

UTKALMANI GOPABANDHU INSTITUTE OF
ENGINEERING, ROURKELA



LESSON PLAN

SESSION: 2022-2023

DEPARTMENT OF ELECTRONICS AND
TELECOMMUNICATION ENGINEERING

SUBJECT CODE: Th.4 (B)

NAME OF THE SUBJECT: BASIC ELECTRONICS ENGINEERING

SEMESTER: DIPLOMA 2ND SEM

NUMBER OF CLASSES ALLOTTED PER WEEK: 2

**TOTAL PERIODS ALLOTTED TO THE SUBJECT ACCORDING TO
SCTEVT: 30**

NAME OF THE FACULTY: PRIYADARSHINI MISHRA

UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING, ROURKELA



LESSON PLAN

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

SUBJECT CODE: TH4 (B)
NAME: BASIC ELECTRONICS
BRANCH: MECHANICAL
SEMESTER: DIPLOMA -II
PERIODS PER WEEK: 2
NAME OF THE FACULTY: PRIYADARSHINI MISHRA

Week/Date	Lecture	Topic to be covered	REMARK
Week 1 20/03/2023 TO 23/03/2023	1	Basic Concept of Electronics and its application. Basic Concept of Electron Emission & its types.	
	2	Classification of material according to electrical conductivity (Conductor, Semiconductor & Insulator) with respect to energy band diagram only.	
Week 2 27/03/2023 TO 01/04/2023	1	Difference between Intrinsic & Extrinsic Semiconductor.	
	2	Difference between vacuum tube & semiconductor.	
Week 3 03/04/2023 TO 08/04/2023	1	Principle of working and use of PN junction diode, Zener diode and Light Emitting Diode (LED)	
	2	Integrated circuits (I.C) & its advantages.	
Week 4 10/04/2023 TO 15/04/2023	1	Rectifier & its uses.Principles of working of different types of Rectifiers with their merits and demerits.	
	2	Functions of filters and classification of Filter circuit characteristic	

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Week/Date	Lecture	Topic to be covered	REMARK
Week 5 17/04/2023 TO 22/04/2023	1 2	D.C power supply system with help of block diagrams only. Transistor, Different types of Transistor Configuration and state output and input current gain relationship in CE,CB and CC configuration(No mathematical derivation)	
Week 6 24/04/2023 TO 29/04/2023	1 2	Need of biasing and explain different types of biasing with circuit Amplifiers(concept)and how the amplification of signal is achieved by the help of transistor	
Week 7 01/05/2023 TO 06/05/2023	1 2	working principles of single phase CE amplifier Basic functions Oscillator and its classification	

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Week/Date	Lecture	Topic to be covered	REMARK
Week 8 08/05/2023 TO 13/05/2023	1 2	Basic communication system with help of Block diagram ,Modulation , Need of modulation Different types of Modulation (AM, FM & PM)	
Week 9 15/05/2023 TO 20/05/2023	1 2	Amplitude modulation and frequency modulation based on signal, carrier wave and modulated wave Demodulation ,Working of super heterodyne radio receiver	
Week 10 22/05/2023 TO 27/05/2023	1 2	Block diagram of Radio Transmitter and Receiver Concept of transducer and primary sensor.	

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Week/Date	Lecture	Topic to be covered	REMARK
Week 11 29/05/2023 TO 03/06/2023	1 2	Different type of transducer and concept of active and passive transducer Working principle of photo emissive transducer	
Week 12 05/06/2023 TO 10/06/2023	1 2	Working principle of photoconductive transducer Working principle of photovoltaic transducer. Applications of transducer	
Week 13 12/06/2023 TO 17/06/2023	1 2	Multimeter and its application Analog and digital multimeter and their difference	
Week 14 19/06/2023 TO 24/06/2023	1 2	Working principle of multimeter with basic block diagram CRO, Working principle of CRO with simple block diagram	20/06/23 Holiday (Car Festival) need one extra class for adjustment

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Week/Date	Lecture	Topic to be covered	REMARK
Week 15 26/06/2023	1	Semester Question Discussion	