LESSON PLAN

Subject name:	Faculty Name: Mrs. Niharika Sethy	
Basic Electronics	·	
	No of Classes per week: 2	
	Commencement of classes: From 29.01.2024	
	to 14.05.2024	
Week No.	Topics to be covered	Status
W1	1.1Basic concept of Electronics& its	
	applications.	
	1.2 Basic concept of Electron Emission and	
	its type.	
W2	1.3 Classification of material according to	
	electrical conductivity (Conductor,	
	Semiconductor & Insulator) with respect to	
	energy band diagram only.	
	1.4 Intrinsic & Extrinsic Semiconductor.	
W3	1.5 Difference between vacuum tube &	
	semiconductor.	
	1.6 Principle of working and use of PN	
	junction diode, Zener diode	
W4	Light Emitting Diode (LED), Basic concept	
	of integrated circuits (I.C) & its uses.	
W5	2.1 Define Rectifier & its use. 2.2 Principles	
	of working of different types of Rectifiers and	
	their merits and demerits	
W6	2.3 Functions of filters and classification of	
	filter characteristics 2.4 D.C power supply	
	system with help of block diagrams only	
W7	2.5 Different types of Transistor	
	Configuration and state output and input	
	current gain relationship in CE,CB and CC	
	configuration.	
	2.6 Need of biasing and different types of	
	biasing with circuit diagram.(CE	
	configuration)	
W8	2.9 Basic function of Oscillation	
	2.10 Essentials of Transistor oscillators and	
	its classifications.	

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3.2 Modulation, Demodulation.	
3.3 Need of Modulation	
3.4 Different types of Modulation (AM, FM	
&PM)3.5 Amplitude Modulation &	
Frequency Modulation (Signal, Carrier Wave	
& Modulated Wave) (No Mathematical	
Derivation.)	
4.1 Concept of Transducer and Primary	
sensor and differences.	
4.2 Different type of Transducers & concept	
of active and passive transducer	
4.3 Working principle of photo emissive,	
photoconductive, photovoltaic transducer and	
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4.4 Multimeter, types and applications	
4.5 Analog and digital multimeter and their	
differences	
4.6 Working principle of Multimeter with	
basic block diagram.	
4.7 CRO, Block diagram of CRO and	
	3.4 Different types of Modulation (AM, FM &PM)3.5 Amplitude Modulation & Frequency Modulation (Signal, Carrier Wave & Modulated Wave) (No Mathematical Derivation.) 4.1 Concept of Transducer and Primary sensor and differences. 4.2 Different type of Transducers & concept of active and passive transducer 4.3 Working principle of photo emissive, photoconductive, photovoltaic transducer and its application. 4.4 Multimeter, types and applications 4.5 Analog and digital multimeter and their differences 4.6 Working principle of Multimeter with basic block diagram.

