

Utilization of _____

LESSON PLAN

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

Semester 5th Branch Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
15.9.22	TH-4 UEEST	<u>Electrolytic processes</u> Definition & basic principles of electro deposition.	01
19.9.22	"	Important terms regarding electrolysis.	01
20.9.22	"	Faraday's laws of electrolysis.	01
24.9.22	"	Definition of current efficiency, Energy efficiency, principles of electro deposition.	01
22.9.22	"	Factors affecting the amount of electro deposition. Factors governing electro deposition.	01
23.9.22	"	problems & its solution	01
25.9.22	"	solution to different problems, Applications of electrolysis.	01
27.9.22	"	Reversing.	01
28.9.22	"	<u>Electric Heating</u> Advantages of electric heating	01
29.9.22	"	Modes of heat transfer and stephen's law.	01
30.9.22	"	Principles of resistance heating (direct & indirect)	01
10.10.22	"	working principle of direct arc furnaces and indirect arc furnaces Principles of induction heating.	01
11.10.22	"	Principles of electric heating and its applications.	01
12.10.22	"	Principles of microwave heating and its applications	01
13.10.22	"	Principles of arc welding.	01

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Semester 5th 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 UEEST	9	Electrolytic processes Definition and basic principles of electro deposition.		
19.9	"	9	Important terms regarding electrolysis		
20.9	"	9	Faraday's laws of electrolysis.		
21.9	"	9	Definition of current efficiency, energy efficiency, principles of electro deposition.		
22.9	"	9	Factors affecting the amount of electro deposition. Factors governing electro deposition.		
23.9	"	9	Solution to some problems.		
26.9	"	9	solution to problems		
27.9	"	9	Reversing & don't clear class.		
28.9	"	9	<u>Electric Heating</u> Advantages of electric heating.		
29.9	"	9	Modes of heat transfer and stephen's law		
30.9	"	8	Principles of direct and indirect resistance heating.		
10.10	"	8	working principles of direct and indirect arc furnaces, principles of induction heating.		
11.10	"	7	Principles of direct heating and its applications.		
12.10	"	8	Principles of microwave heating and its applications		
13.10	"	8	Principles of arc welding		

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Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
14.10.22	TH-4 DEEST	DC & AC arc phenomena.	01
18.10.22	"	DC & AC arc welding plants of single and multi-operation type.	01
19.10.22	"	Types of Arc welding	01
20.10.22	"	Principles of resistance welding.	01
21.10.22	"	Different resistance welding methods.	01
26.10.22	"	<u>Illumination</u> Nature of radiation and its spectrum. Different terms and its definitions.	01
27.10.22	"	Inverse square law and cosine law.	01
28.10.22	"	Photocurves, light distribution & control and related definitions.	01
29.10.22	"	Design of simple lighting schemes.	01
31.10.22	"	Working & constructional features of filament lamps. Effect of variation of voltage on working of filament lamps.	01
01.11.22	"	Gas discharge lamps.	01
02.11.22	"	Fluorescent lamps, construction, working principle.	01
03.11.22	"	Sodium vapour lamps.	01
04.11.22	"	Mercury vapour lamps. Neon sign lamps.	01
05.11.22	"	Solution to problems.	01

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Semester 5th 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
14.10.22	TH-4 DEEST	8	DC and AC arc phenomena		
18.10	"	8	AC & DC arc welding		
19.10	"	7	Types of arc welding		
20.10	"	7	Principles of resistance welding		
21.10	"	9	Different resistance welding methods.		
26.10	"	9	<u>Illumination</u> Radiation nature & its spectrum, Definition of different terms.		
27.10	"	9	Inverse square law and cosine law.		
28.10	"	9	Photocurves, light distribution and control and related definitions.		
29.10	"	9	Design of simple lighting schemes		
31.10	"	9	Working and constructional features of filament lamps. Effect of variation of voltage on working of filament lamps.		
1.11	"	9	Gas discharge lamps		
2.11	"	9	Fluorescent lamps, construction, working principle		
3.11	"	9	Sodium vapour lamps		
4.11	"	9	Mercury vapour lamps Neon sign lamps		
5.11	"	8	Solution to different problems		

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Semester 5th Branch Electrical

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
07-11-22	TH-4 CEEST	Industrial Drives Group drive and individual drive.	01
10-11-22	"	Methods of choice of electric drives. Starting & running characteristics of DC & AC motor	01
11-11-22	"	Applications of DC motor, 3- ϕ IPM, 3- ϕ Synchronous motor, 1- ϕ Series motor.	01
12-11-22	"	Universal meters, Repulsion meters.	01
14-11-22	"	Solution to different problems.	01
15-11-22	"	Solution to different problems.	01
17-11-22	"	Electric Traction Systems of traction.	01
18-11-22	"	System of track-electrification.	01
19-11-22	"	Running characteristics of DC & AC traction motor.	01
21-11-22	"	Running characteristics of DC & AC traction motor.	01
22-11-22	"	control of motor Tapped field control	01
23-11-22	"	Rheostatic control	01
24-11-22	"	Series parallel control	01
25-11-22	"	Multi-unit control	01
26-11-22	"	Metadyne control	01

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Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/Signature of HOD/Director
7-11-22	TH-4 CEEST	8	Industrial Drives Group drive and individual drive		
10-11	"	8	Methods of choice of electric drives. Starting & running characteristics of DC & AC motor.		
11-11	"	9	Applications of DC motor, 3- ϕ IPM, 3- ϕ Synchronous motor, 1- ϕ Series motor.		
12-11	"	8	Universal meters, Repulsion meters.		
14-11	"	8	Solution to problems.		
15-11	"	9	Solution to problems.		
17-11	"	8	Electric Traction Systems of traction.		
18-11	"	6	System of track electrification.		
19-11	"	9	Running characteristics of DC & AC traction motor.		
21-11	"	9	Running characteristics of AC traction motor.		
22-11	"	8	Tapped field control of motor.		
23-11	"	8	Rheostatic control of motor.		
24-11	"	8	Series parallel control of motor.		
25-11	"	8	Multi-unit control of motor.		
26-11	"	7	Metadyne control of motor.		

