LESSON PLAN-2023(WINTER 2023)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline-ELECTRICAL	Semester-3rd	Name of teaching faculty- SUBASH CH. SWAIN
SUBJECT-Electrical Engineering Material	No of days/ per week class alloted-5	SEM From date- 01/08/2023 No of weeks-17
Week	Class day	Theory Topics
1ST	01.08.2023	1. 1 Introduction 1. 2Resistivity, factors affecting resistivity
	02.08.2023	1. 3Classification of conducting materials into low-resistivity and high resistivity materials
	03.08.2023	1. 4 Low Resistivity Materials and their Applications 1. 4.1 Copper
	04.08.2023	1. 4.2 Silver 1. 4.3 Gold
2ND	07.08.2023	1. 4.4 Aluminum 1. 4.5 Steel
	08.08.2023	1. 5 Stranded conductors
	09.08.2023	1. 6Bundled conductors
	10.08.2023	1. 7 Low resistivity copper alloys
	11.08.2023	1 .8.1High Resistivity Materials and their Applications 1.8.2. Tungsten 1.8.3 Carbon
	12.08.2023	1.8. Platinum 1.8. Mercury
3RD	14.08.2023	1. 9 Superconductivity
	16.08.2023	1. 10 Superconducting materials
	17.08.2023	1. 11 Application of superconductor materials
	18.08.2023	Revision
	19.08.2023	Class Test
4TH	21.08.2023	2. 1 Introduction 2. 2 Semiconductors
	22.08.2023	2. 3 Electron Energy and Energy Band Theory
	23.08.2023	2. 4 Excitation of Atoms
	24.08.2023	2. 5 Insulators, Semiconductors and Conductors
	25.08.2023	2. 6 Semiconductor Materials 2. 7 Covalent Bonds
	26.08.2023	2. 7 Intrinsic Semiconductors 2. 8 Extrinsic Semiconductors
5TH	28.08.2023	2. 10 N-Type Materials

		2. 11 P-Type Materials
	29.08.2023	2. 12 Minority and Majority Carriers 2. 13 Semi-Conductor Materials
	30.08.2023	14 Applications of Semiconductor materials 2.14 1 Rectifiers 2.14.2 Temperature-sensitive resisters or thermistors
	31.08.2023	2.14.3 Photoconductive cells 2.14.4 Photovoltaic cells 2.14.5 Varisters
	01.09.2023	2.14.6 Transistors 2.14.7 Hall effect generators
	02.09.2023	2.14.8 Solar power
1ST	04.09.2023	Revision
	05.09.2023	CLASS TEST
	06.09.2023	3. 1 Introduction 3. 2 General properties of Insulating Materials 3.2.1 Electrical properties
	07.09.2023	3.2.2 Visual properties 3.2.3 Mechanical properties 3.2.4 Thermal properties
	08.09.2023	3.2.5 Chemical properties 3.2.6 Ageing
	09.09.2023	DO
2ND	11.09.2023	3.3 Insulating Materials – Classification, properties, applications 3.3.1 Introduction
	12.09.2023	3.3.2 Classification of insulating materials on the basis physical and chemical structure
	13.09.2023	do
	14.09.2023	CLASS TEST
	15.09.2023	Dielectric Materials: 4.1 Introduction
	16.09.2023	4.2 Dielectric Constant of Permittivity
3RD	18.09.2023	4.3 Polarisation
	20.09.2023	DO
	21.09.2023	4.4 Dielectric Loss
	22.09.2023	4.5 Electric Conductivity of Dielectrics and their Break Down
	23.09.2023	4.6 Properties of Dielectrics
4TH	25.09.2023	4.7 Applications of Dielectrics
	26.09.2023	Class Test
	27.09.2023	Magnetic Materials:5.1 Introduction
	28.09.2023	5.2 Classification5.2.1 Diamagnetism5.2.2 Para magnetism 5.2.3 Ferromagnetism

	30.09.2023	5.3 Magnetization Curve5.4 Hysteresis
1ST	03.10.2023	DO
	04.10.2023	5.5 Eddy Currents
		5.6 Curie Point, 5.7 Magneto-striction
	05.10.2023	5.8 Soft and Hard magnetic Materials 5.8.1 Soft magnetic materials 5.8.2 Hard magnetic materials
	06.10.2023	do
	07.10.2023	Class Test
2ND	09.10.2023	6. Materials for Special Purposes 6.1 Introduction
	10.10.2023	INTERNAL
	11.10.2023	INTERNAL
	12.10.2023	INTERNAL
	13.10.2023	INTERNAL
	14.10.2023	INTERNAL
	16.10.2023	6.2 Structural Materials
	17.10.2023	do
	18.10.2023	6.3 Protective Materials 6.3.1 Lead 6.3.2 Steel tapes, wires and strips
	19.10.2023	do
	20.10.2023	6.4 Other Materials 6.4.1 Thermocouple materials
	30.10.2023	6.4.2 Bimetals
	31.10.2023	6.4.3 Soldering Materials
1ST	01.11.2023	6.4.4 Fuse and Fuse materials
	02.11.2023	6.4.5 Dehydrating material
	03.11.2023	question discussion
	04.11.2023	DO
2ND	06.11.2023	Revision of chapter 1
	07.11.2023	Do
	08.11.2023	Revision of chapter 2
	09.11.2023	Do
	10.11.2023	Revision of chapter 3
	11.11.2023	Do
3RD	13.11.2023	Revision of chapter 4
	14.11.2023	Do
	15.11.2023	Revision of chapter 5
	16.11.2023	Do
	17.11.2023	Revision of chapter 6
	18.11.2023	Do

4TH	20.11.2023	Previous year question discussion
	21.11.2023	Previous year question discussion
	22.11.2023	Previous year question discussion
	23.11.2023	Previous year question discussion
	24.11.2023	Previous year question discussion
	25.11.2023	Previous year question discussion
5TH	27.11.2023	Previous year question discussion
	28.11.2023	Previous year question discussion
	29.11.2023	Previous year question discussion
	30.11.2023	Previous year question discussion

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