Discipline: Semester:3rd Som Name College					
Discipline:		Semester:3rd Sem	Name of the Transition of the		
Electrical		and a semi	Name of the Teaching Faculty: Mrs. Jayashree Mohanty (5r. 1ect.		
Subject:	Date		21166/		
Electrical	Dute		Semester From Date:-01.07.24 to Date:- 08.11.24 No. of Weeks:18		
	,	4P/Week			
Engineering					
Material					
1st Week	02.07.24		Conducting Materials Introduction		
	03.07.24	2nd	Resistivity, factors affecting resistivity		
	04.07.24	3rd	Classification of conducting materials into low-resistivity and high		
		5	resistivity materials		
	05.07.24	4th	Low Resistivity Materials and their Applications. (Copper, Silver, Gold,		
			Aluminum, Steel)		
2nd Week	09.07.24	1st	Stranded conductors, Bundled conductors		
	10.07.24	2nd	Low resistivity copper alloys		
	11.07.24		High Resistivity Materials		
	12.07.24		Their Applications(Tungsten, Carbon, Platinum, Mercury)		
3rd Week	16.07.24	1 1000000000	Superconductivity, Superconducting materials		
3.2	18.07.24		Application of superconductor materials		
	19.07.24		Semiconducting Materials Introduction		
4th Week	23.07.24		Semiconductors		
I this week	24.07.24		Electron Energy and Energy Band Theory		
	25.07.24		Excitation of Atoms		
	26.07.24		Insulators, Semiconductors and Conductors		
5th Week	30.07.24		Semiconductor Materials		
	31.07.24		Covalent Bonds		
	01.08.24	1 3rd	Intrinsic Semiconductors, Extrinsic Semiconductors		
	02.08.24		CLASS TEST/ASSIGNMENT/QUIZ		
6th Week	06.08.24	4 1st	N-Type Materials,P-Type Materials		
	07.08.24	4 2nd	Minority and Majority Carriers		
	08.08.2	4 3rd	Semi-Conductor Materials		
1	09.08.2	4 4th	Applications of Semiconductor materials, Rectifiers, Temperature-		
			sensitive resisters or thermistors		
			1 · · · · · · · · · · · · · · · · · · ·		
7th Week	13.08.2	4 1st	Photoconductive cells, Photovoltaic cells		
	14.08.2	4 2nd	Varisters, Transistors		
	16.08.2	4 3rd	Hall effect generators, Solar power		
8th Week	20.08.2	4 1st	Insulating Materials Introduction		
	21.08.2	4 2nd	General properties of Insulating Materials, Electrical properties, Visual		
			properties, Mechanical properties		
	22.08.2		Thermal properties, Chemical properties, Ageing		
	23.08.2	4 4th	Insulating Materials — Classification, properties,		
211111111111111111111111111111111111111	127.55	44.4	applications, Introduction .		
9th Week			Classification of insulating materials on the basis physical and chemical		
	28.08.2		Insulating Gases, Introduction		
	29.08.2		Commonly used insulating gases		
	30.08.2		Dielectric Materials, Introduction		
10th Wee	k 03.09.2	4 1st	Dielectric Constant of Permittivity		
	04.09.2	4 2nd	Polarization, Dielectric Loss		

,			Electric Conductivity of Dielectrics and their Break Down
	05.09.24		Properties of Dielectrics
	06.09.24		hardiestions of Dielectrics
	10.09.24		Magnetic Materials Introduction Magnetic Materials Introduction Para magnetism and Ferromagnetism
	11.09.24	2nd	Magnetic Materials Introduction Classification of Diamagnetism, Para magnetism and Ferromagnetism
	12.09.24	3rd	
	13.09.24	4th	Magnetization Curve and Hysteresis
12th Week	17.09.24		
	18.09.24		Eddy Currents, Curie Point, Magneto School Soft and Hard magnetic Materials (i) Soft magnetic materials (ii) Hard
	10.03.24	2110	magnetic materials
	19.09.24	3rd	Materials for Special Purposes Introduction
	20.09.24		CLASS TEST/ASSIGNMENT/QUIZ
13th Week	24.09.24		Structural Materials
	25.09.24		Protective Materials, Lead
	26.09.24		Steel tapes, wires and strips
	27.09.24		Other Materials, Thermocouple materials
14th Week	01.10.24		Bimetals
	03.10.24	2nd	Soldering Materials
	04.10.24	3rd	Fuse and Fuse materials -
15th Week	15.10.24	1st	Dehydrating material.
	17.10.24	2nd	Tutorial
	18.10.24	3rd	Tutorial
16th Week	22.10.24	1st	Tutorial
	23.10.24	2nd	Tutorial
	24.10.24	3rd	Tutorial
	25.10.24	4th	QUIZ
17th Week	29.10.24	1st	Tutorial
	30.10.24	1 2nd	Tutorial
	01.11.24		Tutorial
18th Week			Tutorial
	06.11.24		Tutorial
	07.11.2	_	Tutorial
	08.11.2	4 4th	Tutorial