



**Name of Group:** Electronics Division.

**Name of Course:** *Certificate Course in Solar-LED (Design and Manufacturing)*

**Objective:**

- To train the students with the knowledge of Basic Electronics, Circuit Building and it's testing.
- To make familiar Electronics Component of LED and SOLAR installation Process.

**Duration:** 1 Month.

**Batch Size:** 30

**Eligibility:** Diploma/B.Sc./B.Tech/ITI/In Electronics, Electrical, Instrumentation Engineering or its equivalent. (Completed or Pursuing)

**Course Content:**

<b>Modules:</b>	<b>Instruments and Measuring techniques to be covered.</b>
Introduction of Light Sources	Introduction of Light Sources, characteristics of light sources, Introduction to light units- candela, Lux & units.
Comparative Study of LED and other Light Sources	Introduction of LEDs, Principles of operation, Efficiency, lifetime and quality of LEDs, type of LEDs.
Introduction of Renewable Energy & Comparative Study of Solar Photovoltaic Cells	Principal and Working of Solar Photovoltaic Cells (SPV)
Installation and Maintenance of Solar Panel	Installation Process of Solar Panel
PCB designing	Introduction to PCB Designing and future scope

- \* These sessions will include Theory Classes, Demo and Practical, assignment and Project.