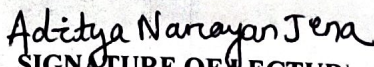


PNS SCHOOL OF ENGG. & TECH., MARSHAGHAI
DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

LESSON PLAN

BRANCH : ELECTRICAL ENGINEERING	SEMESTER : 1ST	NAME OF TEACHING FACULTY : ER. ADITYA NARAYAN JENA
SUBJECT : BASIC ELECTRONICS ENGG	NO. OF DAYS/ PER WEEK CLASS ALLOTTED : 03	SEMESTER FROM DATE : 25.10.2022 TO 31.01.2023 NO. OF WEEKS : 12
WEEK	CLASSDAY	THEORY TOPICS
1ST	1st	MODULE 1:ELECTRONIC DEVICES: Basic Concept of Electronics and its Application
	2nd	Basic Concept of Electron Emission and its Types
	3rd	Classification of Materials according to Energy Band Diagram(Insulator,Semiconductor,Conductor)
2ND	1st	Difference between Intrinsic and Extrinsic Semiconductor
	2nd	Difference between Vacuum tube and Semiconductor
	3rd	Principle of Working and use of PN-Junction diode
3RD	1st	Working of Zener Diode
	2nd	Working and use of LED
	3rd	Integrated Circuits(IC) and its advantages
4TH	1st	MODULE 2:ELECTRONIC CIRCUITS: Rectifier and Its uses
	2nd	Working of Half Wave Rectifier with merits and demerits
	3rd	Working of Center tapped FWR with merits and demerits
5TH	1st	Working of Full wave Bridge rectifier with merits and demerits
	2nd	Functions of Filters,Types of Filters(Capacitor,Choke input and π)
	3rd	Working of Unregulated DC Power supply system with help of Block diagram
6TH	1st	TRANSISTOR,Types of Transistor,Symbols
	2nd	Working of PNP and NPN Transistor
	3rd	Different types of Transistor Configuration(CE,CB,CC)
7TH	1st	Current gain relationship in CB,CE,CC Connection
	2nd	Transistor biasing,Need of Biasing,Types of Biasing with Circuit diagram(Only CE Connection)
	3rd	Concept of Amplifier,Working of Single Phase CE Amplifier
8TH	1st	Electronic Oscillator,Its Types
	2nd	Working of Basic Oscillator with simple Block Diagram
	3rd	MODULE 3:COMMUNICATION SYSTEM: Block Diagram of basic Communication system
9TH	1st	Concept of Modulation and Demodulation;Difference between them.
	2nd	Different types of Modulation(AM,FM,PM) based on Signal,Carrier wave and Modulated Wave.
	3rd	MODULE 4:TRANSDUCERS AND MEASURING INSTRUMENTS: Concept of Transducer and Sensor;Difference between them.
10TH	1st	Types of Transducer
	2nd	Concept of Active and Passive Transducer
	3rd	Working Principle of Photo emissive,Photoconductive Transducer;Application.
11TH	1st	Working Principle of Photo Voltaic Transducer;Application
	2nd	Multimeter,its Application
	3rd	Analog multimeter and Digital multimeter,Difference between them.
12TH	1st	Working Principle of Multimeter with Basic Block diagram
	2nd	CRO,Its Application
	3rd	Working of CRO With Block diagram


SIGNATURE OF H.O.D.


SIGNATURE OF LECTURER