ACADEMIC LESSON PLAN OF SUMMER 2022

Discipline	Semester: -	Name of the Teaching Faculty: -Sandeep Mohapatra
	6th	
Electrical Engg.	(1st shift ₎	
Subject: TH-1 (ELECTRICAL INSTALLATION AND ESTIMATING)	No. of days/per week class allotted : 4p/week Tutorial:1p/w eek	Semester From: 10 th March 2022 to 10 th june 2022
Week	Class Day	Theory Topics
1 st	14/03/2022	1. INDIAN ELECTRICITY RULES 1.1 Definitions, Ampere, Apparatus, Accessible, Bare, cablew, circuit, circuit breaker, conductor voltage (low, medium, high, EH), live, dead, cut-out, conduit, system, danger, Installation, earthing system, span, volt, switch gear, etc.
	14/03/2022	1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.
	15/03/2022	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(cont)
	15/03/2022	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
	16/03/2022	Tutorial
2 nd	21/03/2022	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91.(cont)
	21/03/2022	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91
	22/03/2022	2. ELECTRICAL INSTALLATIONS 2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables(cont)
	22/03/2022	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables(cont) Tutorial
	23/03/2022	T UTOTIAI

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3 rd	28/03/2022	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables(cont)
	28/03/2022	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables.
	29/03/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing(cont)
	29/03/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing(cont)
	30/03/2022	Tutorial
4 th	04/04/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse — wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing(cont)
	04/04/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing.

05/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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. (cont)
05/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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. (cont)
06/04/2022	Tutorial
11/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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. (cont)
11/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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.
12/04/2022	3. INTERNAL WIRING 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.(cont)
12/04/2022	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.(cont)
13/04/2022	Tutorial
18/04/2022	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.
18/04/2022	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 light, fan & plug points.(cont).
19/04/2022	3 . 2 Prepare one estimate of materials required for CTS wiring
19/04/2022	for small domestic installation of one room and one verandah within 25 m2 with given light, fan & plug points.(cont).
	05/04/2022 06/04/2022 11/04/2022 12/04/2022 12/04/2022 13/04/2022 18/04/2022

		for small domestic installation of one room and one verandah
		within 25 m2 with given light, fan & plug points.
	20/04/2022	Tutorial
7 th	25/04/2022	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.(cont)
	25/04/2022	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.
	26/04/2022	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(cont)
	26/04/2022	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.
	27/04/2022	Tutorial
8 th	02/05/2022	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(cont)
	02/05/2022	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.
	03/05/2022	HOLIDAY
	03/05/2022	HOLIDAY
	04/05/2022	4. OVER HEAD INSTALLATION 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, 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.(cont)
9 th	09/05/2022	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, 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.(cont)
	09/05/2022	Tutorial
	10/05/2022	4.1 Main components of overhead lines, line supports, factors

	10/05/2022	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, 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.(cont) 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, 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.
	11/05/2022	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(cont)
10 th	16/05/2022	HOLIDAY
	16/05/2022	HOLIDAY
	17/05/2022	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(cont)
	17/05/2022	Tutorial
	18/05/2022	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.
11 th	23/05/2022	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 regulation consideration using ACSR.
	23/05/2022	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 regulation consideration using ACSR.

	24/05/2022	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(cont)
	24/05/2022	Tutorial
	25/05/2022	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(cont)
12 th	30/05/2022	HOLIDAY
	30/05/2022	HOLIDAY
	31/05/2022	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.
	31/05/2022	5. OVER HEAD SERVICE LINES 5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support.(cont)
	01/06/2022	5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support.(cont)
13 th	06/06/2022	Tutorial
	06/06/2022	5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support.
	07/06/2022	5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light,fan, socket) to a single stored residential building.(cont)
	07/06/2022	5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light,fan, socket) to a single stored residential building.(cont)
	08/06/2022	5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light,fan, socket) to a single stored residential building.
14 th	Extra Class	Tutorial

