

ENGINEERING & TECHNOLOGY UTKAL INSTITUTE OF



DISCIPLINE:	SEMESTER:	NAME OF THE TEACHING FACULTY: Er.PRIYADARSHINI PARIDA		
All Branch	1st Sem	Semester From Date:14/08/2023		
SUBJECT:	No of Days/Per week class allotted: 4 Class P/W(60)	To Date:11/12/2023		
. BASIC ELECTRONIC ENGINEERING		No. Of Weeks: 15		
WEEK	CLASS DAY	THEORY TOPICS	REMARKS	
1st	1 st	. BASIC ELECTRONIC ENGINEERING	Date	Dean/Principal
	2 nd	1.1 Basic Concept of Electronics and its application.		
	3 rd	1.2 Basic Concept of Electron Emission & its types.		
	4 th	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.		
2 nd	1 st	1.4 Difference between Intrinsic & Extrinsic Semiconductor		
	2 nd	1.5 Difference between vacuum tube & semiconductor.		
	3 rd	1.6 Principle of working and use of PN junction diode, Zener diode and Light Emitting Diode (LED)		
	4 th	1.7 Integrated circuits (I.C) & its advantages.		
3 rd	1 st	2. ELECTRONIC CIRCUITS		
	2 nd	Class test		
	3 rd	2.1 Rectifier & its uses		
	4 th	2.2 Principles of working of different types of Rectifiers with their merits and demerits		
	1 st	2.3 Functions of filters and classification of simple Filter circuit (Capacitor, choke input and π)		
	2 nd	2.4 Working of D.C power supply system (unregulated) with help of block diagrams only		

4th	3rd	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)		
	4th	2.6 Need of biasing and explain different types of biasing with circuit diagram.(only CE configuration)		
5th	1st	Assignment		
	2nd	2.7 Amplifiers(concept) , working principles of single phase CE amplifier		
	3rd	Assignment question Discussion		
	4th	2.8 Electronic Oscillator and its classification		
6th	1st	Class test		
	2nd	2.9 Working of Basic Oscillator with different elements through simple Block Diagram		
	3rd	3. COMMUNICATION SYSTEM		
	4th	Assignment		
7th	1st	3.1 Basic communication system (concept & explanation with help of Block diagram)		
	2nd	Doubt Clear Class		
	3rd	3.2 Concept of Modulation and Demodulation, Difference between them		
	4th	Assignment		
8th	1st	Assignment question Discussion		
	2nd	FM & PM) based on signal, carrier wave and		
	3rd	Assignment		
	4th	4. TRANSDUCERS AND MEASURING INSTRUMENTS		
9th	1st	4.1 Concept of Transducer and sensor with their differences		
	2nd	concept of active and passive transducer.		
	3rd	internal question discussion		
	4th	4.3 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application		
10th	1st	Doubt Clear Class		
	2nd	4.4 Multimeter and its applications		
	3rd	Doubt clear class		
	4th	4.5 Analog and Digital Multimeter and their differences		

11 th	1 st	Doubt Clear Class		
	2 nd	4.6 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application		
	3 rd	4.9 Star rating of home appliances (Terminology, Energy efficiency, Star rating Concept)		
	4 th	5.1 Analog and Digital Multimeter and their differences		
12 th	1 st	5.2 Working principle of Multimeter with Basic Block diagram		
	2 nd	5.3 CRO, working principle of CRO with simple Block diagram		
	3 rd	4.1 Concept of Transducer and sensor with their differences.		
	4 th	Last Class Discussion		
13 th	1 st	Class test		
	2 nd	Rectifier & its uses.		
	3 rd	Basic Concept of Electronics and its application.		
	4 th	Amplifiers(concept) , working principles of single phase CE amplifier		
14 th	1 st	Integrated circuits (I.C) & its advantages.		
	2 nd	Assignment		
	3 rd	Doubt clear class		
	4 th	6.1 Introduction to measuring instruments.		
15 th	1 st	Rectifier & its uses		
	2 nd	4.7 CRO, working principle of CRO with simple Block diagram		
	3 rd	internal question discussion		
	4 th	Doubt Clear Class		

HOD

DEAN

PRINCIPAL

Chittaranjan Tarida

Tejashree Das

A handwritten signature in black ink, possibly reading 'Dad', with a horizontal line extending to the right.