	GOVT. POLYTECHNIC MAYURBHANJ LESSON PLAN							
Disc	ipline :	Semester: 3th Sem		Name of the Teaching Faculty :Laxmidhar Sahu				
Subject : EEM		No. of Days /		Semester From date : 01.08.2023 To Date : 30.11.2023				
		per week class allotted : 04						
MONTH	Week	Day	UNIT	Topics				
	1ST	2nd	UNIT-1	1.Conducting Materials				
				Introduction. Resistivity, factors affecting resistivity				
		4th		Classification of conducting materials into low-resistivity and high resistivity materials				
		5th		Low Resistivity Materials and their Applications. (Copper, Silver, Gold, Aluminum, Steel)				
		1st		Low Resistivity Materials and their Applications. (Gold, Aluminum, Steel)				
	2ND	2nd		Bundled conductors, Stranded conductors				
		4th		Low resistivity copper alloys.				
		5th		High Resistivity Materials and their Applications(Tungsten, Carbon, Platinum, Mercury)				
E		1st		Superconductivity. Superconducting materials. Application of superconductor materials				
SUS		2nd		Independance Day				
AUGUST	3RD	4th		Question Discussion				
A		5th		2.Semiconducting Materials				
		5111		Introduction. Semiconductors				
		1st		Electron Energy and Energy Band Theory				
	4TH	2nd		Excitation of Atoms				
		4th		Insulators, Semiconductors and Conductors				
		5th		Semiconductor Materials				
	5TH	1st		Covalent Bonds. Intrinsic Semiconductors. Extrinsic Semiconductors				
		2nd		N-Type Materials. P-Type Materials				
		4th		Minority and Majority Carriers. Semi-Conductor Materials				
	1ST	5th		Applications of Rectifiers, Temperature-sensitive resisters or thermistors				
	2ND	1st		Photoconductive cells, Applications of Photovoltaic cells Varisters				
		2nd		Transistors, Hall effect generators ,Solar power				
		4th		Question Discussion				
		541		3.Insulating Materials:				
EMBER		5th		Introduction-General properties of Insulating Materials				
	3RD	1st		Electrical properties, Visual properties				
		2nd		Mechanical properties, Thermal properties				
		4th		Chemical properties, Ageing				
		5th	UNIT-3	Class Test-1				

SEPTI		1st		Insulating Materials-Classification of insulating materials on the basis physical and chemical
SE	4TH			structure
		2nd		Ganesh Puja
		4th		Insulating Gases -Introduction.Commonly used insulating gases
		5th		Question Discussion
	5TH	1st		4.Dielectric Materials:
				Introduction- Dielectric Constant of Permittivity
		2nd		Polarization
		4th		Dielectric Loss,Explanation with phasor angle
		5th	UNIT-4	Electric Conductivity of Dielectrics and their Break Down
		1st	01111-4	Gandhi Jayanti
	1ST	2nd		Properties of Dielectrics.
	151	4th		Applications of Dielectrics.
		5th		Birthday of Mohammad
		1st		Question Discussion
		2md		5.Magnetic Materials:
	2ND	2nd	UNIT-5	Introduction-Classification of magnetic material, Diamagnetism
~		4th		Para magnetism, Ferromagnetism
OCTOBER		5th		Magnetization Curve
	3RD	1st		Hysteresis
C		2nd		Magneto-striction
0		4th		Soft and Hard magnetic Materials
		5th		Internal Exam
	4TH	1st		Durga Puja
		2nd		
		4th		
		5th		
	5TH	1st		Revision
		2nd		
	1ST	4th		Question Discussion
3ER		5th		6.Materials for Special Purposes
				Introduction to spacial purpose Materials
	2ND -	1st		Structural Materials
		2nd		Protective Materials- Lead
		4th		Protective materials - Steel tapes, wires and strips
		5th		Thermocouple materials
		1st		Bimetals
		181		ווועומוס

NOVEME	3RD	2nd		Soldering Materials
		4th		Fuse and Fuse materials.
		5th		Dehydrating material.
	4TH	1st		Revision
		2nd		
		4th		Question Discussion
		5th		Question Discussion
	5 TH	1st		Rasa Purnima
		2nd		Question Discussion
		4th		Class Test-2