DEPARTMENT OF ELECTRICAL ENGINEERING

LESSON PLAN

Branch: EE/MET/ MIN	Semester: 1st	**Name of the Teaching faculty: Niharika Sethy** **date : 25/10/22 to 31/01/2023**	
Week No.	**No of days**	**Topics to be covered**	
W1	**100.00%**	1.1 Basic concept of Electronics& its applications.	
	200.00%	1.2 Basic concept of Electron Emission and its type.	
W2	**100.00%**	1.3 Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.	
	200.00%	1.4 Intrinsic & Extrinsic Semiconductor.	
W3	**100.00%**	1.5 Difference between vacuum tube & semiconductor.	
	200.00%	1.6 Principle of working and use of PN junction diode, Zener diode	
W4	**100.00%**	Light Emitting Diode (LED),	
	200.00%	Basic concept of integrated circuits (I.C) & its uses.	
W5	**100.00%**	2.1 Define Rectifier & its use.	
	200.00%	2.2 Principles of working of different types of Rectifiers and their merits and demerits	
W6	**100.00%**	2.3 Functions of filters and classification of filter characteristics	
	200.00%	2.4 D.C power supply system with help of block diagrams only	
W7	**100.00%**	2.5 Different types of Transistor Configuration and state output and input current gain relationship in CE,CB and CC configuration.	
	200.00%	2.6 Need of biasing and different types of biasing with circuit diagram.(CE configuration) types of biasing with circuit diagram.(CE configuration)	
W8	**100.00%**	2.9 Basic function of Oscillation	
	200.00%	2.10 Essentials of Transistor oscillators and its classifications.	

W9	**100.00%**	3.1 Basic communication system with help of Block diagram	
	200.00%	3.2 Modulation, Demodulation.	
W10	**100.00%**	3.3 Need of Modulation	
	200.00%	3.4 Different types of Modulation (AM, FM & PM)3.5 Amplitude Modulation & Frequency Modulation (Signal, Carrier Wave & Modulated Wave) (No Mathematical Derivation.)	
W11	**100.00%**	4.1 Concept of Transducer and Primary sensor and differences.	
	200.00%	4.2 Different type of Transducers & concept of active and passive transducer	
W12	**100.00%**	4.3 Working principle of photo emissive,	
	200.00%	photoconductive, photovoltaic transducer and its application.	
W13	**100.00%**	4.4 Multimeter, types and applications	
	200.00%	4.5 Analog and digital multimeter and their differences	
W14	**100.00%**	4.6 Working principle of Multimeter with basic block diagram	
	200.00%	4.7 CRO , Block diagram of CRO and applications of CRO	