GOVT. POLYTECHNIC SAMBALPUR, RENGALI LESSON PLAN(WINTER-2021)

Discipline : ELECTRICAL ENGG.	Semester: 3th Sem	Name of the Teaching Faculty: SUDHANSHU SWAIN
Subject : EEM	No. of Days / per week class allotted : 04	Semester From date : 01.10.2021 To Date : 08.01.2022
Week	Class Day	Topics
1ST WEEK (04-10-2021 TO 09-10-2021)	1st	Chapter 1 (CONDUCTING MATERIAL) 1. 1 Introduction
	2nd	1. 2 Resistivity, factors affecting resistivity
	3rd	3 Classification of conducting materials into low-resistivity and high resistivity materials
2ND WEEK (18-10-2021 TO 23-10-2021)	1st	4 Low Resistivity Materials Application of copper
	2nd	Application of silver and gold Application of lluminium and steel
	3rd	Stranded conductors Bundled conductors Tow resistivity copper alloys
3RD WEEK (25-10-2021 TO 30-10-2021)	1st	1. 8 High Resistivity Materials and their Applications (Tungsten, Carbon, Platinum, Mercury)
	2nd	9 Superconductivity 1. 10 Superconducting materials
	3rd 4th	1. 11 Application of superconductor materials 1. 11 Application of superconductor materials
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4TH WEEK (01-11-2021 TO 06-11-2021)	1st	SEMICONDUCTING MATERIAL (CHAPTER 2)
	2nd	2. 2 Semiconductors
	3rd	2. 4 Excitation of Atoms 5. Insulators, Semiconductors and Conductors , 2.6 Semiconductor Material
		a T Cl - t D and a
5TH WEEK (08-11-2021 TO 13-11-2021)	1st	2. 7 Covalent Bonds
	2nd	2. 8 Intrinsic Semiconductors
	3rd	2. 9 Extrinsic Semiconductors2. 10 N-Type Materials2. 11 P-Type Materials
	4th	12 Minority and Majority Carriers 13 Semi-Conductor Materials
6TH WEEK (15-11-2021 TO 20-11-2021)	1st	2.14 Application of rectifier, photo conducting cell, photo voltaic cell , varisters
	2nd	hall effect generator, solar power.
	3rd	INSULATING MATERAL(CHAPTER 3) 3.1 Introduction, general property of insulating material electrical, visual, mechanical, thermal, chemical property, ageing

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	1st	3.3 Insulating Materials – Classification, properties,
7TH MEEV	2nd	3.3.1 Introduction
7TH WEEK (22-11-2021 TO 27-11-2021)	3rd	3.3.2 Classification of insulating materials on the basis
	4th	chemical structure.
	1st	3.4 Insulating Gases
8TH WEEK (29-11-2021 TO 04-12-2021)	2nd	3.4.1 Introduction.
	3rd	3.4.2 Commonly used insulating gases
	4th	4.1 Introduction
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09TH WEEK (06-12-2021 TO 11-12-2021)	1st	4.2 Dielectric Constant of Permittivity
	2nd	4.3 Polarization
	3rd	4.4 Dielectric Loss
	4th	4.5 Electric Conductivity of Dielectrics and their Break Down
2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	1st	4.6 Properties of Dielectrics.
	2nd	4.7 Applications of Dielectrics
10TH WEEK	3rd	4.7 Applications of Dielectrics
(13-12-2021 TO 18-12-2021)	4th	MAGNETIC MATERIAL(CHAPTER 5) 5.1 Introduction
	4.0	
11TH WEEK (20-12-2021 TO 25-12-2021)	1st	5.2.1 Diamagnetism
	2nd	5.2.2 Para magnetism 5.2.3 Ferromagnetism
	3rd	5.3 magnetization curve
		5.4 Hysteresis
	4th	5.5 Eddy current
		and the second of the second o
12TH WEEK (27-12-2021 TO 01-01-2022)	1st	5.6 Curie Point ,5.7 Magneto- striction
	2nd	5.8 Soft and Hard magnetic Materials
	3rd	5.8.1 Soft magnetic materials
	Siu	5.8.2 Hard magnetic materials
	4th	
	4th	MATERIAL FOR SPECIAL PURPOSES (CHAPTER 6)
	4th	MATERIAL FOR SPECIAL PURPOSES (CHAPTER 6) 6.1 Introduction
	4th	
	4th	6.1 Introduction
	1st	6.1 Introduction 6.2 Structural Materials 6.3 Protective Materials
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13TH WEEK (03-01-2021 TO 08-01-2022)	1st 2nd	6.1 Introduction 6.2 Structural Materials 6.3 Protective Materials 6.3.1 Lead 6.3.2 Steel tapes, wires and strips
13TH WEEK (03-01-2021 TO 08-01-2022)	1st	6.1 Introduction 6.2 Structural Materials 6.3 Protective Materials 6.3.1 Lead 6.3.2 Steel tapes, wires and strips 6.4 Other Materials 6.4.1 Thermocouple materials
	1st 2nd	6.1 Introduction 6.2 Structural Materials 6.3 Protective Materials 6.3.1 Lead 6.3.2 Steel tapes, wires and strips 6.4 Other Materials 6.4.1 Thermocouple materials 6.4.2 Blmetals
	1st 2nd	6.1 Introduction 6.2 Structural Materials 6.3 Protective Materials 6.3.1 Lead 6.3.2 Steel tapes, wires and strips 6.4 Other Materials 6.4.1 Thermocouple materials

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