

## LESSON PLAN

<b>Discipline : Electrical Engg.</b>	<b>Semester : 3rd</b>	<b>Name of the Teachnig Faculty : MRS. MONALISA PANI</b>
<b>Subject : ELECTRICAL ENGINEERING MATERIAL</b>	<b>No.of days/Per weeks Class Alloted Weeks :4</b>	<b>Semester :3rd No.of Weeks : 4</b>
<b>Weeks</b>	<b>Class day</b>	<b>Theory</b>
<b>1st</b>	1st	Conducting Materials
	2nd	Introduction
	3rd	Stranded conductors
	4th	Resistivity, factors affecting resistivity
<b>2nd</b>	1st	Classification of conducting materials into low-resistivity and high resistivity materials
	2nd	Low Resistivity Materials and their Applications. (Copper, Silver, Gold, Aluminum, Steel)
	3rd	Bundled conductors
	4th	Low resistivity copper alloys
<b>3rd</b>	1st	High Resistivity Materials and their Applications(Tungsten, Carbon, Platinum, Mercury)
	2nd	Superconductivity
	3rd	Superconducting materials
	4th	Application of superconductor materials
<b>4th</b>	1st	<b>Class Test</b>
	2nd	Semiconducting Materials
	3rd	Introduction
	4th	Electron Energy and Energy Band Theory
<b>5th</b>	1st	Excitation of Atoms
	2nd	Insulators, Semiconductors and Conductors
	3rd	Semiconductor Materials , Covalent Bonds
	4th	Intrinsic Semiconductors, Extrinsic Semiconductors
<b>6th</b>	1st	N-Type Materials , P-Type Materials
	2nd	Minority and Majority Carriers
	3rd	Applications of Semiconductor materials
	4th	Rectifiers , Temperature-sensitive resistors or thermistors,Photoconductive cells
<b>7th</b>	1st	Photovoltaic cells, Varistors, Transistors, Hall effect generators, Solar power
	2nd	Insulating Materials : Introduction
	3rd	General properties of Insulating Materials, Electrical properties
	4th	Visual properties, Mechanical properties
<b>8th</b>	1st	Thermal properties, Chemical properties, Ageing
	2nd	Insulating Materials – Classification, properties, applications , Introduction
	3rd	Classification of insulating materials on the basis physical and chemical structure

