Lesson Plan

Subject Electrical Engineering (Code) Th-4 Name of faculty Amiya ranjan Behera

Semester 3rd Class allotted 4P/week Branch ELECTRICAL

Discipline	Semester	From date	To date	
Subject	No. of days/ per week	Theory/ Practical - Topics/Lesson		Teaching Aid
Week	Date/Period			
1	15/09/22 to 16/09/22	Introduction, Resistivity, factors affecting resistivity, classification of conductions materials into low resistivity and high resistivity materials. Low Resistivity materials and their Applications.		White board & Markers
2	19/09/22 to 24/09/22	Stranded conductors, Bundled conductors. Low resistivity copper alloys. High Resistivity materials and their Application (Tungsten, Carbon, Platinum, mercury)		White board & Markers
3	26/09/22 to 01/10/22	Super Conductivity. Super Conductivity materials. Application of super conductor materials, Introduction.		
4	10/10/22 to 15/10/22	Semiconductors Electron Energy and Energy Band Theory. Excitation of Atoms Insulators. Semi conductors and conductors, semiconductor material		White board & Markers
5	17/10/22 to 22/10/22	covalent Bonds Intrinsic Semi conductors. Extrinsic Semi conductors. N-Type materials. P-Type Materials.		
6	25/10/22 to 29/10/22	minority and majority carriers Semi-conductor materials. Application of Semiconductor materials.		White board & Markers
7	31/10/22 to 05/11/22	Rectifiers, Temperature-sensitive resistors or thermistors. Photo Voltaic cells. Varistor. Transistors Hall effect generators.		White board & Markers

For Samantinanda Mohanty
Signature of HOD

Amiya Ranjan Behera
Signature of faculty

Week	Date/Period	Theory/ Practical – Topics/Lesson	Teaching
8	7/11/22 to 12/11/22	Solar Power, Introduction General Properties of Insulations materials. Electrical Properties. Visual Properties mechanical Properties.	White board & Marker
9	14/11/22 to 19/11/22	Thermal Properties, chemical Properties Ageing insulation materials - classification, Properties, applications. Introduction.	White board & Marker
10	21/11/22 to 26/11/22	classification of insulations materials on the basis physical and chemical Structure insulating Gases. Introduction commonly used insulating gases.	White board & Marker
11	28/11/22 to 03/12/22	Introduction, Dielectric constant of permittivity. Polarization Dielectric Loss. Electric conductivity of Dielectrics and their Break Down.	White board & Marker
12	05/12/22 to 10/12/22	Properties of Dielectrics Applications of Dielectrics Introduction classification Diamagnetism ferromagnetic magnetization Curve.	White board & Marker
13	12/12/22 to 17/12/22	Hysteresis, Eddy currents Curie Point. magnetostriction. soft and Hard magnetic materials, soft magnetic materials.	White board & Marker
14	19/12/22 to 22/12/22	Hard magnetic materials. Introduction Structural materials Protective materials Lead. Steel types, wires and strips. Other materials.	White board & Marker
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For
Srinivasa Mohanty
Signature of HOD

Amrita Agrawalla
Signature of faculty