DEPARTMENT OF ELECTRICAL ENGINEERING
ORISSA SCHOOL OF MINING ENGINEERING KEONJHAR
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LESSON PLAN

Discipline- MATHEMATICS & SCIENCE	Semester-1st Section B MECH+CIVIL	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: 16/08/2023 To Date: 11/12/2023 Number of weeks- 17

MONTH	WEEK	NO. OF PERIODS AVAILABLE	CLASS DAY	THEORY TOPICS TO BE COVERED
AUGUST	1ST	1	16/08/2023	Introduction & Briefing of the syllabus Basic Concept of Electronics and its application
	2ND	2	21/08/2023	Basic Concept of Electron Emission & its types
			23/08/2023	Classification of material according to electrical conductivit,
	3RD	1	28/08/2023	Difference between Intrinsic & Extrinsic Semiconductor Difference between vacuum tube & semiconductor.
SEPTEMBER	4TH	1	04/09/2023	Principle of working and use of PN junction diode, Zener diode and Light EmittingDiode (LED)
	5TH	2	11/09/2023	Integrated circuits (I C) & its advantages
			13/09/2023	Rectifiers, its working principle and types of rectifiers
	6TH	1	18/09/2023	Filters and its types
	7TH	2	25/09/2023	
			27/09/2023	Working of D.C power supply system
	8TH	1	04/10/2023	Transistor, Different types of Transistor Configuration and state output and input current gain relationship in CE,CB and CC configuration
OCTOBER	9TH	2	09/10/2023	Need of biasing and explain different types of biasing with circuit diagram
			11/10/2023	Amplifiers(concept) working principles of single phase CE amplifier
	10TH	2	16/10/2023	Electronic Oscillator and its classification
			18/10/2023	
	11TH	2	30/10/2023	Working of Basic Oscillator with different elements through simple

			01/11/2023	Block Diagram Basic communication system (concept & explanation with help of Block diagram
NOVEMBER	12TH	2	06/11/2023	Concept of Modulation and Demodulation,
			08/11/2023	Types of Modulation – FM AM PM
	13TH	2	13/11/2023	Concept of Transducer and sensor with their differences Types of transducers
			15/11/2023	Working principle of photoemissive, photoconductive, photovoltaic transducer and its application
	14TH	2	20/11/2023	REVISION OF CHAPTER 1,2
			22/11/2023	REVISION OF CHAPTER 2,3
	15TH	1	29/11/2023	Multimeter and its applications Analog and Digital Multimeter and their differences
DECEMBER	16TH	2	04/12/2023	Working principle of Multimeter with Basic Block diagram
			06/12/2023	CRO, working principle of CRO with simple Block diagram
	17TH	1	11/12/2023	REVISION OF CHAPTER 3,4
TOTAL	17 WEEKS	27 PERIODS		

Shradha Patra
09/08/2023

SHRADHA PATRA
PTGF ELECTRICAL DEPT
OSME KEONJHAR

9/8/23

HOD
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LESSON PLAN

Discipline- MATHEMATICS & SCIENCE	Semester-1st Section D (METALLURGY)	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: 16/08/2023 To Date: 11/12/2023 Number of weeks- 17

MONTH	WEEK	NO. OF PERIODS AVAILABLE	CLASS DAY	THEORY TOPICS TO BE COVERED
AUGUST	1ST	1	17/08/2023	Introduction & Briefing of the syllabus Basic Concept of Electronics and its application
	2ND	2	22/08/2023	Basic Concept of Electron Emission & its types
			24/08/2023	Classification of material according to electrical conductivit
	3RD	2	29/08/2023	Difference between Intrinsic & Extrinsic Semiconductor Difference between vacuum tube & semiconductor
			31/08/2023	Principle of working and use of P-N junction diode, Zener diode and Light EmittingDiode (LED)
SEPTEMBER	4TH	2	05/09/2023	Integrated circuits (I.C.) & its advantages
			07/09/2023	Rectifiers, its working principle and types of rectifiers
	5TH	2	12/09/2023	Filters and its types
			14/09/2023	Working of D.C power supply system
	6TH	1	21/09/2023	Transistor, Different types of Transistor Configuration and state output and input current gain relationship in CE, CB and CC configuration
	7TH	2	26/09/2023	
			28/09/2023	Working of D.C power supply system Transistor, Different types of Transistor Configuration and state output and input current gain relationship in CE, CB and CC configuration
OCTOBER	8TH	2	03/10/2023	
			05/10/2023	Need of biasing and explain different types of biasing with circuit diagram
	9TH	2	10/10/2023	Amplifiers(concept), working

			12/10/2023	principles of single phase C... Electronic Oscillator... classification
	10TH	2	17/10/2023	Working of Basic Oscillator... different elements through... Block Diagram
			19/10/2023	
	11TH	2	31/10/2023	Basic communication system... & explanation with help ... Block diagram
			02/11/2023	Concept of Modulation and Demodulation
	12TH	2	07/11/2023	Types of Modulation - FM AM...
			09/11/2023	REVISION OF CH...
	13TH	2	14/11/2023	Concept of Transducer and sensor with their difference
			16/11/2023	Types of transducer...
NOVEMBER			21/11/2023	Working principle of photo... photoconductive, photo... transducer and its appl...
	14TH	2	23/11/2023	Multimeter and its applications... Analog and Digital Multimeter... their differences... Working principle of C... with Basic Block diagram...
	15TH	2	28/11/2023	CRO, working principle of CRO... simple Block diagram...
			30/11/2023	REVISION OF CH...
	16TH	2	05/12/2023	REVISION OF CH...
DECEMBER			07/12/2023	REVISION OF CH...
TOTAL	16 WEEKS	30 PERIODS		

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09/08/2023

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