

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

LESSON PLAN

BRANCH : ELECTRICAL ENGINEERING	SEMESTER : 1ST	NAME OF THE TEACHING FACULTY : Er. ADITYA NARAYAN JENA
SUBJECT : BASIC ELECTRONICS ENGG.	No. of Days / Week Class Allotted : 2	SEMESTER FROM : 16.08.2023 TO 11.12.2023
WEEK	CLASS DAY	THEORY TOPICS
1st	1st	MODULE 1:ELECTRONIC DEVICES: Basic Concept of Electronics and its Application
	2nd	Basic Concept of Electron Emission and its Types
2nd	1st	Classification of Materials according to Energy Band Diagram(Insulator,Semiconductor,Conductor)
	2nd	Difference between Intrinsic and Extrinsic Semiconductor Difference between Vacuum tube and Semiconductor
3rd	1st	Principle of Working and use of PN-Junction diode
	2nd	Working of Zener Diode & Working and use of LED
4th	1st	Integrated Circuits(IC) and its advantages
	2nd	MODULE 2:ELECTRONIC CIRCUITS: Rectifier and Its uses
5th	1st	Working of Half Wave Rectifier with merits and demerits, Working of Center tapped FWR with merits and demerits
	2nd	Working of Full wave Bridge rectifier with merits and demerits
6th	1st	Functions of Filters,Types of Filters(Capacitor,Choke input and π)
	2nd	Working of Unregulated DC Power supply system with help of Block diagram
7th	1st	TRANSISTOR,Types of Transistor,Symbols & Working of PNP and NPN Transistor
	2nd	Different types of Transistor Configuration(CE,CB,CC)
8th	1st	Current gain relationship in CB,CE,CC Connection
	2nd	Transistor biasing,Need of Biasing,Types of Biasing with Circuit diagram(Only CE
9th	1st	Concept of Amplifier,Working of Single Phase CE Amplifier
	2nd	Electronic Oscillator,Its Types
10th	1st	Working of Basic Oscillator with simple Block Diagram
	2nd	MODULE 3:COMMUNICATION SYSTEM: Block Diagram of basic Communication system
11th	1st	Concept of Modulation and Demodulation;Difference between them. Different types of Modulation(AM,FM,PM) based on Signal,Carrier wave and Modulated Wave.
	2nd	MODULE 4:TRANSDUCERS AND MEASURING INSTRUMENTS:Concept of Transducer and Sensor,Difference between them.
12th	1st	Types of Transducer, Concept of Active and Passive Transducer
	2nd	Working Principle of Photo emissive,Photoconductive Transducer;Application.
13th	1st	Working Principle of PhotoVoltaic Transducer;Application
	2nd	Multimeter,its Application
14th	1st	Analog multimeter and Digital multimeter,Difference between them.
	2nd	Working Principle of Multimeter with Basic Block diagram
15th	1st	CRO,Its Application
	2nd	Working of CRO With Block diagram

Anarendra Saha

Signature of HOD

Aditya Narayan Jena

Signature of Lecturer

