


LESSON PLAN FOR SESSION 2022-23(SUMMER)


SUBJECT- ELECTRICAL INSTALLTION & ESTIMATING SEM -6th BRANCH -ELECTRICAL ENGG.

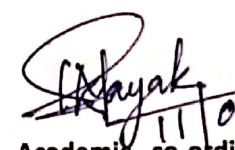
SI NO.	DATE	CHAPTER	TOPIC NAME	NO. OF PERIODS
1	14.2.23	INDIAN ELECTRICITY RULES CHAPTER-01	1.1 Definitions, Ampere, Apparatus, Accessible, Bare, cablew, circuit, circuit breaker, conductor voltage (low, medium, high, EH)	2
2	16.2.23		1.1 live, dead, cut-out, conduit, system, danger, Installation, earthing system, span, volt, switch gear, etc.	1
3	17.2.23		1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.	1
4	20.2.23		1.3 General conditions relating to supply and use of energy : rule 47, 48, 49, 50, 51, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 70.	1
5	21.2.23		1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91	2
6	23.2.23	ELECTRICAL INSTALLATIONS CHAPTER-02	2.1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring.	1
7	24.2.23		2.1 wire and cable, conductor materials used in cables, insulating materials	1
8	27.2.23		2.1 Types of cables used in internal wiring multi-stranded cables, voltage grinding of cables, general specifications of cables.	1
9	28.2.23		2.2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings.	2
10	2.3.23		2.2 lighting accessories and fittings, fuses, important definitions, Determination of size of fuse – wire, fuse units	1
11	3.3.23		2.2 Earthing conductor, earthing, IS specifications. regarding earthing of electrical installations, points to be earthed.	1
12	6.3.23		2.2 Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing	1
13	9.3.23		2.3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting,	1
14	10.3.23		2.3 Public lighting installations, street lighting, general rules for wiring, determination of number of points (light, fan, socket, outlets), determination of total load, determination of Number of sub-circuits.	1
15	13.3.23		3.1 Type of internal wiring, cleat wiring, CTS wiring, wooden casing capping, metal sheathed wiring, conduit wiring, their advantage and disadvantages comparison and applications	1
16	14.3.23		3.2 Prepare one estimate of materials required for CTS wiring for small domestic installation of one room and one verandah within 25 m2 with given	2
17	16.3.23		continue problem practice...	1
18	17.3.23		continue problem practice...	1

19	20.3.23	INTERNAL WIRING CHAPTER -03	3.3 Prepare one estimate of materials required for conduit wiring for small domestic installation of one room and one verandha within 25 m2 with given light, fan & plug points	1
20	21.3.23		continue problem practice...	2
21	23.3.23		continue problem practice...	1
22	24.3.23		3.4 Prepare one estimate of materials required for concealed wiring for domestic installation of two rooms and one latrine, bath, kitchen & verandah within 80m2 with given light, fan & plug points	1
23	27.3.23		continue problem practice...	1
24	28.3.23		3.5 Prepare one estimate of materials required for erection of conduct wiring to a small workshop installation about 30m2 and load within 10 KW	2
25	31.3.23		continue problem practice...	1
33	3.4.23	OVER HEAD INSTALLATION CHAPTER-04	4.1 Main components of overhead lines, line supports, factors Governing Height of pole, conductor materials, determination of size of conductor for overhead transmission line, cross arms, pole brackets and clamps, guys and stays, conductors configurations, spacing and clearances,	1
34	4.4.23		4.1 span lengths, overhead line insulators, types of insulators, lighting arresters, danger plates, anti-climbing devices, bird guards, beads of jumpers, jumpers, tee-offs, guarding of overhead lines.	2
35	6.4.23		4.2 Prepare an estimate of materials required for LT distribution line within load of 100 KW maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consideration using ACSR	1
36	10.4.23		continue problem practice...	1
37	11.4.23		4.3 Prepare an estimate of materials required for LT distribution line within load of 100 KW maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage	2
38	13.4.23		continue problem practice...	1
39	17.4.23		4.4 Prepare an estimate of materials required for HT distribution line (11 KV) within 2 km and load of 2000 KVA maximum and standard spans involving calculation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation of the size of conductor (from conductor chart), current carrying capacity and voltage regulation consideration using ACSR	1
40	18.4.23		continue problem practice...	2
41	20.4.23		problem practice...	1
42	21.4.23		problem practice...	1
43	24.4.23		5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support, energy box and meters etc.	1
44	25.4.23		5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light, fan, socket) to a single stored residential building	2
45	27.4.23		continue problem practice...	1
46	28.4.23		continue problem practice...	1

47	1.5.23	OVER HEAD SERVICE LINES CHAPTER-05	5.3 Prepare and estimate for providing single phase supply load of 3KW to each floor of a double stored building having separate energy meter	1
48	2.5.23		continue problem practice...	2
49	4.5.23		continue problem practice...	1
50	8.5.23		5.4 Prepare one estimate of materials required for service connection to a factory building with load within 15 KW using insulated wire.	1
51	9.5.23		continue problem practice...	2
52	11.5.23		5.5 Prepare one estimate of materials required for service connection to a factory building with load within 15 KW using bare conductor and insulated wire combined	1
53	12.5.23		continue problem practice...	1
54	15.5.23		problem practice...	1
60	16.5.23	ESTIMATING FOR DISTRIBUTION SUBSTATIONS CHAPTER-06	6.1 Prepare one materials estimate for following types of transformer substations 6.1.1 Pole mounted substation	2
61	18.5.23		continue problem practice...	1
62	22.5.23		6.1.2 Plinth Mounted substation.	1
63	23.5.23		Last year problem Discussion	2
			TOTAL CLASS	65


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