

Dicipline: EE	Semester: 6th	Name of the Teaching Faculty: Ajit Kumar Panda	
Subject: Electrical Distribution and Estimating	No of Days/Week Class Allotted: 4	Semester From date: 13.09.23 To date: 23.05.23	No. of Weeks: 16

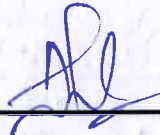

WEEK	Class Day	Theory Topics
	1st	Definitions, Ampere, Apparatus, Accessible Base, cable, circuit, circuit, breaker
	2nd	conductor voltage (low, medium, high, etc)
	3rd	live dead, cut-out, conduct, system. danger, installation, earthing, system
	4th	General safety precautions, rule 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41
	5th	
	1st	General conditions relating to supply and use of energy : rule 47, 48, 49, 50, 51, 54, 55, 56, 57, 58, 59, 60, 61
	2nd	OH lines : Rule 74, 75, 76, 77, 78, 79, 80, 86, 87, 88, 89, 90, 91
	3rd	Electrical installations, domestic, industrial, wiring system, internal
	4th	methods of wiring, system of wiring wire and cable, conductor materials
	5th	
	1st	insulating materials mechanical protection
	2nd	Types of cables used in internal wiring, multi-stranded cables, voltage
	3rd	ACCESSORIES: main switches and distribution boards, conduits, conduit
	4th	lighting accessories and fittings, fuses, important definitions
	5th	

WEEK	Class Day	Theory Topics
	1st	Earthing conductor, earthing is specifications regarding earthing or electrical installations,
	2nd	Determination of size of earth wire and earth plate for domestic and industrial installations.
	3rd	LIGHTING SCHEME; ASPECTS of good lighting service
	4th	TYPES OF lighting schemes, design of lighting schemes, factory lighting
	5th	
	1st	public lighting installations, street lighting, general rules for wiring
	2nd	Determination of number of points (lign, fan, socket, outlets)
	3rd	TYPE OF internal wiring, circuit wiring
	4th	wooden casing capping, metal sheathed wiring, conduit wiring
	5th	
	1st	their advantages and disadvantages comparison and applications.
	2nd	prepare one estimate of materials required for cts wiring for small
	3rd	prepare one estimate of materials required for cts wiring for small domestic installation of one
	4th	prepare one estimate of materials required for conduit wiring for small domestic installation
	5th	

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WEEK	Class Day	Theory Topics		
	1st	prepare one estimate of materials required for small domestic installation of one verandha within 25m ²		
	2nd	prepare one estimate of materials of materials required for concealed wiring for domestic installation		
	3rd	prepare one estimate of materials required for concealed wiring for domestic installation of one latrine		
	4th	prepare one estimate of materials required for concealed wiring for domestic installation of bath, kitchen		
	5th			
	1st	prepare one estimate of materials required for concealed wiring for domestic installation of verandha		
	2nd	prepare one estimate of materials required for erection of conduct wiring to a small workshop		
	3rd	main components of overhead lines, line supports, factors governing		
	4th	determinations of size of conductor for overhead transmission line, cross arms, poles, brackets and		
	5th			
	1st	conductors configurations, spacing and clearance, span lengths overhead		
	2nd	types of insulators, lightning arrester, danger plates, anti-climbing devices, bird guards, beads of jumper		
	3rd	prepare an estimate of materials required for LT distribution line		
	4th	calculation of the sizes of conductors (from conduction chart), current carrying capacity considerations		
	5th			

WEEK	Class Day	Theory Topics
	1st	calculation of the size of conductor (from conductor chart) voltage regulation consideration using ACSR
	2nd	prepare an estimate of materials required for LT distribution line within load of 100KW maximum
	3rd	calculation of the size of conductor (from conductor chart) and voltage regulation considering using ACSR
	4th	calculation of the size of conductor (from conductor chart) current carrying capacity consideration
	5th	
	1st	prepare an estimate of materials required for HT distribution line (11 KV)
	2nd	current carrying capacity and voltage regulation of the size of conductor (from conductor chart)
	3rd	current carrying capacity and voltage regulation consider action using ACSR.
	4th	components of service lines, service line (cables and conductors)
	5th	
	1st	components of service lines, banner wire
	2nd	components of service lines, lagging rod
	3rd	Aerial fuse, service support, energy box and meter & etc.
	4th	procedure for providing single phase supply of load of 5 KW (light, fan socket)
	5th	

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WEEK	Class Day	Theory Topics		
	1st	Estimate for providing single phase SUPPLY load OF 5 KW (light, fan socket)		
	2nd	prepare for providing single phase supply load of 5KW to each floor of a double stored building having		
	3rd	Estimate for providing single phase SUPPLY load of 3KW to each floor of a double stored building		
	4th	prepare OF materials required for service connection to a factory building		
	5th			
	1st	Estimate OF materials required for service connection to a factory building		
	2nd	prepare OF materials required for service connection to a factory		
	3rd	Estimate of materials required for service connection to a factory building with load within 15 KW.		
	4th	prepare OF materials required for service connection to a factory		
	5th			
	1st	Estimate of materials required for service connection to a factory building		
	2nd	CLASS TEST		
	3rd	DISCUSSION OF ASSIGNMENT QUESTION		
	4th	PREVIOUS SEMESTER QUESTION DISCUSSION		
	5th			

WEEK	Class Day	Theory Topics
	1st	PREVIOUS SEMESTER QUESTION DISCUSSION
	2nd	OMR TEST
	3rd	CLASS TEST QUESTION DISCUSSION & DISTRIBUTION OF EVALUATED ANSWER SHEET TO THE STUDENT.
	4th	
	5th	 
	1st	
	2nd	
	3rd	
	4th	
	5th	
	1st	
	2nd	
	3rd	
	4th	
	5th	