## **ACADEMIC LESSON PLAN OF SUMMER 2023**

	<u> </u>	LISSON FLAN OF SOIVIIVIEN 2025
Discipline	Semester: -	Name of the Teaching Faculty: -Rojalin Choudhury
Electrical Engg.	(Sec A)	
Dicerren Engg.		
	No. of	Semester From: 14 <sup>th</sup> February 2023 to 23 <sup>rd</sup> May 2023
Subject:	days/per week	Semiostor from: 11 fortunity 2020 to 20 filling 2020
ELECTRICAL	class allotted:	
INSTALLATION	4p/week	
AND	Tutorial:1p/w	
ESTIMATING(TH-1)	eek	
Week	Class Day	Theory Topics
1 st	1 <sup>st</sup>	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.
	2 <sup>nd</sup>	1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	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
	5 <sup>th</sup>	Tutorial
2 <sup>nd</sup>	1 <sup>st</sup>	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91.(cont)
	2 <sup>nd</sup>	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91
	3 <sup>rd</sup>	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)  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
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		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.
	3 <sup>rd</sup>	2. 2 ACCESSORIES: Main switch and distribution boards, conduits,
	J	conduit accessories and fittings, lighting accessories and fittings,
		fuses, important definitions, determination of size of fuse – wire,
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		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
	16	industrial installations. Material required for GI pipe earthing(cont)
	4 <sup>th</sup>	2. 2 ACCESSORIES: Main switch and distribution boards, conduits,
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		industrial installations. Material required for GI pipe earthing.
	3 <sup>rd</sup>	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)
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for small domestic installation of one room and one verandha within 25 m <sub>2</sub> with given light, fan & plug points.(cont)  2 <sup>nd</sup> 3 . 3 Prepare one estimate of materials required for conduit wiring for small domestic installation of one room and one verandha within 25 m <sub>2</sub> with given light, fan & plug points.  3 <sup>rd</sup> 3 . 4 Prepare one estimate of materials required for concealed wiring for domestic installation of two rooms and one latrine, bath, kitchen & verandah within 80m <sub>2</sub> with given light, fan & plug points(cont)  4 <sup>th</sup> 3 . 4 Prepare one estimate of materials required for concealed wiring for domestic installation of two rooms and one latrine, bath, kitchen & verandah within 80m <sub>2</sub> with given light, fan & plug points.  5 <sup>th</sup> Tutorial			Tutorial
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& verandah within 80m2 with given light, fan & plug points.  5 <sup>th</sup> Tutorial		4 <sup>th</sup>	3 . 4 Prepare one estimate of materials required for concealed wiring
5 <sup>th</sup> Tutorial			for domestic installation of two rooms and one latrine, bath, kitchen
			& verandah within 80m2 with given light, fan & plug points.
oth et			
3 . 5 Prepare one estimate of materials required for erection of	8 <sup>th</sup>	1 <sup>st</sup>	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)			
2 <sup>nd</sup> 3 . 5 Prepare one estimate of materials required for erection of		2 <sup>nd</sup>	
conduct wiring to a small workshop installation about 30m2 and load			
within 10 KW.			
3 <sup>rd</sup> 4. OVER HEAD INSTALLATION		3 <sup>rd</sup>	4. OVER HEAD INSTALLATION

	1	
	4 <sup>th</sup>	<ul> <li>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)</li> <li>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</li> </ul>
		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)
	5 <sup>th</sup>	Tutorial
9 <sup>th</sup>	1 <sup>st</sup>	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)
	2 <sup>nd</sup>	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.
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	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)
	5 <sup>th</sup>	Tutorial
10 <sup>th</sup>	1 <sup>st</sup>	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.
	2 <sup>nd</sup>	4.3. Prepare an estimate of materials required for LT distribution

