



National Centre for Photovoltaic Research and Education (NCPRE)

Three day CEP course on

C-Si Solar Cells and Modules: Theory, Fabrication and Characterization

April 19th – 21st, 2012

Venue:

Seminar Hall, 2nd Floor

Victor Menezes Convention Centre (VMCC)

IIT Bombay



Indian Institute of Technology, Bombay (IITB)

C-Si Solar Cells and Modules: Theory, Fabrication and Characterization

Day 1
19th April, 2012

Time	No	Title	Speaker
9:00 - 9:30		<i>Course Registration and Course Material Distribution</i>	
9:30 – 10:00		Course Inauguration	
9:30 - 9:40		Welcome and brief introduction to NCPRE	Prof. Juzer Vasi
9:40 - 9:50		Introduction to Education Programs under NCPRE	Prof. Pratibha Sharma
9:50 - 10:00		Introduction to the workshop	Prof. Anil Kottantharayil
10:00 - 11:30	1	Fundamentals of Solar Energy Conversion	Juzer Vasi, IIT Bombay
11:30 – 12:00		<i>Tea break with informal discussion on previous lectures</i>	
12:00 - 13:00		Fundamentals of Solar Energy Conversion (continued)	Juzer Vasi, IIT Bombay
13:00 - 14:00		<i>Lunch</i>	
14:00 - 15:30	2	Loss mechanisms	Chetan Singh Solanki, IIT Bombay
15:30 - 15:45		<i>Tea break with informal discussions on previous lectures</i>	
15:45 – 16:00		<i>Introduction to Software Training Workshops by Spoken Tutorial Project, IIT Bombay – Prof. Kannan M Moudgalya</i>	
16:00 - 17:30	3	Strategies for Improvement	Chetan Singh Solanki, IIT Bombay

Day 2
20th April, 2012

Time	No	Title	Speaker
9:30 – 11:00	4	Characterization of Cells / Material	B.M. Arora, IIT Bombay
11:00 – 11:30		<i>Tea break with informal discussions</i>	
11:30 - 13:00		Characterization of Cells / Material (continued)	B.M. Arora, IIT Bombay
13:00 - 14:00		<i>Lunch</i>	
14:00 - 15:30	5	Silicon: Material Properties and Wafer Production	Anil Kottantharayil, IIT Bombay
15:30 - 16:00		<i>Tea break with informal discussion</i>	
16:00 - 17:30	6	Crystalline Silicon Solar Cell: Process and Production Technology Overview	Kaushik Vaidya, Applied Materials, Bangalore

Day 3
21st April, 2012

Time	No	Title	Speaker
9:00 - 11:00	7	Module Manufacturing Technology	Vasanthi Sreeram, Webel Solar, Kolkata
11:00 - 11:30		<i>Tea break with informal discussion on previous lectures</i>	
11:30 - 13:00	9	Module Testing and Certification	C. S. Kamalaksha, TUV Rheinland (India), Bangalore
13:00 - 14:00		<i>Lunch</i>	
2:00 onwards	10	Lab Visit: Visit to lab and inspection of fabrication and characterization tools used for solar cell fabrications.	Diksha Makwani, NCPRE