GOVT. POLYTECHNIC SAMBALPUR LESSON PLAN

Discipline : ELECTRICAL ENGG.	Semester : 3th Sem	Name of the Teaching Faculty : PRITISH KUMAR MOHANTY
Subject : EEM	No. of Days / per week class allotted : 04	Semester From date : 15.09.2022 To Date : 22.12.2022
Week	Class Day	Topics
1ST WEEK 15.09.2022 TO 17.09.2022	15.09.2022	Chapter 1 (CONDUCTING MATERIAL) 1. 1 Introduction 1. 2 Resistivity, factors affecting resistivity
	17.09.2022	1. 3 Classification of conducting materials & low resistivity and high resistivity materials
2ND WEEK 19.09.2022 TO 24.09.2022	19.09.2022	1. 4 Low Resistivity Materials
	21.09.2022	Application of copper
	22.09.2022	Application of silver and gold
	24.09.2022	Application of Buminium and steel
3RD WEEK 26.09.2022 TO 01.10.2022	26.09.2022	1. 5 Stranded conductors
	28.09.2022	1. 6 Bundled conductors
	29.09.2022	1. 7 Low resistivity copper alloys
	01.10.2022	1. 8 High Resistivity Materials and their Applications (Tungsten, Carbon, Platinum, Mercury)
4TH WEEK 10.10.2022 TO 15.10.2022	10.10.2022	1. 9 Superconductivity
	12.10.2022	1. 10 Superconducting materials
	13.10.2022	1. 11 Application of superconductor materials
	15.10.2022	1. 11 Application of superconductor materials
5TH WEEK 17.10.2022 TO 22.10.2022	17.10.2022	SEMICONDUCTING MATERIAL(CHAPTER 2) 2.1 Introduction
	19.10.2022	2. 2 Semiconductors 2.3Electron energy and Energy band theory
	20.10.2022	2. 4 Excitation of Atoms
	22.10.2022	2. 5 Insulators, Semiconductors and Conductors , 2.6 Semiconductor Material
6TH WEEK 26.10.2022 TO 29.10.2022	26.10.2022	2. 7 Covalent Bonds & 2.8 Intrinsiv Semiconductor EXTRENSIVE SEMICONDUCTOR
	27.10.2022	2. 9 Extrinsic Semiconductors 2. 10 N-Type Materials 2. 11 P-Type Materials
	29.10.2022	2. 12 Minority and Majority Carriers 2. 13 Semi-Conductor Materials
7TH WEEK 31.10.2022 TO 05.11.2022	31.10.2022	2.14 Application of rectifier, photo conducting cell, photo voltaic cell , varisters
	02.11.2022	hall effect generator, solar power.
	03.11.2022	INSULATING MATERAL(CHAPTER 3) 3.1 Introduction,general property of insulating material
	05.11.2022	electrical, visual, mechanical, thermal, chemical property, ageing
8TH WEEK 07.11.2022 TO 12.11.2022	07.11.2022	3.3 Insulating Materials – Classification, properties, applications
	09.11.2022	3.3.1 Introduction
	10.11.2022	3.3.2 Classification of insulating materials on the basis physical structure
	12.10.2022	chemical structure.
9TH WEEK 14.11.2022 TO 19.11.2022	14.11.2022	3.4 Insulating Gases
	16.11.2022	3.4.1 Introduction.
	17.11.2022	3.4.2 Commonly used insulating gases
	19.11.2022	DIELECTRIC MATERIAL(CHAPTER 4) 4.1 Introduction
10TH WEEK 21.11.2022 TO 26.11.2022	21.11.2022	4.2 Dielectric Constant of Permittivity
	23.11.2022	4.3 Polarization
	24.11.2022	4.4 Dielectric Loss
	26.11.2022	4.5 Electric Conductivity of Dielectrics and their Break Down
11TH WEEK 28.11.2022 TO 03.12.2022	28.11.2022	4.6 Properties of Dielectrics.
	30.11.2022	4.7 Applications of Dielectrics
	01.12.2022	4.7 Applications of Dielectrics
	03.12.2022	MAGNETIC MATERIAL(CHAPTER 5) 5.1 Introduction
12TH WEEK 05.12.2022 TO 10.12.2022	05.12.2022	5.2 Classification 5.2.1 Diamagnetism 5.2.2 PARAMAGNETISM
	07.12.2022	5.2.3 Ferromagnetism 5.3 magnetization curve
	08.12.2022	5.4 Hysteresis 5.5 Eddy current
	10.12.2022	5.6 Curie Point ,5.7 Magneto- striction
13TH WEEK 12.12.2022 TO 17.12.2022	12.12.2022	5.8.1 Soft magnetic materials 5.8.2 Hard magnetic materials
	14.12.2022	MATERIAL FOR SPECIAL PURPOSES(CHAPTER 6) 6.1 Introduction
	15.12.2022	6.2 Structural Materials & 6.3 PROTECTIVE MATERIALS
	17.12.2022	6.3.2 Steel tapes, wires and strips 6.4 Other Materials
14TH WEEK 19.12.2022 TO 22.12.2022	19.12.2022	6.4.1 Thermocouple materials 6.4.2 BIMETALS, 6.4.3 SOLDERING MATERIALS
	21.12.2022	6.4.4 Fuse and Fuse materials 6.4.5 Dehydrating material
	22.12.2022	REVISION

15/09/22