	1	
		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.
	3 <sup>rd</sup>	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.
	4 <sup>th</sup>	4.4 Prepare an estimate of materials required for HT distribution line
	4	(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 carryingcapacity and voltage regulation of the size of
		conductor (from conductor chart), current carrying capacity and
	th	voltage regulation consideration using ACSR(cont)
a a th	5 <sup>th</sup>	Tutorial
11 <sup>th</sup>	1 <sup>st</sup>	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 carryingcapacity and voltage regulation of the size of
		conductor (from conductor chart), current carrying capacity and
		voltage regulation consideration using ACSR(cont)
	2 <sup>nd</sup>	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 carryingcapacity and voltage regulation of the size of
		conductor (from conductor chart), current carrying capacity and
		voltage regulation consideration using ACSR.
	3 <sup>rd</sup>	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)
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	4 <sup>th</sup>	5.1 Commonants of sources lines sources line (solder and
	4	5.1 Components of service lines, service line (cables and
		conductors), bearer wire, lacing rod. Ariel fuse, service
	_th	support.(cont)
1 oth	5 <sup>th</sup>	Tutorial
12 <sup>th</sup>	1 <sup>st</sup>	5.1 Components of service lines, service line (cables and
		conductors), bearer wire, lacing rod. Ariel fuse, service support.
	2 <sup>nd</sup>	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)
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	5.2 Prepare and estimate for providing single phase supply of load of
		5 KW (light, fan, socket) to a single stored residential building.
	5 <sup>th</sup>	Tutorial
13 <sup>th</sup>	1 <sup>st</sup>	5.3 Prepare and estimate for providing single phase supply load of
	1	3KW to eachfloor of a double stored building having separate
	1	512 11 to each foot of a double stored building having separate

		energy meter.(cont)
	2 <sup>nd</sup>	
	2	5.3 Prepare and estimate for providing single phase supply load of
		3KW to eachfloor of a double stored building having separate
		energy meter
	3 <sup>rd</sup>	5.4 Prepare one estimate of materials required for service connection
		to a factorybuilding with load within 15 KW using insulated
		wire.(cont)
	4 <sup>th</sup>	5.4 Prepare one estimate of materials required for service connection
		to a factorybuilding with load within 15 KW using insulated wire
	5 <sup>th</sup>	Tutorial
14 <sup>th</sup>	1 <sup>st</sup>	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)
	2 <sup>nd</sup>	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
	3 <sup>rd</sup>	6. ESTIMATING FOR DISTRIBUTION SUBSTATIONS
		6.1 Prepare one materials estimate for following types of
		transformer substations.(cont)
	4 <sup>th</sup>	6.1 Prepare one materials estimate for following types of
		transformer substations
	5 <sup>th</sup>	Tutorial
15 <sup>th</sup>	1 <sup>st</sup>	6.1.1 Pole mounted substation.(cont)
(EXTRA CLASSES)	2 <sup>nd</sup>	6.1.1 Pole mounted substation
	3 <sup>rd</sup>	6.1.2 Plinth Mounted substation.(cont)
	4 <sup>th</sup>	6.1.2 Plinth Mounted substation
	5 <sup>th</sup>	Tutorial

Signature of Teaching Faculty

## **ACADEMIC LESSON PLAN OF SUMMER 2023**

	, to, to living L	LOSON FLAN OF SOMMER 2025
Discipline	Semester: -	Name of the Teaching Faculty: -Rojalin Choudhury
Floatrical Frac	(Sec B)	
Electrical Engg.		
	No. of	Semester From: 14 <sup>th</sup> February 2023 to 23 <sup>rd</sup> May 2023
Subject:	days/per week	·
ELECTRICAL	class allotted:	
INSTALLATION	4p/week	
AND	Tutorial:1p/w	
ESTIMATING(TH-1)	eek	
Week 1 <sup>st</sup>	Class Day	Theory Topics
1 31	1"	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
	_ nd	system, span, volt, switch gear, etc.
	2 <sup>nd</sup>	1.2 General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36,
	ord	40, 41, 43, 44, 45, 46.
	3 <sup>rd</sup>	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,
	- th	68, 70(cont)
	4 <sup>th</sup>	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,
	_th	68, 70
2 <sup>nd</sup>	5 <sup>th</sup>	Tutorial
2	1"	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90,
	2 <sup>nd</sup>	91.(cont)
	2	1.4 OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	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)
	5 <sup>th</sup>	Tutorial
3 <sup>rd</sup>	1 <sup>st</sup>	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)

