

DHABALESWAR INSTITUTE OF POLYTECHNIC

LESSON PLAN

Discipline	Semester	Name of the Teaching Faculty
Subject	No. of days per Week Class Alloted 2 (Two)	Semester from Dt. <u>25-10-21</u> To Dt. <u>07-01-22</u> No. of Weeks: <u>15 (fifteen)</u>
Week	Class Day	Theory / Practical Topics
1st Week October-2021	1st	Basic concept of Electronics and its application.
	2nd	Basic concept of Electron Emission and its types.
	3rd	Classification of material according to electrical conductivity with respect to energy band diagram.
2nd Week November-21	1st	Difference between intrinsic and Extrinsic semiconductor.
	2nd	Difference between vacuum tube and semiconductor.
3rd week	1st	Principle of working and use of PN Junction diode, Zener Diode and Light Emitting Diode.
	2nd	Integrated circuits and its advantages.
4th week	1st	Rectifier and its use.
	2nd	Principles of working of different types of Rectifiers with their merits and demerits.
5th Week	1st	Functions of filters and classification of simple filter circuit (capacitor, choke, input and π).
	2nd	Working of DC power supply system (unregulated) with help of block diagrams.
	3rd	Transistors, Different type of Transistor configuration.
6th Week Dec-2021	1st	Output and input current gain. Relationship in CE, CB and CC configuration.

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Discipline	Semester	Name of the Teaching Faculty
		Girija Senka Prasad
Subject	No. of days per Week Class Alloted 2(Two)	Semester from Dt. 25.10.21 To Dt. 07.12.22 No. of Weeks: 15 (fifteen)
Week	Class Day	Theory / Practical Topics
	2nd	Need of biasing, different types of biasing with circuit diagram.
7th Week	1st	CE configuration.
	2nd	Amplifiers working principle of single phase CE Amplifier.
8th week	1st	Electronic Oscillator and its classification
	2nd	Working of Basic Oscillator with different elements through simple Block Diagram.
9th week	1st	Basic communication system (concept and explanation with help of Block Diagram)
	2nd	Concept of Modulation and Demodulation
10th Week	1st	Difference between Modulation and Demodulation.
	2nd	Different types of Modulation
11th Week (Jan - 2022)	1st	AM, PM and FM based on signal carrier wave and modulated wave.
	2nd	concept of Transducer and sensor with their difference
12th Week	1st	Different types Transducer and concept of active and passive transducer.
	2nd	Working principle of photo emissive photo conductive, photo voltaic transducer and its application.
13th Week	1st	Multimeter and its application.
	2nd	Analog and Digital Multimeter and their differences.
14th Week	1st	Working Principle of Multimeter with Basic Block Diagram.

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