



NATIONAL CENTRE FOR PHOTOVOLTAIC RESEARCH AND EDUCATION

Continuing Education Programme 3-Day Short-Term Course on

“Theory & Technology of Silicon Solar Cell”

Course Contents:

- Introduction to the physics of semiconductor devices (band diagram, optical absorption, generation - recombination, transport, pn-junction diode characteristics)
- Theory of silicon solar cells (characteristics of silicon solar cell, design of silicon solar cells - optical design, junctions, passivation, impact of these parameters on solar cell characteristics, IV measurements, quantum efficiency measurements)
- Fabrication of low-cost industrial full area Al-BSF and local area Al BSF (PERC) silicon (both mono and multi) wafer solar cells
- Simulation of solar cell using PC1D: a practical session
- Loss analysis of Al-BSF solar cells: a practical session
- Luminescence imaging of Si wafer & solar cells for process, device development and diagnostics
- Advanced silicon solar cells

Course Coordinators: A. Kottantharayil, NCPRE, IIT Bombay

Date : September 18-20, 2017.

Venue: VMCC, IIT Bombay, Mumbai

Registration Details:

There are limited numbers of seats for the course. Please fill the online registration form available on our website. Once your profile has been approved by the course coordinators, (you will receive a mail regarding the same), you need to send the hard copy of completed Registration Form, along with the fees to the address given below. The fees can be paid **online** (details given below) or by **demand draft** in favour of “**Registrar IIT Bombay - CEP Account.**”

The course fee per participant will be as follows:

Participants	Fees
Individual/Industry personnel	18000/-*
Personnel from Academic Institutions ,Government Organizations & NGO	11500/-*
Current Students	5750/-*

* Fees inclusive of 18% service taxes

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

Online Payment Details:

Bank Details

Name of the Bank : State Bank of India

Bank Branch : IIT Powai

Address : A.S. Marg, Powai (IIT Main Gate),
Mumbai-400 076 India.

Phone with code : +91-22-25728555

Bank Code and A/c No.

Beneficiary : Registrar, IIT Bombay

Bank A/c No. : 10725729128

Account Type : CURRENT

MICR Code : 400002034

IFSC Code : SBIN0001109

SWIFT code : SBININBB519

Purpose / Reference : CEP course

Email ID : cep@iitb.ac.in

The Participants should give the following details regarding on-line payment:

1. Name of the person who deposits the amount in Bank
2. Transaction No.
3. Date of Transaction
4. Amount
5. Bank & Branch Name

Contact/Address to send DD:

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>