



DEPARTMENT OF ELECTRICAL ENGINEERING
ORISSA SCHOOL OF MINING ENGINEERING KEONJHAR

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LESSON PLAN

Discipline- MATHEMATICS & SCIENCE	Semester- 1 st Section C	Name of the Teaching Faculty- ER. SHRADHA PATRA		
Subject- BASIC ELECTRONICS Subject Code- TH4(b)	No. of days/week class allotted- 02	Semester From Date: 29/01/2024 To Date: 14/05/2024 Number of weeks- 16		
MONTH	WEEK	NO. OF PERIODS AVAILABLE	CLASS DAY	THEORY TOPICS TO BE COVERED
JANUARY	1st	2	30/01/2024	Introduction & Briefing of the syllabus Basic Concept of Electronics and its application.
FEBRUARY			01/02/2024	Basic Concept of Electron Emission & its types
	2nd	2	06/02/2024	Classification of material according to electrical conductivity
			08/02/2024	Difference between Intrinsic & Extrinsic Semiconductor. Difference between vacuum tube & semiconductor.
	3rd	2	13/02/2024	Principle of working and use of PN junction diode
			15/02/2024	Zener diode and Light Emitting Diode (LED)
	4th	2	20/02/2024	Integrated circuits (I.C) & its advantages
			22/02/2024	Rectifiers, its working principle and types of rectifiers
	5th	2	27/02/2024	Filters and its types
			29/02/2024	Working of D.C power supply system
MARCH	6th	1	07/03/2024	Transistor, Different types of Transistor
	7th	2	12/03/2024	MONTHLY TEST 1

			14/03/2024	Configuration and state output and input current gain relationship in CE, CB and CC configuration
	8th	2	19/03/2024	Discussion of results of Monthly Test 1
			21/03/2024	Need of biasing Different types of biasing with circuit diagram.
	9th	1	28/03/2024	Amplifiers(concept) , working principles of single phase CE amplifier
APRIL	10th	2	02/04/2024	Electronic Oscillator and its classification
			04/04/2024	Working of Basic Oscillator with different elements through simple Block Diagram
	11th	1	09/04/2024	Basic communication system (concept & explanation with help of Block diagram)
	12th	2	16/04/2024	Concept of Modulation and Demodulation, types of Modulation – FM, AM, PM
			18/04/2024	Concept of Transducer and sensor with their differences
	13th	2	23/04/2024	Types of transducers
			25/04/2024	Working principle of photo emissive, photoconductive, photovoltaic transducer and its application
MAY	14th	2	30/04/2024	Working principle of Multimeter with Basic Block diagram
			02/05/2024	Multimeter and its applications Analog and Digital Multimeter and their differences
	15th	2	07/05/2024	CRO, working principle of CRO with simple Block diagram
			09/05/2024	PYQs ,Revision & Doubt Clearance
	16th	1	14/05/2024	PYQs ,Revision & Doubt Clearance

Shradha Patra
29/01/2024
SHRADHA PATRA
PTGF ELECTRICAL
DEPARTMENT
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29/1/24
HOD
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29-1-24
PRINCIPAL
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