



DEPARTMENT OF ELECTRICAL ENGINEERING  
ORISSA SCHOOL OF MINING ENGINEERING KEONJHAR

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LESSON PLAN

Discipline- <b>MATHEMATICS &amp; SCIENCE</b>	Semester- 1 <sup>st</sup> Section A	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
<b>JANUARY</b>	<b>1st</b>	<b>2</b>	29/01/2024	Introduction & Briefing of the syllabus Basic Concept of Electronics and its application.
			31/01/2024	Basic Concept of Electron Emission & its types
	<b>2nd</b>	<b>2</b>	05/02/2024	Classification of material according to electrical conductivity
			07/02/2024	Difference between Intrinsic & Extrinsic Semiconductor. Difference between vacuum tube & semiconductor.
<b>FEBRUARY</b>	<b>3rd</b>	<b>1</b>	12/02/2024	Principle of working and use of PN junction diode
	<b>4th</b>	<b>2</b>	19/02/2024	Zener diode and Light Emitting Diode (LED)
			21/02/2024	Integrated circuits (I.C) & its advantages
	<b>5th</b>	<b>2</b>	26/02/2024	Rectifiers, its working principle and types of rectifiers
			28/02/2024	Filters and its types
<b>MARCH</b>	<b>6th</b>	<b>2</b>	04/03/2024	Working of D.C power supply system
			06/03/2024	Transistor, Different types of Transistor
	<b>7th</b>	<b>2</b>	11/03/2024	MONTHLY TEST I

			13/03/2024	Configuration and state output and input current gain relationship in CE,CB and CC configuration
	8th	2	18/03/2024	Discussion of results of Monthly Test 1
			20/03/2024	Need of biasing
		9th	1	27/03/2024
APRIL	10th	1	03/04/2024	Amplifiers(concept) , working principles of single phase CE amplifier
	11th	2	08/04/2024	Electronic Oscillator and its classification
			10/04/2024	Working of Basic Oscillator with different elements through simple Block Diagram
	12th	1	15/04/2024	Basic communication system (concept & explanation with help of Block diagram)
	13th	2	22/04/2024	Concept of Modulation and Demodulation, types of Modulation – FM,AM,PM
			24/04/2024	Concept of Transducer and sensor with their differences
	14th	2	29/04/2024	Types of transducers
			01/05/2024	Working principle of photo emissive, photoconductive, photovoltaic transducer and its application
MAY	15th	2	06/05/2024	Working principle of Multimeter with Basic Block diagram
			08/05/2024	Multimeter and its applications Analog and Digital Multimeter and their differences
	16th	1	13/05/2024	CRO, working principle of CRO with simple Block diagram
				PYQs ,Revision & Doubt Clearance

Shradha Patra  
29/01/2024

SHRADHA PATRA  
PTGF ELECTRICAL  
DEPARTMENT  
OSME KEONJHAR

29/1/24

HOD  
ELECTRICAL  
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29-1-24

PRINCIPAL  
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