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	Extra Class	5.3 Prepare and estimate for providing single phase supply load of 3KW to eachfloor of a double stored building having separate energy meter.(cont)
	F	1 0
	Extra Class	5.3 Prepare and estimate for providing single phase supply load of 3KW to eachfloor of a double stored building having
		separate energy meter
	Extra Class	5.4 Prepare one estimate of materials required for service
		connection to a factorybuilding with load within 15 KW using insulated wire.(cont)
	Extra Class	5.4 Prepare one estimate of materials required for service connection to a factorybuilding with load within 15 KW using insulated wire
15 th	Extra Class	Tutorial
	Extra Class	5.5 Prepare one estimate of materials required for service
	Extra class	connection to a factory building with load within 15 KW using
		bare conductor and insulated wire combined.(cont)
	Extra Class	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
	Extra Class	6. ESTIMATING FOR DISTRIBUTION SUBSTATIONS
		6.1 Prepare one materials estimate for following types of
		transformer substations.(cont)
	Extra Class	6.1 Prepare one materials estimate for following types of
		transformer substations
16 th	Extra Class	Tutorial
	Extra Class	6.1.1 Pole mounted substation.(cont)
	Extra Class	6.1.1 Pole mounted substation
	Extra Class	6.1.2 Plinth Mounted substation.(cont)
	Extra Class	6.1.2 Plinth Mounted substation
17 th	Extra Class	Tutorial

Signature of Teaching Faculty

ACADEMIC LESSON PLAN OF SUMMER 2022

Discipline	Semester: -	Name of the Teaching Faculty: -Sandeep Mohapatra
2 15 C-P-111 C	6th	The state of the s
Electrical Engg.	(2nd shift)	
	(Ziid Siiit)	
Subject:	No. of	Semester From: 10 th March 2022 to 10 th june 2022
ELECTRICAL	days/per week	No. of weeks:15 weeks
INSTALLATION	class allotted:	
AND	4p/week Tutorial:1p/w	
ESTIMATING	eek	
Week	Class Day	Theory Topics
1 st	10/03/2022	1. INDIAN ELECTRICITY RULES
		1.1 Definitions, Ampere, Apparatus, Accessible, Bare, cablew,
		circuit, circuit breaker, conductor voltage (low, medium, high,
		EH), live, dead, cut-out, conduit, system, danger, Installation,
		earthing system, span, volt, switch gear, etc.
	11/03/2022	1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35,
		36, 40, 41, 43, 44, 45, 46.
	11/03/2022	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(cont)
	15/03/2022	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
	16/03/2022	Tutorial
2^{nd}	17/03/2022	1.4 OH lines: Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89,
		90, 91.(cont)
	22/03/2022	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89,
	22/22/222	90, 91
	23/03/2022	2. ELECTRICAL INSTALLATIONS
		2. 1 Electrical installations, domestics, industrial, Wiring
		System, Internal distribution of Electrical Energy. Methods of
		wiring, systems of wiring, wire and cable, conductor materials
		used in cables, insulating materials mechanical protection.
		Types of cables used in internal wiring, multi-stranded cables,
		voltage grinding of cables, general specifications of cables.
	24/02/2022	.(cont) 2. 1 Electrical installations, domestics, industrial, Wiring
	24/03/2022	System, Internal distribution of Electrical Energy. Methods of
		wiring, systems of wiring, wire and cable, conductor materials
		used in cables, insulating materials mechanical protection.
		Types of cables used in internal wiring, multi-stranded cables,
		voltage grinding of cables, general specifications of cables.
		.(cont)
	25/03/2022	Tutorial
	23, 33, 2022	

$3^{\rm rd}$	25 /02 /2555	0. 1 Electrical installation 1
314	25/03/2022	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables(cont)
	29/03/2022	2. 1 Electrical installations, domestics, industrial, Wiring System, Internal distribution of Electrical Energy. Methods of wiring, systems of wiring, wire and cable, conductor materials used in cables, insulating materials mechanical protection. Types of cables used in internal wiring, multi-stranded cables, voltage grinding of cables, general specifications of cables.
	30/03/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing(cont)
	31/03/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing(cont)
	05/04/2022	Tutorial
4 th	06/04/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing(cont)
	07/04/2022	2. 2 ACCESSORIES: Main switch and distribution boards, conduits, conduit accessories and fittings, lighting accessories and fittings, fuses, important definitions, determination of size of fuse – wire, fuse units. Earthing conductor, earthing, IS specifications regarding earthing of electrical installations, points to be earthed. Determination of size of earth wire and earth plate for domestic and industrial installations. Material required for GI pipe earthing.

