

## Lesson Plan

Subject Electrical Installation & Estimation (Code) Th.1 Name of faculty KONARK PATRA

Semester 6<sup>th</sup> Class allotted 5 Period/Week Branch : ELECTRICAL ENGINEERING

Discipline	Semester	From date: <u>14/02/2023</u> To date: <u>29/05/2023</u>	Teaching Aid
Subject:	No. of days/ per week	Theory/ Practical - Topics/Lesson	
Week	Date/Period		
1	14/2/23	Indian electricity rules.	White board
	to 17/2/23	Definitions, Ampere, Apparatus Accessible, Bare, Cable, Conduit, Circuit breaker, conductor Voltage (Low, medium, high, fit) Live, dead, cut-out, conductor, System, danger, Installation, earthy system, span, volt, Satchgun etc. General safety precautions. Rule - 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.	Marker
2	20/2/23	Live, dead, cut-out, conductor, System, danger, Installation, earthy system, span, volt, Satchgun etc. General safety precautions.	White board
	to 25/2/23	Rule - 29, 30, 31, 32, 33, 34, 35, 36, 40, 41, 43, 44, 45, 46.	Marker
3	27/2/23	General cond <sup>n</sup> relating supply of energy rule : (49-51) (54-68), 70.	White board
	to 4/3/23	OH lines : Rule (74-80) (86-91)	Marker
4	6/3/23	Electrical Installation.	White board
	to 11/3/23	Domestic and industrial wiring system, Internal distribution of electrical energy. Wiring in multi stranded cables.	Marker
5	13/3/23	Insulating material mechanical protector, Voltage grading of cables. General specifications of cables.	White board
	to 18/3/23		Marker
6	20/3/23	Accessories: Movable switch and distribution boards	White board
	to 25/03/23	Conduits accessories and fittings Lighting accessories, fuse, fuses, Earthing conductors, IS protection	Marker
7	27/3/23	regarding earthing electrical installation Lighting scheme.	White board
	to 31/3/23	Aspects of good lighting services Types of lighting scheme.	Marker

  
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Week	Date/Period	Theory/Practical - Topics/Lesson	Teaching Aid
8	3/4/23 to 8/4/23	Determination of no of points. (light, fan, socket, outlets) No. of sub-circuits.	White board & Marker
	10/4/23 to 15/4/23	Internal wiring: Type of internal wiring, clear C/S, wooden cary capping, Verandah with 25 m <sup>2</sup> with green light, fan, plug point.	White board & Marker
10	17/4/23 to 22/4/23	Two rooms and one latrine, bath kitchen and verandah with 30 m <sup>2</sup> with green light, fan, and plug point Workshop installation about 30 m <sup>2</sup> and load about 10 kW.	White board & Marker
	24/4/23 to 29/4/23	Overhead lines installation, Main components of overhead line. Support, clamps, guy and stays insulation, lighting arrester, tie-offs Bird guards, beads of jumper.	White board & Marker
12	1/5/23 to 6/5/23	Prepare an estimate of materials required for LT distribution line within load of 100 kW max <sup>m</sup> and standard span using ACSR.	White board & Marker
	8/5/23 to 13/5/23	Prepare <sup>m</sup> estimate of materials required for HT distribution line (11kV) within 2 km and load of 2500 kW max <sup>m</sup> using ACSR.	White board & Marker
14	15/5/23 to 20/5/23	Overhead service line: Components of service line Estimate 1 phase supply to a bus to a village for bridge. 3 kW, 5 kW, 15 kW load estimate.	White board & Marker
	22/5/23 to 23/5/23	Prepare an estimate on, pole mounted substation Plinth mounted substation,	White board & Marker

  
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