



**SANDIP FOUNDATION'S
SANDIP INSTITUTE OF ENGINEERING AND
MANAGEMENT
MAHIRAVANI, NASHIK**

DEPARTMENT OF ELECTRICAL ENGINEERING

EVENT REPORT

2-Days Hands on Training on Solar Energy

In asso. With kWATT Solutions Pvt. Ltd., Mumbai
11-12th October, 2019

Staff Coordinator: Prof. Dr. K V Bhadane

Staff Visiting: Prof. T. J Bharambe

The workshop imparts training in the field of Solar Energy and creates solar exports to fulfill India's manpower needs as envisioned in the National Solar Mission of Ministry of New and Renewable Energy(MNRE), Government of India. The hands on training consisted of various customized in-house and practical training modules created to impart the concepts of solar energy conversion and utilization from basics to advanced levels for students, professionals and organizations.



The participants with trainers

Module Details:

DAY1 –

Part 1 (Overview)

- Solar Energy Scenario in India & Job Opportunities
- Basics of Solar Photo Voltaic Technology (PV)



Part 2 (PV System Design & Simulation Software)

- Basics of simulation Software
- Concepts of PV System Design
- Design a Solar Power Plant to light/power your own house/college
- Understand the system design using simulation tool
- Hands on experience to determine PV size, Inverter & Battery Capacity using tool
- Estimation of monthly power generation and financial savings



DAY 2

Part 3 (Hands on Session)

Solar Operated Mobile Charger

- Design and build your own Solar Mobile Charger
- Get practical insight into basic and advanced features

Light seeking Robot

- Design and build your own Vision 180
- Get practical insight into basic and advanced features

Part 4- Solar Take away Kit

- 2 X Solar Panel of 0.3 W for testing Circuits
- Solar Mobile Charger kit



