Develop Technological Knowledge in Silicon Photovoltaic Market

OVERVIEW

With the rapid pace of growth in technological knowledge and frequent paradigm shifts in technology, PV market has developed an immense growth. There have been major changes in the underlying costs, industry structure and market prices of PV technology over the years and gaining a coherent picture of the shifts occurring across the industry value chain globally is a challenge.

Silicon PV technology dominates the global PV market with more than 95% of the market share. With the Government of India announcing policies to encourage domestic manufacturing of PV system components in the country, excellent opportunities for high tech employment generation is anticipated in the PV sector of the country. Meanwhile, Research & Development efforts are being implemented to improve the solar cells and lower the cost continues.

The National Centre of Photovoltaic Research and Education (NCPRE) at IIT Bombay is the premier research centre in the field of PV in the country with a very active research program in the field of Silicon PV. NCPRE has developed 6" X 6" Silicon solar cells with active area efficiency of 21.3%. The course ‘Theory and Technology of Solar Cells’ emphasises on high quality understanding and enhancing the career and business competencies for the professional growth in the PV sector and to develop a deep understanding of the Silicon PV technology.

HANDS ON FACILITIES

The course seeks to address hands on simulation of solar cells and loss analysis of Al-BSF cells. The participants must bring a laptop running Windows OS. There would be visits to NCPRE Silicon solar cell fabrication (6" X 6" cells are fabricated routinely) and characterization facilities. Participants may also get an opportunity to visit our module characterization and fabrication facilities if there is a specific interest.

FACULTY

By Prof. Anil Kottantharayil
Professor of Electrical Engineering; FNAE; SMIEEE) Head of Centre for Research in Nanotechnology & Science (CRNTS) and Sophisticated Analytical Instrument Facility (SAIF)

WHO WILL BENEFIT

This programme, emphasises on high quality understanding and enhancing the career and business competencies for the professional growth in the PV sector and to develop a deep understanding of the Silicon PV technology. It would benefit

1. Industry practitioners
2. Researchers in the policy sector
3. Researchers from R&D institutions
4. Faculty members & Researchers from Academia
5. People starting a career in PV sector
6. Students

KEY INFO

VMCC, IIT Bombay
3 Days
Sep 26th-28th, 2019
Overseas Rs.25,000/-
Organization Rs.20,000/-
Academia Rs.12,000/-
Student Rs.6,000/-

* Fees inclusive of 18% GST. The fee includes course material, lunch and refreshments.

Apply Now

Have a question? Call +91 75067 27060