LESSON PLAN DEPARTMENT OF ELECTRICAL ENGINEERING, ITT, CHOUDWAR

SUBJECT: EEM

Periods: 4 per week

SEMESTER: 3rd

NAME OF FACULTY: Monalisa Swain

No. of weeks: 15

1st 1st Conducting Materials: - Introduction 2nd Resistivity, factors affecting resistivity 3rd Classification of conducting materials into low-resistivity and high resistivity materials 4dh Low Resistivity Materials and their Applications. (Gold, Aluminum, Steel) 2nd 1st Low Resistivity Materials and their Applications. (Gold, Aluminum, Steel) 3rd Branded conductors Bandled conductors 3rd Bundled conductors Conversistivity Copper alloys 2nd Low resistivity copper alloys continue Bandled conductors 3rd High Resistivity Materials and their Applications (Tungsten, Carbon) 4th High Resistivity Materials and their Applications (Platinum, Mercury) 3rd High Resistivity Materials and their Applications (Platinum, Mercury) 4th 1st Superconductivity continues 2nd Superconducting Materials: - Introduction, Semiconductors 2nd Superconductors and Conductors 2nd Semiconductors and Conductors 2nd Semiconductors and Conductors 2nd Semiconductor Materials, Covalent Bonds 6th 1st Insulators, Semiconductor materials 2nd Mino	Week	Period	Theory / Practical Topics
3 rd Classification of conducting materials into low-resistivity and high resistivity materials 4 th Low Resistivity Materials and their Applications. (Copper, Silver) 2 rd 1 st Low Resistivity Materials and their Applications. (Gold, Aluminum, Steel) 3 rd Stranded conductors (Gold, Aluminum, Steel) 3 rd Bundled conductors (Gold, Aluminum, Steel) 3 rd 1 st Low resistivity copper alloys continue 2 rd Low resistivity copper alloys continue 3 rd High Resistivity Materials and their Applications (Tungsten, Carbon) 4 th High Resistivity Materials and their Applications (Platnum, Mercury) 4 th Superconductivity continues 2 ^{rdd} Superconducting materials 4 th Application of superconductor materials 5 th 1 st Semiconductor gang Band Theory, Excitation of Atoms 3 ^{rdd} Insulators, Semiconductors materials 4 th Semiconductor Materials, Covalent Bonds 4 th Semiconductor Materials, Covalent Bonds 4 th Semiconductor Materials 2 ^{rdd} Insulators, Semiconductor materials 2 ^{rdd} Nirority and Majority Carriers, Semi-	1st	1^{st}	Conducting Materials: - Introduction
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			Dielectric Materials: - Introduction

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	2 nd	Polarization
	3 rd	Polarization continues
	4 th	Dielectric Loss
11 th	1^{st}	Electric Conductivity of Dielectrics and their Break Down
	2^{nd}	Properties of Dielectrics.
	3 rd	Applications of Dielectrics
	4 th	Magnetic Materials: - Introduction, Classification
12 th	1 st	Diamagnetism, Para magnetism, Ferromagnetism
	2^{nd}	Magnetization Curve
	3 rd	Hysteresis
	4 th	Eddy Currents, Curie Point
13 th	1 st	Magneto-striction
	2^{nd}	Soft magnetic materials
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	4 th	Materials for Special Purposes: -Introduction
14 th	1^{st}	Structural Materials
	2^{nd}	Protective Materials - Lead
	3 rd	Protective Materials - Steel tapes, wires and strips
	4 th	Other Materials - Thermocouple materials
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	2^{nd}	Soldering Materials
	3 rd	Fuse and Fuse materials.
	4 th	Dehydrating material.

Teaching Faculty