## **LESSON PLAN**

Subject name: Basic Electronics	Faculty Name: Mrs. Niharika Sethy	
	No of Classes per week: 2	
	Commencement of classes: From 25.10.2022	
	to 31.01.2023	1
Week No.	Topics to be covered	Status
	ELECTRONIC DEVICES	
	1.1 Basic 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	ELECTRONIC CIRCUITS	
	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)	

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W8	2.9 Basic function of Oscillation	
	2.10 Essentials of Transistor oscillators and	
	its classifications.	
	COMMUNICATION SYSTEM	
W9	3.1 Basic communication system with help of	
	Block diagram	
	3.2 Modulation, Demodulation.	
W10	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.)	
W11	TRANSDUCERS AND MEASURING	
	<b>INSTRUMENTS</b> 4.1 Concept of Transducer	
	and Primary sensor and differences.	
	4.2 Different type of Transducers & concept	
	of active and passive transducer	
W12	4.3 Working principle of photo emissive,	
W12	photoconductive, photovoltaic transducer and	
	its application.	
W13	4.4 Multimeter, types and applications	
	4.5 Analog and digital multimeter and their	
	differences	
W14	4.6 Working principle of Multiameter with	
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W15	4.7 CRO, Block diagram of CRO and	
	applications of CRO	
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