

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

BRANCH : CIVIL, ETC, COMP. SC, MECHANICAL	SEMESTER : 1ST	NAME OF THE LECTURER: Er. ADITYA NARAYAN JENA
SUBJECT : FUNDAMENTAL OF BASIC ELECTRONICS ENGINEERING	NO. OF DAYS / WEEK CLASS ALLOTTED-03	SEMESTER FROM DATE : 16.08.2024 TO 10.12.2024 No. of Weeks : 10
WEEK	CLASSDAY	THEORY TOPICS
1ST	1st	UNIT-I:OVERVIEW OF ELECTRONIC COMPONENTS & SIGNALS-Active and Passive components
	2nd	Applications of Active and Passive components
	3rd	Problems of R,C & L.
2nd	1st	Working of PN junction
	2nd	Working of LED,Zener diode
	3rd	Types and working of Transistor
3rd	1st	Concept of MOS & CMOS
	2nd	DC/AC,V/I,Periodic/Non periodic signals,Avg,rms,peak values
	3rd	Different types of Signal waveforms
4th	1st	Ideal/Non ideal V/I sources,Independent/Dependent V I sources(only define)
	2nd	UNIT-II:OVERVIEW OF ANALOG CIRCUITS -OpAmp
	3rd	Ideal Opamp
5th	1st	Practical opamp
	2nd	Open loop configurations
	3rd	Closed loop configurations
6th	1st	Opamp as Amplifier
	2nd	Opamp as Adder
	3rd	Opamp as Differentiator
7th	1st	Opamp as Integrator
	2nd	UNIT-III:OVERVIEW OF DIGITAL ELECTRONICS- Introduction to Boolean Algebra
	3rd	Electronic implementation of Boolean operations
8th	1st	Logic gates
	2nd	Simple problems of Number system
	3rd	Storage elements (FFs)
9th	1st	Ripple counter
	2nd	UP/DOWN Counter
	3rd	Decade counter
10th	1st	Introduction to Digital IC gates(TTL Type)
	2nd	Revision
	3rd	Revision

SIGNATURE OF LECTURER

SIGNATURE OF H.O.D.

SIGNATURE OF PRINCIPAL