



UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE:	SEMESTER:	NAME OF THE TEACHING FACULTY: Er. Jyoti prakash swain		
All Branch	1st Sem	Semester From Date:25/10/2022		
SUBJECT:	No of Days/Per week class allotted: 4 Class P/W(60)	To Date:31/01/2023		
. BASIC ELECTRONIC ENGINEERING		No. Of Weeks: 15		
WEEK	CLASS DAY	THEORY TOPICS	REMARKS	
1 st	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		
4 th	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		
	3 rd	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)		
	4 th	2.6 Need of biasing and explain different types of biasing with circuit diagram.(only CE configuration)		
5 th	1 st	Assignment		
	2 nd	2.7 Amplifiers(concept) , working principles of single phase CE amplifier		
	3 rd	Assignment question Discussion		
	4 th	2.8 Electronic Oscillator and its classification		
6 th	1 st	Class test		
	2 nd	2.9 Working of Basic Oscillator with different elements through simple Block Diagram		
	3 rd	3. COMMUNICATION SYSTEM		
	4 th	Assignment		
7 th	1 st	3.1 Basic communication system (concept & explanation with help of Block diagram)		
	2 nd	Doubt Clear Class		
	3 rd	3.2 Concept of Modulation and Demodulation, Difference between them		
	4 th	Assignment		
8 th	1 st	Assignment question Discussion		
	2 nd	FM & PM) based on signal, carrier wave and		
	3 rd	Assignment		
	4 th	4. TRANSDUCERS AND MEASURING INSTRUMENTS		

9 th	1 st	4.1 Concept of Transducer and sensor with their differences		
	2 nd	concept of active and passive transducer.		
	3 rd	internal question discussion		
	4 th	4.3 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application		
10 th	1 st	Doubt Clear Class		
	2 nd	4.4 Multimeter and its applications		
	3 rd	Doubt clear class		
	4 th	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		
	1 st	Class test		
	2 nd	Rectifier & its uses.		

13 th	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		

Tejaswini Das

HOD

Chittaranjan Perida

DEAN



PRINCIPAL