

LESSON PLAN 2023(Winter)		
Dicipline: ELECTRICAL	Semester :1th Sem	Name of the Teaching faculty: Sudhansu Sekhar Munda Lect in E &TC
Subject: BASIC ELECTRONICS .	No.of days/per week classalloted:2p(55Minutes) /week	Semester From date: 25 Oct 2022 to Date: 31 Jan 2023 No . Of Weeks: -
Week	Class Day	Theory Topics
25 Oct to 31 Oct	1st	1. ELECTRONIC DEVICES 1.1 Basic Concept of Electronics and its application.
	2nd	1.2 Basic Concept of Electron Emission & its types.
1 Nov to 7 Nov	1st	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only
	2nd	1.4 Difference between Intrinsic & Extrinsic Semiconductor.
8 Nov to 14 Nov	1st	1.5 Difference between vacuum tube & semiconductor.
	2nd	1.6 Principle of working and use of PN junction diode, Zener diode and Light Emitting Diode (LED)
15-Nov	CLASS TEST-1	
16 Nov to 21 Nov	1st	1.7 Integrated circuits.
	2nd	I.C. & its advantages
22 Nov to 28 Nov	1st	2. ELECTRONIC CIRCUITS 2.1 Rectifier & its uses.
	2nd	2.2 Principles of working of different types of Rectifiers with their merits and demerits
29 Nov to 5 Dec	1st	2.3 Functions of filters and classification of simple Filter circuit (Capacitor, choke input and π)
	2nd	2.4 Working of D.C power supply system (unregulated) with help of block diagrams only

6 Dec to 12 Dec	1st	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)
	2nd	2.6 Need of biasing and explain different types of biasing with circuit diagram.(only CE configuration)
13 Dec to 19 Dec	INTERNAL ASSESMENT	
20 Dec 24 Dec	1st	2.7 Amplifiers(concept) , working principles of single phase CE amplifier
	2nd	2.8 Electronic Oscillator and its classification
2 Jan to 7 Jan	1st	2.9 Working of Basic Oscillator with different elements through simple Block Diagram
	2nd	3. COMMUNICATION SYSTEM 3.1 Basic communication system.
9 Jan to 14 Jan	1st	concept & explanation with help of Block diagram
	2nd	3.2 Concept of Modulation and Demodulation, Difference between Modulation &Demodulation
16 Jan to 21 Jan	1st	3.3 Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, No mathematical Derivation)
	2nd	4. TRANSDUCERS AND MEASURING INSTRUMENTS 4.1 Concept of Transducer and sensor with their differences.
23 Jan to 28 Jan	1st	4.2 Different type of Transducers & concept of active and passive transducer.
	2nd	4.3 Working principle of photo emissive, photoconductive, Working principle of photovoltaic transducer and its application.
		4.4 Multimeter and its applications
	1st	4.5 Analog and Digital Multimeter and their differences 4.6 Working principle of Multimeter with Basic Block diagram

30 Jan to 31 Jan	2nd	4.7 CRO, working principle of CRO with simple Block diagram
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Sudhansu Sekhar Munda

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Faculty Signature