



# Prof. Rajendra Singh (Rajju Bhaiya) University, Prayagraj

## Vocational/ Skill Development Course

Programme/Course: **Diploma**

Course Code: **I010002T**

Subject: **Vocational Course**

Course Title- **Maintenance and Repairing of Electrical Equipments.**

Credits: **3 (1+2)**

Max. Marks : **40+60 (100)**

Min. Passing Marks: **40**

Unit	Topics	No. of Lectures Theory=15, Practical=60
I	Basics of Common electrical materials i.e., wire, cable, switches, fuse, tools etc., demonstration and identification of electrical materials, standard ratings and specifications of commonly used electrical materials.	Theory=03
II	Identification of Phase, Neutral, and Earth wires, Connections of domestic electrical appliances (Two pin plugs and Three pin plugs), House wiring circuits using fuse, switches and sockets.	Theory=04
III	Working of auto electric iron, electric kettle, ceiling/table fan desert cooler.	Theory=04
IV	Working of Lead acid battery, Working of battery charger, Testing of battery with hydrometer and cell, Installation of battery and connections of two and three battery in series and parallel.	Theory=04

### Reference books:

- 1- Basic Electrical Engineering by J B Gupta, S.K Kararia & Sons publications.
- 2- Principles of Power System by V.K Mehta, S.Chand and Company Limited Publications.
- 3- Electrical Design, Drawing & Estimation-I by T.D Vist Asian Publication.