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	2 <sup>nd</sup> 3 <sup>rd</sup>	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.  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)
		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)
	5 <sup>th</sup>	Tutorial
4 <sup>th</sup>	1 <sup>st</sup>	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)
	2 <sup>nd</sup>	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.
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	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)  Tutorial
5 <sup>th</sup>	1 <sup>st</sup>	2. 3 LIGHTING SCHEME: Aspects of good lighting services. Types
J		of lighting schemes, design of lighting schemes, factory lighting,

	1	
		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.
	nd	(cont)
	2 <sup>nd</sup>	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.
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	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)
	5 <sup>th</sup>	Tutorial
6 <sup>th</sup>	1 <sup>st</sup>	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.
	2 <sup>nd</sup>	3 . 2 Prepare one estimate of materials required for CTS wiring for
		small domestic installation of one room and one verandah within 25
		m <sub>2</sub> with given light, fan & plug points.(cont).
	3 <sup>rd</sup>	3 . 2 Prepare one estimate of materials required for CTS wiring for
		small domestic installation of one room and one verandah within 25
		m <sub>2</sub> with given light, fan & plug points.(cont).
	4 <sup>th</sup>	3 . 2 Prepare one estimate of materials required for CTS wiring for
		small domestic installation of one room and one verandah within 25
		m <sub>2</sub> with given light, fan & plug points.
	5 <sup>th</sup>	Tutorial
7 <sup>th</sup>	1 <sup>st</sup>	3 . 3 Prepare one estimate of materials required for conduit wiring
	_	for small domestic installation of one room and one verandha within
		25 m <sub>2</sub> with given light, fan & plug points.(cont)
	2 <sup>nd</sup>	3 . 3 Prepare one estimate of materials required for conduit wiring
	_	for small domestic installation of one room and one verandha within
		25 m <sub>2</sub> with given light, fan & plug points.
	3 <sup>rd</sup>	3 . 4 Prepare one estimate of materials required for concealed wiring
		for domestic installation of two rooms and one latrine, bath, kitchen
		& verandah within 80m <sub>2</sub> with given light, fan & plug points(cont)
	4 <sup>th</sup>	3 . 4 Prepare one estimate of materials required for concealed wiring
	4	for domestic installation of two rooms and one latrine, bath, kitchen
		& verandah within 80m <sub>2</sub> with given light, fan & plug points.
	5 <sup>th</sup>	Tutorial
	1 <sup>st</sup>	
8 <sup>th</sup>	1	3.5 Prepare one estimate of materials required for erection of
		conduct wiring to a small workshop installation about 30m <sub>2</sub> and load
	2 <sup>nd</sup>	within 10 KW(cont)
	2	3 . 5 Prepare one estimate of materials required for erection of
		conduct wiring to a small workshop installation about 30m <sub>2</sub> and load
	ord	within 10 KW.
I	3 <sup>rd</sup>	4. OVER HEAD INSTALLATION

	1	
	4 <sup>th</sup>	<ul> <li>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)</li> <li>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</li> </ul>
		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
	_th	overhead lines.(cont)
9 <sup>th</sup>	5 <sup>th</sup>	Tutorial  4.1 Main common and of considered lines, line common features
9"		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)
	2 <sup>nd</sup>	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.
	3 <sup>rd</sup>	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)
	4 <sup>th</sup>	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)
a.	5 <sup>th</sup>	Tutorial
10 <sup>th</sup>	1 <sup>st</sup>	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.
	2 <sup>nd</sup>	4.3. Prepare an estimate of materials required for LT distribution

