

Badriprasad Institute of Technology, Sambalpur

Lesson plan for Theory -1,Electrical Installation &Estimating

Semester & Branch : 6th Sem, Electrical Engineering

Total Periods-75

Name of the faculty : Prasanta Samal

No of periods /week-5

WEEK	CLASS DAY	THEORY
1ST	1ST	Indian Electricity Rules(definition of terms)
	2ND	general safety precaution (rule-29 to 46)
	3RD	general condition for supply & use of energy
	4TH	rule:47 to 56
	5TH	rule:57 to 70
2ND	1ST	overhead lines rule:74 to 91
	2ND	Electrical Installation(wiring system)
	3RD	Internal Distribution of Electrical Energy
	4TH	methods of wiring,system of wiring
	5TH	wire and cable,conductor material in cable
3RD	1ST	Insulating material
	2ND	types of cables used in internal wiring
	3RD	accessories,main switch and distribution board
	4TH	conduit accessories and fitting
	5TH	lighting accessories and fitting
4TH	1ST	fuse,fuse units
	2ND	earthing of electrical installation
	3RD	lighting scheme(types)
	4TH	design of lighting schemes
	5TH	subcircuit(types)
5TH	1ST	types of internal wiring(cts and cleat wiring)
	2ND	wooden casing and capping,conduit wiring
	3RD	estimate of batten wiring (25square meter area)
	4TH	estimate of conduit wiring(25 square meter area)
	5TH	estimate of concealed wiring(80 square meter area)
6TH	1ST	estimate of workshop wiring(within 10KW)
	2ND	Overhead installation concept
	3RD	determination of size of conductor,cross arm etc
	4TH	concept of lightening arrestor,danger plate,bird guards
	5TH	estimate of LT distribution line(within load of 100KW)
7TH	1ST	estimate of LT distribution line by using ACSR CONDUCTORS
	2ND	1st class test of estimating
	3RD	estimate of HT distribution line(within 2000KVA)
	4TH	component of service line(cable and conductor)
	5TH	bearer wire,ariel fuse,service bracket etc
8TH	1ST	2nd class test of internal wiring
	2ND	service connection of a 1 stored residential building
	3RD	service connection of a 1 stored residential building
	4TH	service connection of a 1 stored residential building
	5TH	service connection of a 1 stored residential building
9TH	1ST	service connection of a 2 stored residential building
	2ND	service connection of a 2 stored residential building

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	3RD	service connection of a 2 stored residential building
	4TH	3rd class test of service connection
	5TH	service connection to a workshop within 15KW load
10TH	1ST	service connection to a workshop within 15KW load
	2ND	service connection to a workshop within 15KW load
	3RD	doubt solving session on internal wiring
	4TH	doubt solving session on service connections
	5TH	estimating practice of LT distribution lines
11TH	1ST	estimating practice of HT distribution lines
	2ND	doubt solving session on types of wiring
	3RD	estimate of pole mounted substation(session-1)
	4TH	estimate of pole mounted substation(session-2)
	5TH	estimate of plinth mounted substation(session-1)
12TH	1ST	estimate of plinth mounted substation(session-2)
	2ND	objective type test on estimating
	3RD	discussion on indian electricity rules
	4TH	practice test of 80 marks(theory) in semester pattern.
	5TH	practice test of 80 marks(theory) in semester pattern.
13TH	1ST	Revision of types of wiring
	2ND	methods of electric wiring
	3RD	estimate of one room and verandah having batton system of wiring
	4TH	estimate of one room and verandah having batton system of wiring
	5TH	estimate of a two bedrooms (80metre square)conduit wiring
14TH	1ST	estimate of a two bedrooms (80metre square)conduit wiring
	2ND	estimate of a two bedrooms (80metre square)conduit wiring
	3RD	revision of substations(pole mounted)
	4TH	doubt solving classes of indian electricity rules.
	5TH	estimate of service connection of a single stored house
15TH	1ST	estimate of service connection of a single stored house
	2ND	doubt solving session on LT distribution line.
	3RD	class test regarding internal wiring
	4TH	revision of workshop wiring
	5TH	class test of workshop wiring

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