

### ***OBJECTIVES OF THE PROGRAMME:***

In the world arena, the renewable energy resources have attracted considerable attention to meet the increasing energy demand. Since the availability of fossil fuels are decaying day by day with the demand for alternate source of energy generation is quite higher. Under such circumstances, the solar energy has proved to be one of the finest renewable energy resource alternatives with enough potential to meet the power crisis. Although PV modules are cheaper than ever before, yet there is a desperate need to maximize the extracted energy to gain practical returns on the huge investment on PV arrays. To promote solar energy, Government of India have taken initiatives and targeted to deploy 100 GW of grid connected solar power by the year 2022. The above target is possible only by reducing the cost of solar power generation in the country through (i) Long term policy, (ii) Aggressive R&D, (iii) Domestic Production of critical raw material. Hence, to infuse awareness among students, researchers, and faculty members this workshop is planned. This workshop is designed to address the fundamentals of solar cell and their modeling, effect of partial shading on PV arrays, and methods to extract maximum power under all environmental conditions. The workshop methodology includes classroom lectures, case study simulations.

### ***Resource Persons:***

The workshop contents will be delivered by Professors from NIT and Industry persons.

### ***Registration Fee:***

The registration fee includes workshop kit, working lunch and refreshments.

Industry delegates : Rs.800

Faculty/ResearchScholars : Rs.600

### ***COMMUNICATION ADDRESS:***

Dr. K. Mohana Sundaram  
Professor,  
Department of Electrical and Electronics  
Engineering,  
Veltech Multitech Dr. Rangarajan Dr.  
Sakunthala Engineering College,  
Avadi, Chennai-600 062.

Phone: Off: 044 2684 0896

Mobile: 9600047399

### ***Email:***

kmohanasundaram@veltechmultitech.org

### **Founders**

Col.Prof.Vel.Sri.Dr.R.Rangarajan,  
Chairman

Dr.Mrs.Sakunthala Rangarajan,  
Vice Chairman

### **Chief Patrons**

Dr.Mrs.Rangarjan Mahalakshmi Kishore,  
Chairperson and Managing Trustee

Mr.K.V.D Kishore Kumar,Vice President

### **Patron**

Dr.V.Rajamani,Principal

### **Convener**

Dr.K.Mohana Sundaram, Professor/EEE

## **One day Workshop On Fundamentals of Photo- Voltaic cells and Modeling of PV cells**

**On**

**August 19, 2017**

**Organized by**



**Department of Electrical and Electronics  
Engineering,**

**Veltech Multitech Dr.Rangarajan**

**Dr.Sakunthala Engineering College,**

**Chennai, Tamil Nadu – 600 062.**

### ***ABOUT THE COLLEGE***

Vel Tech City of Education set up in 1990 by Founder couple Dr.R.Rangarajan & Dr.Sakunthala Rangarajan, has a current students strength of 18000 houses a deemed university, three Engineering colleges affiliated to Anna University, four business schools, nursing college, polytechnic college and schools. Research is the part and partial of the regular teaching learning activities in Vel Tech. More than 20 Million INR is received as R&D grant through various government funding agencies like DST , ICMR, CPRI, SERB, TNSCST, INSA, FAER etc., and private industries such as Hyundai, IBM, K-Lites etc., for various research projects. Veltech Multitech Dr. Rangarajan Dr.Sakunthala Engineering College popularly known as Vel Tech Multi Tech was established in 1999 with the vision to provide right environment for technology transformation to the young minds. The campus is extended over an area of 30.45 acres of lush greenery campus and the Institute is imaginatively laid-out with picturesque landscape. The instructional buildings include departments, a central library, common amenities and student's hostels with the walking distance from Institute. The sprawling campus with state of the art laboratories cultivates good character and ethics.

### ***ABOUT THE DEPARTMENT***

The Department of Electrical and Electronics was established in the year 2001 with the approval of AICTE .Our Mission is to mould the students and make them expertise in the field of Electrical as well as Electronics.

The department is established with recognized Research centre by Anna University, Chennai. CPRI project was undertaken and successfully completed. MODROBS for embedded lab was sanctioned by AICTE in the year 2014. The department is awarded with AICTE CII survey in the category of Platinum. EEE Department has conducted many technical symposium, conferences and workshops to make the students to bring out their skills in all aspects. Extensive laboratory facilities for various labs including Embedded Systems, Machines Lab, Control Systems lab, Power Electronics Lab etc. are available.

#### ***TOPICS COVERED:***

- Fundamentals of PV cells
- Modeling of PV cells
- Impact of partial shading on PV systems
- Simulation of interconnection schemes

#### ***TARGET PARTICIPANTS:***

- Research Scholars
- Faculty
- Industry Personnel

#### ***Dates to remember:***

Completed registration forms accompanied by registration fee (in the form of DD) should reach the coordinator not later than 12th August 2017. The selected candidates will be intimated by 14th August 2017. DD should be taken in favour "Vel tech Multitech Dr.Rangarajan Dr.Sakunthala Engineering College" payable at Chennai.

### **REGISTRATION FORM**

**One day Workshop  
On  
*Fundamentals of Photo-Voltaic cells and  
Modeling of PV cells*  
On  
19 August 2017**

**Name:**

**Designation:**

**Organization:**

**Official Address:**

**Mobile/Telephone No:**

**Email:**

***Payment details***

**DD No:**

**Date:**

**Amount:**

**Signature**