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line within load of 100 KW maximum and	
calculation of the size of conductor (from c	onductor chart), current
carrying capacity and voltage	
regulation consideration using ACSR.	
3 <sup>rd</sup> 4.3. Prepare an estimate of materials requir	ed for LT distribution
line within load of 100 KW maximum and	standard spans involving
calculation of the size of conductor (from c	onductor chart), current
carrying capacity and voltage	,,
regulation consideration using ACSR.	
4 <sup>th</sup> 4.4 Prepare an estimate of materials require	ed for HT distribution line
(11 KV)within 2 km and load of 2000 KVA	
spans involving calculation of the size of co	
chart), current carryingcapacity and voltage	
conductor (from conductor chart), current conductor chart), current conductor chart), current conductor (from conductor chart), current conductor chart).	
voltage regulation consideration using ACS  5 <sup>th</sup> Tutorial	SR(COIII)
	.4.CITT 1' ( '1 ( ' 1')
1 · · · - · · · · · · · · · · · · · · ·	
(11 KV)within 2 km and load of 2000 KVA	
spans involving calculation of the size of co	•
chart), current carryingcapacity and voltage	
conductor (from conductor chart),current conductor	• • •
voltage regulation consideration using ACS	SR(cont)
2 <sup>nd</sup> 4.4 Prepare an estimate of materials require	ed for HT distribution line
(11 KV)within 2 km and load of 2000 KVA	A maximum and standard
spans involving calculation of the size of co	nductor (from conductor
chart), current carryingcapacity and voltage	e regulation of the size of
conductor (from conductor chart), current ca	arrying capacity and
voltage regulation consideration using ACS	SR.
3 <sup>rd</sup> 5. OVER HEAD SERVICE LINES	
5.1 Components of service lines, service lines	ne (cables and
conductors), bearer wire, lacing rod. Ariel f	
support.(cont)	,
4 <sup>th</sup> 5.1 Components of service lines, service lines	ne (cables and
conductors), bearer wire, lacing rod. Ariel f	
support.(cont)	
5 <sup>th</sup> Tutorial	
12 <sup>th</sup> 1 <sup>st</sup> 5.1 Components of service lines, service lines.	ne (cables and
conductors), bearer wire, lacing rod. Ariel fi	
2 <sup>nd</sup> 5.2 Prepare and estimate for providing sing	
5 KW (light, fan, socket) to a single stored i	ะรานะแนสเ
building.(cont)	
3 <sup>rd</sup> 5.2 Prepare and estimate for providing sing	1
5 1 1 1 pure une estimate for providing sing	
5 KW (light, fan, socket) to a single stored i	residential
building.(cont)	
4 <sup>th</sup> 5.2 Prepare and estimate for providing sing	
5 KW (light,fan, socket) to a single stored i	esidential building.
5 <sup>th</sup> Tutorial	
13 <sup>th</sup> 1 <sup>st</sup> 5.3 Prepare and estimate for providing sing	le phase supply load of

		3KW to eachfloor of a double stored building having separate
		energy meter.(cont)
	2 <sup>nd</sup>	5.3 Prepare and estimate for providing single phase supply load of
		3KW to eachfloor of a double stored building having separate
		energy meter
	3 <sup>rd</sup>	5.4 Prepare one estimate of materials required for service connection
		to a factorybuilding with load within 15 KW using insulated
		wire.(cont)
	4 <sup>th</sup>	5.4 Prepare one estimate of materials required for service connection
		to a factorybuilding with load within 15 KW using insulated wire
	5 <sup>th</sup>	Tutorial
14 <sup>th</sup>	1 <sup>st</sup>	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)
	2 <sup>nd</sup>	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
	3 <sup>rd</sup>	6. ESTIMATING FOR DISTRIBUTION SUBSTATIONS
		6.1 Prepare one materials estimate for following types of
		transformer substations.(cont)
	4 <sup>th</sup>	6.1 Prepare one materials estimate for following types of
		transformer substations
	5 <sup>th</sup>	Tutorial
15 <sup>th</sup>	1 <sup>st</sup>	6.1.1 Pole mounted substation.(cont)
(EXTRA CLASSES)		
	2 <sup>nd</sup>	6.1.1 Pole mounted substation
	rd	
	3 <sup>rd</sup>	6.1.2 Plinth Mounted substation.(cont)
	4 <sup>th</sup>	6.1.2 Plinth Mounted substation
	th.	
	5 <sup>th</sup>	Tutorial

Signature of Teaching Faculty