	GOVERNMENT POLYTECHNIC, PURIDEPARTMENTOFELETRICALENGINEERING	
Discipline: **ELECTRICAL ENGG.**	Semester: **4TH**	Name of the Teaching Faculty:. **MR NILAKANTHA NAIK & JASOBANTA BARIK**
Subject: **.ELECTRICAL WORKSHOP PRACTICE**	No. of classes allotted per week :**06**	Semester-**6th** From date:**16.01.2024** To Date: **26.04.2024** No.of Weeks:**15**
PRE-REQUISITE	Basic knowledge about making of Electrical Appliances.	
COURSE OUTCOMES	On successful completion, a student will be able to: 1. Familiar with different cables and overhead line joints. 2. Familiar with practical electric installation of residential buildings. 3. Perform fault detection and maintenance of different electrical gadgets in residential buildings. 4. Perform fault detection and repair of DC and AC machines with their accessories. Familiar with connection and testing of different types of lamps.	

Week	Class Day	Theory/Practical Topics	DELIVERY METHOD
1ST	1ST	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 Tjoint and Married joint.	Whiteboard
	2ND	Cutting copper and aluminum cable and crimping lug to them from 2.5mm2 to 6 mm2 cross section	Whiteboard
2ND	1ST	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 .	Whiteboard
	2ND	Study battery charger and make charging of lead acid battery	Whiteboard
3RD	1ST	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.	Whiteboard
	2ND	Fault finding & repairing of Ceiling Fan – prepare an inventory list of parts	Whiteboard
4TH	1ST	Find out fault of D.C. motor starters and A.C motor starter – prepare an inventory list of parts used in different starters.	Whiteboard
	2ND	Dismantle, over haul and assemble a single phase induction motor. Test and run it. – prepare an inventory list.	Whiteboard
5TH	1ST	Dismantle over haul and assemble a three phase squirrel cage and phase wound motor. Test and run them	Whiteboard
	2ND	Overhaul a single phase and 3-phase variac	Whiteboard

LEARNING RESOUCES:

01. Electrical Design and Drawing , Surjit Singh , Dhanpat Rai & Sons
02. Electrical Engineering Drawing, C.R. Dargan , Asian Publication

10/01/24
Sign. of Faculty concerned

10/1/24
Principl
G.P Puri

L.P.
Sign.of HOD 10.1.24