KALINGA NAGAR POLY TECHNIC, TARAPUR, JAJPUR.

Lesson plan for 1ST SEM 2023(winter)

Subject: Basic electronic engineering (Th.4b) **Branch:** Electrical

Class allotted:- 02p/week **Faculty name-** Bishnu charan dash

Discipline Subject: Weeks	Date/Period	From date:-16/08/23 To date:11/12/23 Theory/ Practical –Topics/Lesson	Teaching Aid
Week No-1	16/08/23 to 19/08/23	1. ELECTRONIC DEVICES 1.1 Basic Concept of Electronics and its application. 1.2 Basic Concept of Electron Emission & its types.	White board & marker
Week No-2	21/08/23 to 26/08/23	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only. 1.4 Difference between Intrinsic & Extrinsic Semiconductor.	White board & marker
Week No-3	28/08/23 to 02/09/23	1.5 Difference between vacuum tube & semiconductor. 1.6 Principle of working and use of PN junction diode, Zener diode and Light Emitting Diode (LED) 1.7 Integrated circuits (I.C) & its advantages.	White board & marker
Week No-4	04/09/23 to 09/09/23	2. ELECTRONIC CIRCUITS 2.1 Rectifier & its uses. 2.2 Principles of working of different types of Rectifiers with their merits and demerits	White board & marker
Week No-5	11/09/23 to 16/09/23	2.3 Functions of filters and classification of simple Filter circuit (Capacitor, choke input and π) 2.4 Working of D.C power supply system (unregulated) with help of block diagrams only	White board & marker
Week No-6	18/09/23 to 23/09/23	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) 2.6 Need of biasing and explain different types of biasing	White board & marker
Week No-7	25/09/23 to 30/09/23	2.7 Amplifiers(concept) , working principles of single phase CE amplifier 2.8 Electronic Oscillator and its classification 2.9 Working of Basic Oscillator with different elements through simple Block Diagram	White board & marker
Week No-8 .	03/10/23 to 07/10/23	3. COMMUNICATION SYSTEM 3.1 Basic communication system (concept & explanation with help of Block diagram) 3.2 Concept of Modulation and Demodulation, Difference between them	White board & marker

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Week No-9	09/10/23 to 14/10/23	3.3 Different types of Modulation (AM, FM & PM) based on signal, carrier wave and modulated wave (only concept, No mathematical Derivation)	White board & marker
Week No-10	16/10/23 to 20/10/23	3.3 carrier wave and modulated wave (only concept, No mathematical Derivation)	White board & marker
Week No-11	30/10/23 to 04/11/23	4 Multimeter and its applications 4.5 Analog and Digital Multimeter and their differences	White board & marker
Week No-12	06/11/23 to 11/11/23	4.6 Working principle of Multimeter with Basic Block diagram	White board & marker & smart board
Week No-13	13/11/23 to 18/11/23	4.7 CRO, working principle of CRO with simple Block diagram	White board & marker
Week No-14	20/11/23 to 25/11/23	4. TRANSDUCERS AND MEASURING INSTRUMENTS 4.1 Concept of Transducer and sensor with their differences	White board & marker & smart board
Week No-15	28/11/23 to 02/12/23	4.2 Different type of Transducers & concept of active and passive transducer.	White board & marker & smart board
Week No-16	04/12/23 to 09/12/23	Previous year question & answer discussion	White board & marker & smart board
Week No-17	11/12/23	Revision	

16.08.2023

signature of faculty

K.P.D

Signature of HOD