

Electrical Engineering Materials.

LESSON PLAN

Degree/Diploma/+2 Science
(Theory/Pract/Lab/Workshop)

Semester 2nd Semester Branch Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
15.9.22	TH-4 EEM	Introduction, Resistivity, factors affecting resistivity.	01
19.9.22	"	Classification of conducting materials, low resistivity materials and their applications.	01
20.9.22	"	Copper, Silver, Gold, Aluminium, Steel	01
21.9.22	"	Stranded conductors, rounded conductors.	01
22.9.22	"	Low resistivity copper alloys	01
23.9.22	"	High resistivity materials and their applications.	01
26.9.22	"	Tungsten, Carbon, platinum, Mercury.	01
27.9.22	"	Super conductivity	01
28.9.22	"	Super conducting materials	01
29.9.22	"	Application of super conducting materials	01
30.9.22	"	<u>Semiconducting materials</u>	01
10.10.22	"	Introduction, Semi conductors, Electron energy and energy band theory, excitation of atoms.	01
11.10.22	"	Insulators, Semiconductors and Conductors.	01
12.10.22	"	Semiconductors materials	01
13.10.22	"	Intrinsic Semiconductors.	01

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Semester 2nd Semester Branch Electrical

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
15.9.22	TH-4 EEM	34	Introduction, resistivity, factors affecting resistivity.		
19.9.22	"	32	Classification of conducting materials and their applications.		
20.9.22	"	27	Copper, Silver, Gold, Aluminium, Steel.		
21.9.22	"	30	Stranded conductors, rounded conductors.		
22.9.22	"	31	Low resistivity copper alloys.		
23.9.22	"	31	High resistivity materials and their applications.		
26.9.22	"	30	Tungsten, Carbon, platinum, Mercury.		
27.9.22	"	27	Super conductivity.		
28.9.22	"	32	Super conducting materials.		
29.9.22	"	32	Applications of Super Conducting materials		
30.9.22	"	30	<u>Semiconducting materials</u> Introduction, Semiconductors.		
10.10.22	"	30	Electron energy and energy band theory. Excitation of atoms.		
11.10.22	"	28	Insulators, Semiconducting and Conductors		
12.10.22	"	30	Semiconductor materials		
13.10.22	"	29	Intrinsic Semiconductors		

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Semester 3rd semester Branch Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
14.10.22	TPI-4 EEM	Extrinsic semiconductors.	01
17.10.22	"	N-Type materials P-Type materials	01
18.10.22	"	Minority and majority carriers.	01
19.10.22	"	semiconductor materials, rectifiers, Thermistors.	01
20.10.22	"	Photoconductive cells, photovoltaic cell Transistors.	01
21.10.22	"	Hall effect, Solar power	01
26.10.22	"	<u>Insulating materials</u> Introduction General property of insulating materials.	01
27.10.22	"	Electrical property volumetric property	01
28.10.22	"	Mechanical properties	01
29.10.22	"	Thermal properties Chemical properties Ageing	01
31.10.22	"	classification of insulating materials on the basis of physical and chemical structure.	01
1.11.22	"	Insulating gases	01
2.11.22	"	commonly used insulating gases.	01
3.11.22	"	Doublet clear class on insulating materials	01
4.11.22	"	<u>Dielectric Materials</u> Introduction, dielectric constant and permittivity.	01

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Semester 3rd semester Branch Electrical

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Directr
14.10.22	TPI-4 EEM	24	Extrinsic semiconductors		
17.10.22	"	28	N-Type materials P-Type materials		
18.10.22	"	25	Minority and majority carriers.		
19.10.22	"	26	semiconductor materials, rectifiers, Thermistors.		
20.10.22	"	19	Photoconductive cells, photovoltaic cells, Transistors.		
21.10.22	"	30	Hall effect, Solar power		
26.10.22	"	31	<u>Insulating materials</u> Introduction General property of insulating materials.		JPZ
27.10.22	"	32	Electrical property volumetric property		
28.10.22	"	29	Mechanical properties Thermal properties		
29.10.22	"	31	Chemical properties Ageing		
31.10.22	"	29	Classification of insulating materials on the basis of physical and chemical structure.		
1.11.22	"	31	Insulating gases		
2.11.22	"	33	Commonly used insulating gases.		
3.11.22	"	33	Revision		
4.11.22	"	27	<u>Dielectric materials</u> Introduction, dielectric constant and permittivity		

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Semester 3rd Branch Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
5.11.22	TH-4 EEM	polarization	01
7.11.22	"	dielectric loss	01
10.11.22	"	Electric conductivity of dielectrics and their breakdown	01
11.11.22	"	properties of Dielectrics.	01
12.11.22	"	Applications of Dielectrics	01
14.11.22	"	Doubt clear class on dielectric materials.	01
15.11.22	"	<u>Magnetic Materials</u> Introduction, Classification	01
17.11.22	"	Die magnetism, para magnetism	01
18.11.22	"	Ferromagnetism, magnetization curves, Hysteresis's.	01
19.11.22	"	Eddy currents, curie point.	01
21.11.22	"	Magnetostriction.	01
22.11.22	"	Soft magnetic materials	01
23.11.22	"	Hard magnetic materials	01
24.11.22	"	Doubt clear class on Magnetic materials.	01
25.11.22	"	<u>Materials of Special Purpose</u> Introduction.	01

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Semester 3rd Branch Electrical

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
5.11.22	TH-4 EEM	31	polarization		
7.11.22	"	28	Dielectric loss		
10.11.22	"	25	Electric conductivity of dielectrics and their breakdown.		
11.11.22	"	32	properties of Dielectrics		
12.11.22	"	30	Applications of dielectrics		
14.11.22	"	31	Revision.		
15.11.22	"	33	<u>Magnetic Materials</u> Introduction, classification		
17.11.22	"	30	Die magnetism, para magnetism.		
18.11.22	"	28	Ferromagnetism, Magnetization curves Hysteresis.		
19.11.22	"	31	Eddy currents curie point.		
21.11.22	"	32	Magnetostriction		
22.11.22	"	28	Soft magnetic materials		
23.11.22	"	29	Hard magnetic materials		
24.11.22	"	30	Revision		
25.11.22	"	33	<u>Materials of Special Purpose</u> Introduction.		

