

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

LESSION PLAN FOR ACADEMIC SESSION SUMMER 2019-20						
JHARSUGUDA ENGINEERING SCHOOL,JHARSUGUDA						
Name of the Faculty: SUNIL KUMAR PAL	Academic Year:2019-20					
Course No.: Th-4b	Course Name: Basic Electronics					
Program: Diploma	Branch: Civil & Mechanical					
Year/Sem: 1 st / 2 nd	Section: A, B & C					
Total Period s: 30 P/ Sem	End Semester Exam: 40marks					
Examination : 3 Hours	Internal Assessment :10 Marks					
	TOTAL MARKS :50 Marks					

Sl. No.	Period	Time (min)	Unit/ Chapter	Topic to be covered	Teaching method
1.	1.	55	1	.ELECTRONIC DEVICES 1.1 Basic Concept of Electronics and its application.	Black board
2.	2.	55	1	Basic Concept of Electron Emission & its types.	Black board
3.	3.	55	1	Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.,	Black board
4.	4.	55	1	Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.	Black board
5.	5.	55	1	Difference between Intrinsic & Extrinsic Semiconductor.	Black board
6.	6.	55	1	Difference between vacuum tube & semiconductor.	Black board
7.	7.	55	1	Principle of working and use of PN junction diode, Zener diode and Light Emitting Diode (LED)	Black board
8.	8.	55	1	Integrated circuits (I.C) & its advantages.	Black board
9.	9.	55	2	ELECTRONIC CIRCUITS 1.1 Rectifier &its uses.	Black board
10.	10.	55	2	2.2 Principles of working of different types of	Black board

				Rectifiers with their merits and demerits	
11.	11.	55	2	2.2 Principles of working of different types of Rectifiers with their merits and demerits	Black board
12.	12.	55	2	2.3 Functions of filters and classification of	Audio visual
12.	12.		2	simple Filter circuit (Capacitor, choke input and	smart class
					Sinart Class
				π)	
13.	13.	55	2	2.4 Working of D.C power supply system	Black board
				(unregulated) with help of block diagrams only	
14.	14.	55	2	2.5 Transistor, Different types of Transistor	Black board
				Configuration and state output and input	
				current gain relationship in CE,CB and CC	
		configuration(No mathematical derivation)			
15.	15.	55	2	2.5 Transistor, Different types of Transistor	Black board
				Configuration and state output and input	
				current gain relationship in CE,CB and CC	
				configuration(No mathematical derivation)	
16.	16.	55	2	2.6 Need of biasing and explain different	Black board
10.					Black courd
				types of biasing with circuit diagram.(only	
17	17	55	2	CE configuration).	A 1''1
17.	17.	33	2	2.7 Amplifiers(concept) , working principles of	Audio visual smart class
				single phase CE amplifier	Sinart class
18.	18.	55	2	2.8 Electronic Oscillator and its classification	Black board
				210 210011 O 1110 O 50111 A 110 O 1105 ST 1100 A	
19.	19.	55	2	2.9 Working of Basic Oscillator with different	Black board
				elements through simple Block Diagram	
20.	20.	55	3	3. COMMUNICATION SYSTEM 3.1 Basic	Black board
				communication system (concept & explanation	
				with help of Block diagram)	
21.	21.	55	3	3.2 Concept of Modulation and Demodulation,	Black board
				Difference between them	
22.	22.	55	3	3.3 Different types of Modulation (AM, FM &	Black board
				PM) based on signal, carrier wave and	
				modulated wave (only concept, No	
				mathematical Derivation)	
23.	23.	55	3	3.3 Different types of Modulation (AM, FM &	Black board
				PM) based on signal, carrier wave and	
				modulated wave (only concept, No	
	2.4			mathematical Derivation)	
24.	24.	55	4	4. TRANSDUCERS AND MEASURING	Black board
				INSTRUMENTS 4.1 Concept of Transducer and	
25	25	55	4	sensor with their differences.	D1 1 1 1
25.	25.	33	4	4.2 Different type of Transducers & concept of	Black board
26.	26.	55	4	active and passive transducer.	Black board
∠0.	۷٥.		4	4.3 Working principle of photo emissive,	DIACK DOATG
				photoconductive, photovoltaic transducer and	
				its application	
27.	27.	55	4	4.4 Multimeter and its applications . 4.5 Analog	Black board
				and Digital Multimeter and their differences	
		1	1	4.6 Working principle of Multimeter with	1

				Basic Block diagram	
28.	28.	55	4	4.7CRO, working principle of CRO with simple Block diagram	Black board
29.	29.	55	4	Revision /Questions Discussion	Black board
30.	30.	55	4	Revision /Questions Discussion	Black board