

# LESSON PLAN

SUB:- ELECTRICAL WORK SHOP

BRANCH:- ELECTRICAL ENGG.

SEMESTER: 6<sup>TH</sup>

NAME OF FACULTY: - ASHWINI KUMAR SAHU  
& UMESH KUMAR DALAI



**GOVERNMENT POLYTECHNIC,  
BHADRAK  
SESSION:2025-26**

*Jak*  
HOD Electrical  
19-12-25

HOD (ELECT.)  
G.P.BHADRAK

*Jak*  
Academic Co-ordinator  
19.12.25

Academic Co-ordinator

*Jak*  
Principal  
Govt. Polytechnic Bhadrak  
19.12.25

Principal  
Govt. Polytechnic  
Bhadrak

DISCIPLINE ELECTRICAL ENGG.	SEMESTER 6 <sup>TH</sup>	NAME OF THE TEACHING FACULTY ASHWINI KUMAR SAHU & UMESH KUMAR DALAI
SUBJECT ELECTRICAL WORK SHOP	NO. OF DAYS/WEEK CLASS ALLOTTED – 45 (3P/week)	SEMESTER FROM DATE: 22.12.2025 – 18.04.2026
WEEK	CLASS DAY	PRACTICAL TOPICS
1st	01	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T- joint and Married joint
	02	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T- joint and Married joint
2nd	01	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T- joint and Married joint
	02	Identification of single core (SC), twin core (TC), three cores (3c), four cores (4c); copper and aluminum PVC, VIR & Weather proof (WP) wire and prepare Britannia T- joint and Married joint
3rd	01	Cutting copper and aluminum cable and crimping lug to them from 2.5mm <sup>2</sup> to 6 mm <sup>2</sup> cross section.
	02	Cutting copper and aluminum cable and crimping lug to them from 2.5mm <sup>2</sup> to 6 mm <sup>2</sup> cross section.
4th	01	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each case-prepare lux table .
	02	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps – measure inductance, Lux/ lumens (intensity of illumination) in each

		case-prepare lux table .
5TH	01	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps — measure inductance, Lux/lumens (intensity of illumination) in each case-prepare lux table .
	02	Connection and testing of fluorescent tube light, high pressure M.V. lamp, sodium vapor lamp, M.H lamp, CFL and latest model lamps — measure inductance, Lux/lumens (intensity of illumination) in each case-prepare lux table .
6TH	01	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).
	02	Study battery charger and make charging of lead acid battery (record charging voltage, current and specific gravity).
7TH	01	Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.
	02	Erection of residential building wiring by CTS and conduit wiring system using main two points and test installation by test lamp method and a meggar.
8TH	01	Fault finding & repairing of Ceiling Fan — prepare an inventory list of parts
	02	Fault finding & repairing of Ceiling Fan — prepare an inventory list of parts
9TH	01	Find out fault of D.C. generator, repair and test it to run.
	02	Find out fault of D.C. generator, repair and test it to run.
10TH	01	Find out fault of D.C. motor starters and A.C motor starter — prepare an inventory list of parts used in different starters.
	02	Find out fault of D.C. motor starters and A.C motor starter — prepare an inventory list of parts used in different starters.

11 <sup>TH</sup>	01	Dismantle, over haul and assemble a single phase induction motor. Test and run it. —prepare an inventory list.
	02	Dismantle, over haul and assemble a single phase induction motor. Test and run it. —prepare an inventory list.
12 <sup>TH</sup>	01	Dismantle over haul and assemble a three phase squirrel cage motor. Test and run .
	02	Dismantle over haul and assemble a three phase squirrel cage motor. Test and run .
13 <sup>TH</sup>	01	Dismantle over haul and assemble a three phase wound motor. Test and run.
	02	Dismantle over haul and assemble a three phase wound motor. Test and run .
14 <sup>TH</sup>	01	Overhaul a single phase variac
	02	Overhaul a single phase variac
15 <sup>TH</sup>	01	Overhaul 3-phase variac.
	02	Overhaul 3-phase variac

*As*  
19-12-25

*Ull*  
19/12/2025

SIGNATURE OF THE FACULTY

ASHWINI KU. SAHU  
Sr.Lect.(Elect.)  
Govt.Poly.Bhadrak

Lect.in Elect.Engg.  
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