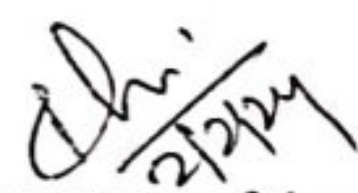




SYNERGY SCHOOL OF ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING

Discipline :CSE/CE& MI	Semester:- 2ND sem	Name of the teaching faculty:- PRAJNAPARAMITA KABI
Subject:- basic electronics	No. of Days/week class Allotted:-2	No. of weeks:-15 SESSION-2023-2024 SUMMER
No. of week	No. of class	Topic to be Taught
1	1 st	Introduction class
	2 nd	Basic Concept of Electronics
2	1 st	Electron Emission & different types
	2 nd	Classification of material according to electrical conductivity
3	1 st	Conductor, Semiconductor & Insulator) with respect to energy band diagram only
	2 nd	Intrinsic & Extrinsic Semiconductor
4	1 st	Difference between vacuum tube & semiconductor.
	2 nd	Principle of working and use of PN junction diode, Zener diode and Led
5	1 st	Basic concept of manufacturing integrated circuits (I.C) & its uses.
	2 nd	Define Rectifier & its use
6	1 st	Principles of working of different types of Rectifiers and their merits and demerits
	2 nd	Functions of filters and classification of filter characteristics
7	1 st	D.C power supply system with help of block diagrams
	2 nd	Different types of Transistor Configuration and state output and input current gain relationship in CE,CB and CC configuration
8	1 st	Need of biasing and different types of biasing with circuit diagram.(CE configuration
	2 nd	Amplifiers and how amplification of signal is achieved by the help of transisto
9	1 st	Working of a single phase RC coupled Amplifier and discuss its frequency response and gain verses bandwidth relationship
	2 nd	Basic function of Oscillation
10	1 st	Essentials of Transistor oscillators and its classifications
	2 nd	Basic communication system with help of Block diagram Modulation
11	1 st	Different types of Modulation (AM, FM & PM)
	2 nd	Working of Super heterodyne Radio Receiver

12	1 st	Block diagram of Radio Transmitter & Receiver
	2 nd	Concept of Transducer and Primary sensor
13	1 st	Different type of Transducers & concept of active and 34passive transducer
	2 nd	Mechanical primary transducers, devices, springs and Bourden tube diaphr3agm
14	1 st	Working principle and application of LVDT
	2 nd	Working principle of photo emissive, photoconductive, photovoltaic transducer and its application
15	1 st	Multimeter, types and applications
	2 nd	CRO , Block diagram of CRO and applications of CRO.
	3 rd	Basic concept of automatic control system


 Signature of the faculty


 HOD,EE