



## **3 MONTH CERTIFICATE PROGRAMME IN RENEWABLE ENERGY**

### **Induction:**

- Energy Classification
- Introduction to different renewable energy

### **Basic Electrical Manual Training:**

- Electric Current and its terminology
- Measurement of electric current
- Series and parallel connections
- Magnetism and its terminologies
- Direct current vs Alternating current
- Discussion about Ohms law, Current, Voltage, KCL, KVL.
- Transformers.
- Alternators,
- Protection systems
- Control Room Operations
- Machine operations
- Energy Storage and its applications
- Safety Measures

### **Photovoltaic Systems:**

- Types of Solar Cells,
- Batteries,
- Charge Controller,
- AC/DC Systems,
- Balance of system components,
- Wiring design,

### **Designing of Rooftop Solar System:**

- SLD and Design of Solar PV System (both ongrid & offgrid)
- BOQ Formulation

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### **Basic introduction to Solar Products:**

- Solar street lighting system,
- Solar home lighting system,
- Solar water heating system
- Solar Pumps
- Solar lantern

### **Troubleshooting of Solar Plant Faults**

### **Operation and Maintenance of Solar Plant**

### **Basic introduction to Solar Market**

### **Basic introduction to Solar Marketing & Marketing strategy**

### **Basic introduction to Renewable energy Policies & Subsidies**

### **Other Renewable energy Sources:**

- Other renewable technologies like hydro, biomass, biogas, wind etc,
- Designing of Wind, hydro and biogas Energy.
- Project report preparation,

### **Designing of Ground Mounted Solar System**

### **Soft Skill Development**

- leadership quality,
- Supervisor training,
- Guidelines of entrepreneurship.
- Personality Development
- Soft Skill Training

### **Practical Classes**

- Designing of Solar Rooftop power plant using PVsyst
- Manual designing of Solar power plant its calculation
- SLD Formation from Autocad drawing
- Designing and assembly of Solar products

**Industrial Visit:** Students will be provided with practical examples by taking them for the Onsite Visit.

### **Hardware Design and Submission**

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