscillators and its classifications
10TH	1	**COMMUNICATION SYSTEM**
	2	Basic communication system with help of Block diagram, Modulation, Need of Modulation,
11TH	1	Different types of Modulation (AM, FM & PM)
	2	Amplitude Modulation & Frequency Modulation (Signal, Carrier Wave & Modulated Wave) (No Mathematical Derivation.), Demodulation.
12TH	1	**TRANSDUCERS AND MEASURING INSTRUMENTS**
	2	Concept of Transducer and sensor, Different type of Transducers & concept of active and passive transducer
13TH	1	Working principle of photo emissive, photoconductive, photovoltaic transducer and its application
	2	Multimeter, types and applications, Analog Digital Multimeter and their difference
14TH	1	, Working Principle of Multimeter,
	2	CRO , Block diagram of CRO and applications of CRO

28/04/21
Teaching Faculty

Principal
Government Polytechnic, Puri

28-04-21
Academic Co-ordinator