

Course Name: Basics of Electrification and Solar Power Technologies

Introduction: This course is for developing skills on electrical works. After this course student can do house wiring and setting up solar connection. This course is beneficial in learning the basics of electricity.

Duration: 3 Weeks (36 hours)

Aims& Objectives of Basics of Electrification and Solar:

The aims and objectives of this course are listed below:

- ❖ Basic Electrical system
- ❖ Understand the Fundamentals of Current, Voltage, power electrical Symbols etc.
- ❖ Familiarization and safety use of various tools.
- ❖ Identify the cable sizes and perform cable jointing.
- ❖ Earthing, Earth resistance testing and maintenance.
- ❖ Planning of the layout with single line diagram for installation of electrical wiring.
- ❖ Performing House wiring/ Hospital wiring/ Office/ Go down wiring etc.
- ❖ Diagnose electrical problems using layout diagrams or blueprints.
- ❖ Inspect, troubleshoot, and conduct tests using suitable testing devices.
- ❖ Repairing of the faulty electrical wiring system.
- ❖ All safety precaution under standard regulations.

Syllabus of Basics of Electrification and Solar:

- Understanding electrical system and electrification.
- Installation/Fitting (Wiring)
- Solar PV systems

Program Outcome:

- Students will learn the basics of electricity and it's working.
- Students will learn the electrical system and electrification of household and industry.
- Students will learn to install house wiring and fitting of wires.
- Students will know the working of Solar PV system and its efficiency.

Admission Process:

- The candidates who are willing to apply should be class VIII to XII or School Dropouts.
- The candidates should check the eligibility criteria and course detail from the college website.
- The candidates should bring the required documents for the admission which will be used for filling the admission form.
- The students shall have to pay the required amount for completion of the course.

Student Enrolment and Completion List

Year	Total Students enrolled	Successfully Completed candidate
2021	nil	nil
2022-23	32	13