

Three-day CEP Short Term course
On

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

19th – 21st February 2014

Venue:-
VMCC, 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 - 19th Feb, 2014

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, Mr. Vaman Kuber, 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 with informal discussion	
4:30 - 5:30	Grid connected Inverter Technology Selection	Dr. Venkat Rajaraman

2nd Day -20th Feb, 2014

Time	Title	Speaker
09:00 - 11:00	Introduction to grid connected rooftop PV Plant and Feasibility Study	Prof. C. S. Solanki / Mr. Vaman Kuber
11:00 - 11.15	Tea Break	
11:15 - 12:15	DC Electrical design	Mr. Lalit Yadav
12.15 - 1:45	AC Electrical design and Plant BoS Components	Mr. Sahoo, Mr. Kaustav Bhaduri
1:45 - 2:45	Lunch Break	
2:45 - 4:00	Inverter name plate parameters and testing, BoS (field)	Mr. Gaurav Tare, Mr. Kaustav, Bhaduri, Prof. C. S. Solanki, Mr. Vaman Kuber, 3 Teaching Assistants
4:00 - 4:15	Tea Break	
4:15 - 5:15	Plant Civil and Structural Design	Mr. Ghate

3rd Day-21th Feb, 2014

Time	Title	Speaker
9:00 - 10:00	Plant Monitoring Systems Basics	Mr. Prejith E.K.
10:00 - 11:00	Plant Installation and Testing	Mr. Sumit Das
11:00 - 11:15	Tea Break	
11.15 - 12.30	PV array and support structure installation and testing (field)-All groups	Mr. Gaurav Tare, Mr. Kaustav, Bhaduri, Prof. C. S. Solanki, Mr. Vaman Kuber, 3 Teaching Assistants
12.30-1.30	Lunch	
1.30 - 2:30	Power Evacuation (field) – Gr1, Gr2, Gr3 Data Acquisition and Solar Monitoring Station Installation and Testing (class) – Gr4, Gr5	Mr. Gaurav Tare, Mr. Kaustav, Bhaduri, Prof. C. S. Solanki, Mr. Vaman Kuber, 3 Teaching Assistants
2:30 - 3.30	Power Evacuation (field) – Gr4, Gr5 Data Acquisition and Solar Monitoring Station Installation and Testing (class) – Gr1, Gr2, Gr3	Mr. Gaurav Tare, Mr. Kaustav, Bhaduri, Prof. C. S. Solanki, Mr. Vaman Kuber, 3 Teaching Assistants
3:30 - 4:30	Plant Commissioning and Acceptance (field)	Mr. Gaurav Tare, Mr. Kaustav, Bhaduri, Prof. C. S. Solanki, Mr. Vaman Kuber, 3 Teaching Assistants
4:30-4.45	Tea break	
4:45-5.30	Certificate Distribution and Participants Feedback	Prof. C.S. Solanki, Mr. Vaman Kuber
5:30 - 6:00	Million Soul project	Prof. C.S. Solanki