

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

LESSION PLAN FOR .	ACADEMIC SESSION 2022-23
JHARSUGUDA ENGINE	ERING SCHOOL,JHARSUGUDA
Name of the Faculty: SUNIL KUMAR PAL	Academic Year:2022-23
Course No.: Th-4b	Course Name: Basic Electronics
Program: Diploma	Branch: Civil/ Mechanical
Year/Sem: 1st / 2nd	Section: C, M(a),M(b)
Total Period s: 30 P/ Sem	End Semester Exam : 40marks
Examination : 3 Hours	Internal Assessment :10 Marks
	TOTAL MARKS :50 Marks

SI. 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	2. ELECTRONIC CIRCUITS 2.1 Rectifier &its uses.	Black board
10.	10.	55	2	2.2 Principles of working of different types of Rectifiers with their merits and demerits	Black board

					Black board
11.	11.	55	2	2.2 Principles of Working of different types of	Stack board
11.				postitions with their merits and dements	Audio visual
12	12.	55	2	2.3 Eunctions of filters and classification of simple	smart class
12.	12.			Filter circuit (Capacitor, choke input and π)	mart vido
					Black board
12	13.	55	2	1 2 A Working of D.C Dower Supply system	טומכא טטמום
13.	13.		-	(upregulated) with help of block diagrams only	Black board
	14.	55	2	2.5 Transistor, Different types of Transistor	Black board
14.	14.		_	- C	
~				output and input current gain relationship in	Black board
15. 15.	15.	55	2	CE,CB and CC configuration(No mathematical	
				derivation)	Black board
16.	16.	55	2	2.6 Need of biasing and explain different	
10.				types of biasing with circuit diagram.(only CE	
				configuration).	Audio visual
	17	55	2	2.7 Amplifiers(concept) , working principles of	
17.	17.	33	2	single phase CE amplifier	smart class
	- 10	55	2	2.8 Electronic Oscillator and its classification	Black board
18.	18.	33	2		
	• • •	55	1	2.9 Working of Basic Oscillator with different	Black board
19.	19.	33	2	elements through simple Block Diagram	
				3. COMMUNICATION SYSTEM 3.1 Basic	Black board
20.	20.	55	3	communication system (concept & explanation	
				communication system (concept & expanse)	
			with help of Block diagram)	Black board	
21.	21.	55	3	3.2 Concept of Modulation and Demodulation,	
		,	Difference between them	Black board	
22. 22.	55	3 -	3.3 Different types of Modulation (AM, FM & PM)	2.0.00	
22.				based on signal, carrier wave and modulated	
				wave (only concept, No mathematical Derivation)	Black board
23.	23.	55	3	2.2 Different types of Modulation (AIVI, FIVI & FIVI)	Diack com-
23.				based on signal carrier wave and modulated	===
				wave (only concept, No mathematical Derivation)	Black board
24	24.	55	4	4 TRANSDUCERS AND MEASURING	Diack board
24.	24.			INSTRUMENTS 4.1 Concept of Transducer and	
		`		consor with their differences.	Disable based
	25	55	4	4.2 Different type of Transducers & concept of	Black board
23.	25.		1	active and passive transducer.	
	2.	55	4	4.3 Working principle of photo emissive,	Black board
26.	26.	33	4	photoconductive, photovoltaic transducer and its	-
				application	
				application	
				4.4 Multimeter and its applications .	Black board
27.	27.	55	4	4.4 Multimeter and its approach	
				4.5 Analog and Digital Multimeter and their	Black board
28.	28.	55	4		
				differences	
				L. Chaultimotomuith Bacin	Black board
29.	29.	55	4	4.6 Working principle of Multimeter with Basic	
27.			Block diagram	Black board	
			1	the simple	I Black board
30.	30.	55	4	4.7 CRO, working principle of CRO with simple	Diack court