

Three-day CEP Short Term course
On

**Grid connected rooftop PV power
plants:
From Basics to installation
with hands-on experience, IIT
Bombay.**

28th - 30th November 2013

Venue:-
IRCC Auditorium, IIT Bombay

Course Coordinator

Prof. Chetan Singh Solanki
Department of Energy Science Engineering.



**National Centre for Photovoltaic Research and
Education
Indian Institute of Technology, Bombay**

Schedule

1st Day - 28th Nov, 2013

Time	Title	Speaker
09:00 - 09:30	Course registration	
09:30 - 10:00	NCPRE Introduction and welcome by coordinator	Prof. C.S. Solanki
10:00 - 11:30	Basics of Solar Radiation, Solar Cells and Modules	Prof. C.S.Solanki (IIT Bombay)
11:30 -12:00	Tea break with informal discussion	
12:00 - 1:00	PV Module Technology Selection	Prof. C.S.Solanki (IIT Bombay)
1:00 - 2:00	Lunch	
2:00 - 3:00	PV module name plate parameters and testing (field)	Mr. Gaurav Tare, Mr. Kaustav, Bhaduri, Prof. C. S. Solanki, 3 Teaching Assistants
3:00 - 4:00	Basics of MPPT and grid connected Inverters	Prof. B.G.Fernandes (IIT Bombay)
4:00 - 4:30	Tea break	
4:30 - 5:30	Grid connected Inverter Technology Selection	Prof. B.G.Fernandes (IIT Bombay)

2nd Day -29th Nov, 2013

Time	Title	Speaker
09:30 - 10:30	Introduction to grid connected rooftop PV Plant and Feasibility Study	Prof. C. S. Solanki / Mr. VamanKuber

10:30 - 11:30	DC Electrical design	Mr. LalitYadav
11:30 - 11.45	Tea Break	
11.45 - 1:15	AC Electrical design and Plant BoS Components	Mr. Sahoo, Mr. KaustavBhaduri
1:15 - 2:15	Lunch Break	
2:15 - 3:15	Plant Civil and Structural Design	Plant Civil and Structural Design
3:15 - 4:15	Inverter name plate parameters and testing, BoS (field)	Mr. Gaurav Tare, Mr. Kaustav Bhaduri, Prof. C. S. Solanki, 3 Teaching Assistants
4:15 - 4:30	Tea Break	
4:30 - 5:30	Support Structure Installation and testing (field)	Mr. Gaurav Tare, Mr. KaustavBhaduri, Prof. C. S. Solanki, 3 Teaching Assistants

3rd Day-30th Nov, 2013

Time	Title	Speaker
9:30 - 10:30	Plant Monitoring Systems Basics	Mr.Shailendra Mittal
10:30 - 11:30	Plant Installation and Testing (Classroom)	Mr. Shourabh Roy
11:30 - 11:45	Tea Break	
11:45 - 12:45	PV array installation and testing (field)	Mr. Gaurav Tare, Mr. KaustavBhaduri, Prof. C. S. Solanki, 3 Teaching Assistants

12:45 - 1:45	Power Evacuation (field)	Mr. Gaurav Tare, Mr. KaustavBhaduri, Prof. C. S. Solanki, 3 Teaching Assistants
1:45 - 2:45	Lunch Break	
2:45 - 3:45	Data Acquisition and Solar Monitoring Station Installation and Testing (field)	Mr. Gaurav Tare, Mr. KaustavBhaduri, Prof. C. S. Solanki, 3 Teaching Assistants
3:45 - 4:00	Tea Break	
4:00 - 5:00	Plant Commissioning and Acceptance (field)	Mr. Gaurav Tare, Mr. KaustavBhaduri, Prof. C. S. Solanki, 3 Teaching Assistants
5:30 - 5:30	Certificate Distribution and Participants Feedback	Prof. C.S. Solanki, Mr. Vaman Kuber
5:30 - 6:30	Plant Components Procurement and Quality Testing	Mr. Sahoo, Mr. Shourabh Roy
6:30 - 7:30	Plant Monitoring, Operation, Repair and Maintenance (classroom)	Mr. B.K. Sahoo, Mr. Shourabh Roy