

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN *Session: 2022-23*

1st Semester

Electrical/Comp. Sc./Metallurgical Engineering

Basic Electronics Engineering

Sri Niranjan Behera
Sr. Lect. in Electronics & tele.com. Engg.

Subject: Basic Electronics engg.

No. of Days/per week class allotted : 02

Semester From Date : 25-10-2022 To Date : 20-02-2023

No. of Weeks : 15

Week	Class Day	Theory /Practical Topics
1st	1	Basic concept of Electronics and its application
	2	Electron emission and its type
2nd	3	Classification of solid according to energy band diagram.
	4	Intrinsics semiconductor
3rd	5	Extrinsics semiconductor
	6	Difference between Vaccum tube and semi-conductor
4th	7	PN Junction diode , Zener diode and LED
	8	Integrated circuit (IC) and its advantage
5th	9	Rectifier
	10	Half wave & Full wave rectifier with their merits and demerits.
6th	11	Filter and different type of filter.
	12	Working of power supply (dc) with block diagram.
7th	13	Transistor , Different type of transistor CB,CE and CC.
	14	Need of biasing and type of biasing
8th	15	Single stage CE amplifier
	16	Oscillator and its classification.
9th	17	Different element of Oscillator and simple Block diagram
	18	Block diagram of Basics commutation system
10th	19	Modulation and Demodulation
	20	Type of modulation (AM,FM & PM)
11th	21	Concept of transducer
	22	Sensor . Different between sensor and transducer
12th	23	Different type of transducer
	24	Working Principle of photo volatice transuder.

Niranjan Behera
Signature of the Faculty

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Week	Class Day	Theory /Practical Topics
13th	25	Working Principle of photo emissive transuder.
	26	Multi meter and its application
14th	27	Analag and digital multimeter with block diagram.
	28	CRO , Working principle of CRO with block diagram.
15th	29	Different wave parameter and relation between them.
	30	Revision and Question discussion.

Niranjana Behara
Signature of the Faculty