INTRODUCTION

India has launched the Jawaharlal Nehru National Solar Mission (JNNSM) in 2009-10 with the ambitious target of installing 20,000 MW of solar power, solar Photovoltaic (PV) as well as solar thermal, in the country by year 2022. The JNNSM provides incentives that promote solar PV system installations both at grid-connected PV system and off-grid PV system levels. There is several state Governments in India that are also making and implementing their own plans for promoting solar PV systems by incentivising the installations. Also, in last 1 to 2 years, the prices of PV modules have fallen significantly. Considering the scenario of favourable Government policies and reduction in prices of solar PV modules, there is a huge interest for the installation of solar PV system. In order to enable the deployment of solar PV systems in India, there is a need for large number of trained people in the solar PV area. As per the MNRE, Govt. Of India, the requirement is of 100,000 people. The trained manpower is required at various levels ranging from researchers, engineers to technician or PV system installers. This program aims at training people who install or will be going to install solar PV systems in future.

COURSE CONTENTS

The following topics would be covered in the course:

- Basics of electricity and related concepts
- Basics of energy, its units, quantities of energy
- Concepts of solar cells
- Interconnection of solar cells in PV modules
- Design of PV array
- Fundamentals of batteries
- Interconnection of batteries(series and parallel connections)
- Electronics that are used in PV systems
- Details about wires, their physical sizes
- Design of standalone solar PV system
- Grid connected PV system
- Maintenance and troubleshooting of PV components and PV system as a whole.

Who May Benefit

The course would benefit anybody who wants to work with solar PV system, particularly technician, trainers and engineers (or any PV system practitioner) who is working on solar PV system for design, installation and maintenance of solar PV systems of all types. The workshop would also be an excellent opportunity to learn several aspects of Solar PV technology and gets hands on experience in designing and assembling solar PV systems.

VENUE FOR CLASSES

Course will be held at VMCC Lecture Hall No.31, IIT Bombay-

LECTURE NOTES

To fully realize the objectives of the course, the lecture notes/slides will be made available to the participants at the time of registration at IIT Bombay.

FACULTY

The teaching faculty constitutes experts from the Department of Electrical Engineering of IIT Bombay and invited Lecturers from Industries.

ACCOMMODATION

Accommodation on twin sharing basis is available in the Institute Guest house/Hostel for a limited number of participants on payment basis and with an advance request.

IMPORTANT DATES

Last date for receipt of registration form:


Note:

→ Incomplete forms will not be accepted
→ For additional copies of the registration form, please use a photocopy or type in the format given.
REGISTRATION

The course fee per participants will be as follows:

<table>
<thead>
<tr>
<th>Participants</th>
<th>NCPRE Fees Three Day course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry personnel</td>
<td>15000+15% service tax =17250/-</td>
</tr>
<tr>
<td>Personnel from Academic Institutions &amp; Government</td>
<td>10000+15% service tax =11500/-**</td>
</tr>
<tr>
<td>Organizations</td>
<td></td>
</tr>
<tr>
<td>Students</td>
<td>5000+15% service tax =5750/-**</td>
</tr>
</tbody>
</table>

**50% subsidy with TA/DA will be available up to 20 Faculty/Students.

The fee includes course material, lunch and refreshments. Limited accommodation may be available for academic participants, but is not included in the above fee.

The demand draft should be drawn in favour of “The Registrar, IIT Bombay- CEP Account” payable at Mumbai. For on-line payments, please click here for Bank Details.

No income tax is to be deducted at source from the course fee, as IIT Bombay is exempt from the same. The course fee includes course material, lunch and coffee/tea.

A Certificate of participation will be awarded to all the participants of the course.

Completed registration forms should be sent to the course coordinator at the following address:

Ms. Smita Bhattacharjee
NCPRE, IIT Bombay
Room No: 312, 3rd floor
Transit building
Near Powerhouse, hillside area
Powai, Mumbai-400076
+91-022-25764480,
smita98@iitb.ac.in

For information on other Solar Photovoltaic (PV) courses, please visit http://www.ncpre.iitb.ac.in/events.php

CEP Short Term Course on

“PV System Design and installation”

25 -27 May, 2017

Coordinator

Prof. Chetan Singh Solanki.

Department of Energy Science and Engineering
Office of

Continuing Education & Quality Improvement Programmes

Indian Institute of Technology Bombay
Powai, Mumbai – 400 076
REGISTRATION FORM

Three-day CEP Course on
“PV System Design and installation”
25 -27 May, 2017

NAME (BLOCK LETTERS) : ________________________________

Gender: M / F

DESIGNATION :
_______________________________________________________

ORGANIZATION:
______________________________________________________

MAILING ADDRESS :
_________________________________________________________

TELEPHONE : ____________________ (O) _________________
(R)

FAX: ____________________________ MOBILE:
________________________________

EMAIL :
______________________________________________________________

QUALIFICATIONS : ________ EXPERIENCE : _______ Yrs.

IIT Guest House accommodation required?* YES / NO

PAYMENT: D.D. No.: Dt. Rs.

[Demand draft should be drawn in favour of "Registrar, IIT Bombay (CEP A/c)"]

Date: Signature of Applicant

*Guest House bill to be paid directly by participant.

On-line Payment Transaction Details

Kindly arrange to provide the following transaction details, if the course fee is paid on-line:

1. Name of the Course Participant:

2. Transaction No.:

3. Date of Transaction:

4. Amount:

5. Bank & Branch Name from where transfer is done:

(PHOTOCOPY ADDITIONAL COPIES OF THIS FORM, IF NEEDED)