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08/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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. (cont)
08/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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. (cont)
12/04/2022	Tutorial
13/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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. (cont)
19/04/2022	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types of lighting schemes, design of lighting schemes, factory lighting, 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.
20/04/2022	3. INTERNAL WIRING 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.(cont)
21/04/2022	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.(cont)
22/04/2022	Tutorial
22/04/2022	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.
26/04/2022	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 light, fan & plug points.(cont).
27/04/2022	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 light, fan & plug points.(cont).
	08/04/2022 12/04/2022 13/04/2022 20/04/2022 21/04/2022 22/04/2022 22/04/2022

		for small domestic installation of one room and one verandah within 25 m2 with given light, fan & plug points.
	29/04/2022	Tutorial Tutorial
$7^{ m th}$	29/04/2022	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.(cont)
	04/05/2022	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.
	05/05/2022	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(cont)
	06/05/2022	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.
	06/05/2022	Tutorial
8 th	10/05/2022	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(cont)
	11/05/2022	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.
	12/05/2022	4. OVER HEAD INSTALLATION 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, 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.(cont)
	13/05/2022	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, 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.(cont)
9 th	13/05/2022 10/05/2022	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, 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.(cont)
	17/05/2022	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, 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.
	18/05/2022	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(cont)
	19/05/2022	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(cont)
	20/05/2022	Tutorial
10 th	20/05/2022	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.
	24/05/2022	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 regulation consideration using ACSR.
	25/05/2022	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 regulation consideration using ACSR.

	26/05/2022	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(cont)
	27/05/2022	Tutorial
11 th	27/05/2022	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(cont)
	31/05/2022	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.
	01/06/2022	5. OVER HEAD SERVICE LINES 5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support.(cont)
	02/06/2022	5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support.(cont)
	03/06/2022	Tutorial
12 th	03/06/2022	5.1 Components of service lines, service line (cables and conductors), bearer wire, lacing rod. Ariel fuse, service support.
	07/06/2022	5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light,fan, socket) to a single stored residential building.(cont)
	08/06/2022	5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light,fan, socket) to a single stored residential building.(cont)
	09/06/2022	5.2 Prepare and estimate for providing single phase supply of load of 5 KW (light,fan, socket) to a single stored residential building.
	10/06/2022	Tutorial
13 th	10/06/2022	5.3 Prepare and estimate for providing single phase supply load of 3KW to eachfloor of a double stored building having separate energy meter.(cont)

	E L. Class	5.2 Duamana and actimate for marriding single above the
	Extra Class	5.3 Prepare and estimate for providing single phase supply
		load of 3KW to eachfloor of a double stored building having
		separate energy meter
	Extra Class	5.4 Prepare one estimate of materials required for service
		connection to a factorybuilding with load within 15 KW using
		insulated wire.(cont)
	Extra Class	5.4 Prepare one estimate of materials required for service
		connection to a factorybuilding with load within 15 KW using
		insulated wire
	Extra Class	Tutorial
14 th	Extra Class	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.(cont)
	Extra Class	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
	Extra Class	6. ESTIMATING FOR DISTRIBUTION SUBSTATIONS
		6.1 Prepare one materials estimate for following types of
		transformer substations.(cont)
	Extra Class	6.1 Prepare one materials estimate for following types of
		transformer substations
	Extra Class	Tutorial
15 th	Extra Class	6.1.1 Pole mounted substation.(cont)
	Extra Class	6.1.1 Pole mounted substation
	Extra Class	6.1.2 Plinth Mounted substation.(cont)
	Extra Class	6.1.2 Plinth Mounted substation
	Extra Class	Tutorial

Signature of Teaching

Faculty