



Three Days Workshop  
on

# Photovoltaic Technology: From Devices towards Systems

Under  
**TEQIP-III**

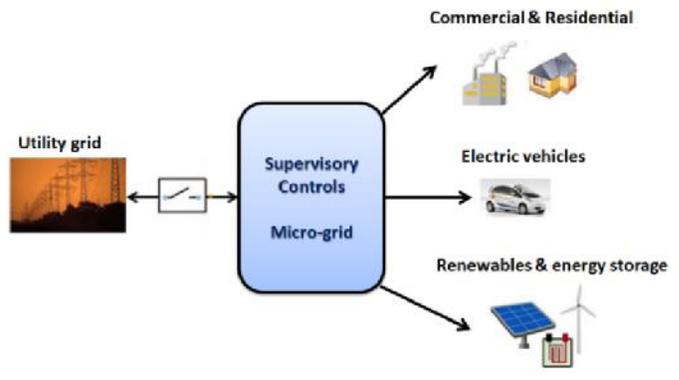
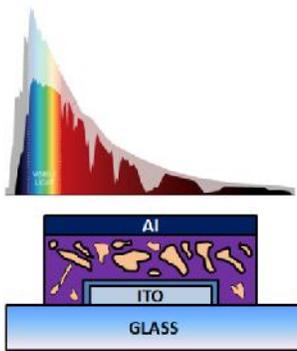
**December 16 - 18, 2019 at IIT Indore**

## Course Objectives:

- (1) Exposing participants to the overall energy scenario in the world and Indian context, emphasizing need of renewable energy sources and understanding solar radiation.
- (2) Exposing participants to the various interdisciplinary aspects of Photovoltaics in terms of materials and cell performance, strategies to improve the performance of cells, modules as well as arrays.
- (3) Significance of Solar Tracking, stand alone PV systems, Grid connected PV systems and Microgrid.

## Who Should Attend:

- ✓ Executives, engineers, managers, and researchers from manufacturing, service and government organizations including R&D laboratories.
- ✓ Faculty members from Higher Education Institutes (HEIs).
- ✓ Students of B.Tech./MSc/M.Tech./Ph.D.



## Course Content

### Lectures

- Introduction to energy scenario. Significance of renewable energy sources.
- Introduction of Solar radiation, materials for PV cell fabrication. Next generation emerging solar cell technologies, Flexible Electronics.
- Stand alone and grid connected PV systems and concepts related to micro grid.
- PV technologies: role of government and its impact on economy.

### Tutorial/Demonstration

- Fabrication of thin film devices
- PVD system
- Electrochemical deposition
- RF-Magnetron Sputtering
- Characterization techniques



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## Speakers

### National:

- Dr. Vipul Singh, IIT Indore (course coordinator)
- Dr. I A Palani, IIT Indore (course co-coordinator)
- Dr. B. K. Lad, IIT Indore
- Dr. Abhinav Kranti, IIT Indore
- Dr. Amod C Umarikar, IIT Indore
- Dr. Trapti Jain, IIT Indore

### International:

- Dr. Shyam S Pandey, KIT Japan.
- Dr. D Nakamura, Kyushu University, Japan.

**Note:** List of speakers is tentative & will be finalized soon

## Registration Process

Category	*Fee (INR)
Participants from TEQIP institute	Free
Others institute faculty members/postdoctoral students	1500
Other institute UG/PG/PhD students	1000
Industry personnel	3000

### **Note:**

- (1) \*50 % discount, if you have already registered for COPEN-2019 (<http://copen2019.iiti.ac.in/>)
- (2) The course fee includes study material, breakfast, lunch, and tea
- (3) Number of seats: Limited
- (4) Accommodation can be arranged, if requested, in hostel subjected to availability. Candidate will have to pay the hostel charges (approximately Rs. 250-500 per day). Please fill the preference for the hostel accommodation in the registration form. We will get back to you with further details.

### **Mode of Payment: e-payment only**

**Name of Account Holder :** IIT Indore  
**Name of Bank :** Canara Bank  
**Branch :** IIT Indore, Simrol, Branch  
**Account Number :** 1476101027440  
**Account Type :** Saving A/c  
**Bank IFS Code :** CNRB0006223  
**Bank SWIFT Code :** CNRBINBBISG

**Important Dates:** The soft copy of the completely filled registration form (next page) along with online payment slip should be sent to [vipul@iiti.ac.in](mailto:vipul@iiti.ac.in), on or before **November 30, 2019.**

Feel free to contact/email the course coordinator for any queries or clarifications.



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## Registration Form

(1) Full Name:

(2) Designation:

(3) Institute/ Organization:

(4) Address:

(5) Hostel accommodation required: Yes /No

(6) Email id:

(7)Phone/Mobile No.:

- Payment details:
- Date of Payment
- Amount
- Online transfer reference number

Signature

Date

**Course Coordinator:**

Dr. Vipul Singh

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