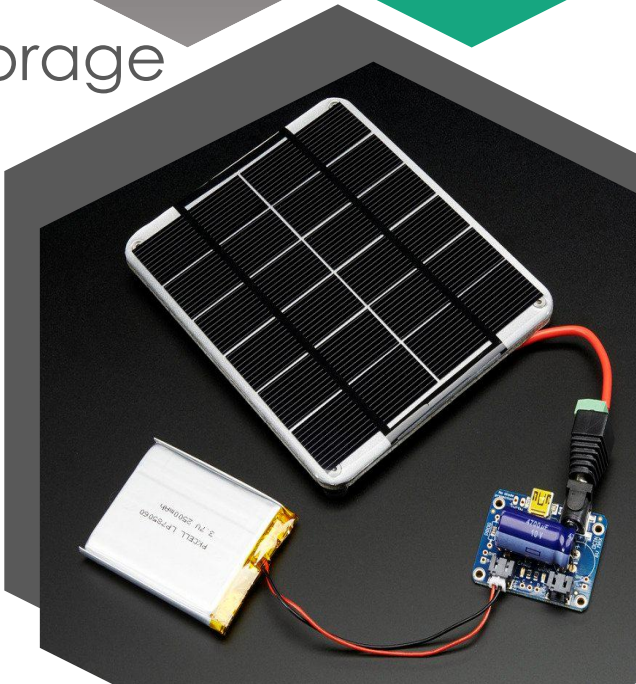




THREE DAYS WORKSHOP

Energy Storage for Solar PV



Dates: 28/11/2018 -
30/11/2018

Registration Last

Date: 31/10/2018

Energy Storage for Solar PV

This workshop is designed to provide participants with the knowledge and tools required to grasp both the technical and understanding aspects of Electrochemical Storage and Solar PV integrations for off grid and roof top solar photovoltaic design and installation.



WHO MAY BENEFIT:

The course is targeted the participants from Industry, academia, Storage startups, graduate and post-graduate students from different universities and Institutions.





COURSE OUTLINES

- Batteries, Types of batteries.
- Characteristics of batteries, Battery Datasheet.
- Energy storage in batteries. Battery capacity. Charging rate. Cutoff voltage. Depth of discharge (DOD), etc.
- Maintenance of batteries. Effect of temperature. Combining batteries. Battery selection criteria. Installation requirements. Life expectancy of batteries.
- Factors that affect the life of batteries. Cost of batteries
- System Controllers Introduction: Purpose of controller. The charge/discharge cycle. Overcurrent protection. Types of controllers
- Inverters Introduction: Purpose of inverter, Types of inverters.
- AC system: frequency, rms, peak value, voltage, current, harmonic distortion. Power factor.
- System Sizing Introduction. Resource assessment. Average daily energy usage. Total Ah demand per day.
- Sizing the controller. Sizing the battery charger. Sizing the fuel generator set. Generator set run time.
- Economics Introduction. Basic economics: simple payback period, Life Cycle Costing.

HANDS ON FACILITY

The course would include hands on training and showcasing the different Battery fabrication facilities and Testing instruments.



Coordinator:
Prof. Sagar Mitra

**CREATE
WORK
INSPIRE**

Course Duration: 3 Days

Venue: IIT, BOMBAY [VMCC]

Dates: 28/11/2018 - 30/11/2018

Registration Last Date: 31/10/2018

2018

Fees:

- Academia: INR 12000
- Govt. Organization: INR 12000
- Industry: INR 18000
- Student (Full Time): INR 6000