

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA
Academic Lesson Plan for Summer semester- 2025

Name of the teaching faculty: UMESH CHANDRA SETHI
Semester: 6th
No. of periods per week: 5
End semester exam: 80
Total Marks: 100

Department: Electrical Engineering
Subject: EI&E
Total Periods: 75
Class test: 20

Sl. No.	Week	Period	Unit/Chapter	Topic to be covered
1.	1 st	1 st	INDIAN ELECTRICITY RULES	Introduction to EIE. Definition of different electricity term.
2.		2 nd	INDIAN ELECTRICITY RULES	Introduction to EIE. Definition of different electricity term.
3.		3 rd	INDIAN ELECTRICITY RULES	Different rules of General safety precautions
4.		4 th	INDIAN ELECTRICITY RULES	Different rules of General conditions relating to supply and use of energy
5.		5 TH	INDIAN ELECTRICITY RULES	Different rules of General conditions relating to supply and use of energy
6	2 nd	1 st	INDIAN ELECTRICITY RULES	Different rules of General conditions relating to supply and use of energy
7.		2 nd	INDIAN ELECTRICITY RULES	Different rules of OH lines
8.		3 rd	TUTORIAL CUM DOUBT CLEAR CALSS	Objective questions related to Indian electricity rules
9.		4 th	ELECTRICAL INSTALLATIONS	Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy.
10.		5 TH	ELECTRICAL INSTALLATIONS	Methods of wiring
11.	3 rd	1 st	ELECTRICAL INSTALLATIONS	Methods of wiring
12.		2 nd	ELECTRICAL INSTALLATIONS	Types of cables used in internal wiring
13.		3 rd	ELECTRICAL INSTALLATIONS	ACCESSORIES
14.		4 th	ELECTRICAL INSTALLATIONS	ACCESSORIES
15.		5 TH		ACCESSORIES
16	4 th	1 st	ELECTRICAL INSTALLATIONS	Determination of size of earth wire and earth plate for domestic and industrial installations
17.		2 nd	ELECTRICAL INSTALLATIONS	LIGHTING SCHEME
18.		3 rd	ELECTRICAL INSTALLATIONS	Types of lighting schemes
19.		4 TH	ELECTRICAL INSTALLATIONS	General rules for wiring
20.		5 TH	ELECTRICAL INSTALLATIONS	General rules for wiring
21.	5 th	1 st	ELECTRICAL INSTALLATIONS	determination of number of points
22.		2 nd	ELECTRICAL INSTALLATIONS	Doubt clear class related to Electrical installations
23.		3 rd	TUTORIAL CUM DOUBT CLEAR CALSS	Objective questions related to electrical installation
24.		4 th	INTERNAL WIRING	Type of internal wiring
25.		5 th	INTERNAL WIRING	Do
26.	6 th	1 st	INTERNAL WIRING	Do
27.		2 nd	INTERNAL WIRING	Prepare one estimate of materials required for CTS wiring
28.		3 rd	INTERNAL WIRING	Do
29.		4 th	INTERNAL WIRING	Prepare one estimate of materials required for conduit wiring

30.		5 th	INTERNAL WIRING	Do
31.	7 th	1 st	INTERNAL WIRING	Do
32.		2 nd	INTERNAL WIRING	Prepare one estimate of materials required for concealed wiring
33.		3 rd	INTERNAL WIRING	Do
34.		4 th	INTERNAL WIRING	Prepare one estimate of materials required for erection of conduct wiring
35.		5 th	INTERNAL WIRING	Do
36.	8 th	1 st	INTERNAL WIRING	Do
37.		2 nd	TUTORIAL CUM DOUBT CLEAR CALSS	Objective questions related to Internal wiring
38.		3 rd	OVER HEAD INSTALLATION	Main components of overhead lines
39.		4 th	OVER HEAD INSTALLATION	Types of insulators
40.		5 th	OVER HEAD INSTALLATION	Do
41.	9 th	1 st	OVER HEAD INSTALLATION	Lighting arresters, danger plates,
42.		2 nd	OVER HEAD INSTALLATION	Prepare an estimate of materials required for LT distribution line
43.		3 rd	OVER HEAD INSTALLATION	Calculation of the size of conductor
44.		4 th	OVER HEAD INSTALLATION	Prepare an estimate of materials required for LT distribution line
45.		5 th	OVER HEAD INSTALLATION	Do
46.	10 th	1 st	OVER HEAD INSTALLATION	Do
47.		2 nd	OVER HEAD INSTALLATION	Do
48.		3 rd	OVER HEAD INSTALLATION	Prepare an estimate of materials required for HT distribution line
49.		4 th	OVER HEAD INSTALLATION	Do
50.		5 th	OVER HEAD INSTALLATION	Do
51.	11 th	1 st	OVER HEAD INSTALLATION	Do
52.		2 nd	TUTORIAL CUM DOUBT CLEAR CALSS	Objective questions related to overhead installations
53.		3 rd	OVER HEAD SERVICE LINES	Components of service lines
54.		4 th	OVER HEAD SERVICE LINES	Service line (cables and conductors)
55.		5 th	OVER HEAD SERVICE LINES	DO
56.	12 th	1 st	OVER HEAD SERVICE LINES	Ariel fuse, service support, energy box and meters
57.		2 nd	OVER HEAD SERVICE LINES	Prepare and estimate for providing single phase supply
58.		3 rd	OVER HEAD SERVICE LINES	Do
59.		4 th	OVER HEAD SERVICE LINES	Prepare and estimate for providing single phase supply load of 3KW
60.		5 th	OVER HEAD SERVICE LINES	Do
61.	13 th	1 st	OVER HEAD SERVICE LINES	Do
62.		2 nd	OVER HEAD SERVICE LINES	Prepare one estimate of materials required for service connection using insulated wire
63.		3 rd	OVER HEAD SERVICE LINES	Do
64.		4 th	OVER HEAD SERVICE LINES	Prepare one estimate of materials required for service connection using bare conductor
65.		5 th	OVER HEAD SERVICE LINES	Do
66.	14 th	1 st	OVER HEAD SERVICE LINES	Do
67.		2 nd	TUTORIAL CUM DOUBT CLEAR CALSS	Objective questions related to overhead service line
68.		3 rd	ESTIMATING FOR DISTRIBUTION SUBSTATIONS	Prepare materials estimate for Pole mounted substation
69.		4 th	ESTIMATING FOR DISTRIBUTION	Do

			SUBSTATIONS	
70.		5th	ESTIMATING FOR DISTRIBUTION SUBSTATIONS	Do
71.	15th	1st	ESTIMATING FOR DISTRIBUTION SUBSTATIONS	Prepare materials estimate for plinth mounted substation
72.		2nd	ESTIMATING FOR DISTRIBUTION SUBSTATIONS	Do
73.		3rd	TUTORIAL CUM DOUBT CLEAR CALSS	All topics
74.		4th	TUTORIAL CUM DOUBT CLEAR CALSS	All topics
75.		5th	TUTORIAL CUM DOUBT CLEAR CALSS	All topics

The lesson plan prepared by the concerned faculty

**UMESH CHANDRA SETHI
Guest Faculty
ELECTRICAL DEPARTMENT**