

## RESOURCE PERSONS

Technical lectures and hand on training will be provided by resource persons from Trident Techlabs Private Limited, Chennai.

## TARGET AUDIENCE

This two days hands on training is deliberately designed for the professionals working in:

- Faculty Members from Academic Institutions
- Ph.D Research Scholars
- Professional from Industries

## ORGANIZING COMMITTEE

Chief Patron

**Dr.S.R.K. PRASAD,**  
Correspondent, CIT, Coimbatore

Patron

**Dr.R. PRABHAKAR,**  
Secretary, CIT, Coimbatore

President

**Dr. V. SELLADURAI,**  
Principal, CIT, Coimbatore

Chairperson

**Dr. S. VASANTHARATHNA,**  
Head of the Department, Department of EEE, CIT

Organizing Secretary

**Dr. E. CHANDIRA SEKARAN,**  
Associate Professor, Department of EEE, CIT

Coordinator

**Er. S. R. SIVARASU,**  
Assistant Professor, Department of EEE, CIT

## REGISTRATION FEE

The fee structure for the training includes course kit, lunch, and refreshments for two days

Industry Delegates	Rs. 500
Academic and Ph.D Scholars	Rs. 300

## REGISTRATION DETAILS

All the registrations in the prescribed form along with the applicable registration fee in the form of Demand Draft (DD) should reach the address mentioned below not later than 06<sup>th</sup> August 2013. The selected delegates will be intimated on 07<sup>th</sup> August 2013 through email.

For more details and registration form, log on to [www.cit.edu.in](http://www.cit.edu.in)

DD to be drawn in favor of "The Principal, CIT" payable at "Coimbatore"

Registration form along with DD to be sent to:

### **Dr. E. CHANDIRA SEKARAN,**

Associate Professor,  
Organizing Secretary,

### **Department of Electrical and Electronics Engineering,**

COIMBATORE INSTITUTE OF TECHNOLOGY,  
COIMBATORE 641 014. TAMIL NADU, INDIA.

Mobile : 96292 83060, 99420 29372, 94420 03930,

E-mail : citeeeg@gmail.com

### **Mr. PRASANNA SHANKAR,**

Regional Manager – Tamil Nadu & Puducherry,  
Trident Techlabs Pvt. Ltd.,

Mamanji Centre, S7, 3<sup>rd</sup> Floor,  
Thiru – Vi – Ka Industrial Estate,  
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Mobile: +91-99400 90949,

Ph: +91-044-4335 8484, Fax: +91-044-4335 8483

Email: [chennai@tridenttechlabs.com](mailto:chennai@tridenttechlabs.com)

TEQIP Phase II Sponsored  
Two Days Hands on Training  
on

## **POWER ELECTRONICS, POWER SYSTEM AND RENEWABLE ENERGY - DESIGN MODELING AND SIMULATION USING PSIM**

9<sup>th</sup> and 10<sup>th</sup> August 2013



Organizing Secretary

**Dr. E. CHANDIRA SEKARAN**

Coordinator

**Er. S.R. SIVARASU**

Jointly Organized with

**TECHLABS**

An ISO 9001:2008 Company  
Delhi | Bangalore | Chennai | Hyderabad | Dehradun | Pune | Kolkata  
[www.tridenttechlabs.com](http://www.tridenttechlabs.com)

Trident Techlabs Private Limited, Chennai

Organized by

Department of Electrical and Electronics Engineering

**COIMBATORE INSTITUTE OF TECHNOLOGY**

(A Government Aided Autonomous Institution)

COIMBATORE - 641 014, TAMILNADU, INDIA.

## ABOUT CIT

Coimbatore Institute of Technology (CIT) started in 1956 by Sri.V. Rangasamy Naidu is reckoned for its academic excellence in engineering and technology. CIT is a Government Aided Autonomous Institution affiliated to Anna University, Chennai. CIT offers under graduate, post graduate and PhD programs with a global standard curriculum promoting the students to compete internationally. The institute has celebrated its Golden Jubilee in the year 2006 and all the courses are accredited by NBA. The institute has collaborated with leading frontier universities and industries in India and abroad for the promotion of innovative engineering ideas. CIT has laurel foliage on the head as an emblem of victory. Recently, CIT has been awarded with the "Bizz-2012" the world business leader award and "ABB News National B-School award" for outstanding Engineering Institution in South India.

## ABOUT DEPARTMENT OF EEE

The Department of Electrical and Electronics Engineering is one of the earliest departments in CIT which offers both under graduate, post graduate and Ph. D programmes. The department has a team of highly experienced faculty members with rich academic and industrial experience in various frontier engineering and technology areas. The faculty members and students of the department are dedicated to work in the current needs of the industry and have the ability to improve their expertise and incorporating the new technology on developing high performance, low cost, sustainable solutions for social and national relevant problems.

## ABOUT TECHLABS

Techlabs is a knowledge-based technology company in the realms of the engineering and provides end to end engineering software solution to meet the requirements of the industry and educational institutions. Techlabs delivers winning business outcomes through its deep industry experience. Today Techlabs stands as a multi-faceted corporate house with a country-wide network of offices, and professionals striving to achieve growth through highest levels of customer-satisfaction. Techlabs has tie up with various foreign principle companies that enable to enrich the standard of education and industries across the nation. Techlabs is the authorized dealer for Power SIM software in India.

## PREAMBLE

Computer modeling and simulation is creation of software based analysis of a system for the purpose of studying its behavior. Simulation is a prediction of what might happen in real time. Simulation is the method when the system has significant amount of uncertainty or randomness. It also differs from analytical modeling and is easier to conceptualize the link between the model and the real system. Simulation provides user friendly interface, multi-level modeling capability, accurate modeling and robust switching operations. PSIM is a simulation tool dedicatedly designed for power electronics, motor control and dynamic system simulation. PSIM include circuit level and system level simulations and uses a strong algorithm to electrical circuits. PSIM possess several advantages like reduction of simulation time, easier convergence and reliable results.

This hands on training will provide a real time platform to simulate electrical circuits using PSIM for various applications like power electronics, power systems, motor control and renewable energy systems. Further this program is designed to provide industry oriented hands on training for all modules available in the latest version of PSIM.

## DISCUSSION TOPICS

- PSIM Schematic/SIM VIEW/PSIM Library
- Motor Drive/Digital Control Module
- Renewable Energy/Thermal Module
- Magcoupler/Magcoupler-RT Module
- Simcoder/Simcoupler Module
- General Hardware Target
- Hands on PSIM Exercises

## REGISTRATION FORM

TEQIP Phase II Sponsored  
Two Days Hands on Training

on

### POWER ELECTRONICS, POWER SYSTEM AND RENEWABLE ENERGY - DESIGN MODELING AND SIMULATION USING PSIM

9<sup>th</sup> and 10<sup>th</sup> August 2013

1. Name : \_\_\_\_\_

2. Organization : \_\_\_\_\_

3. Designation : \_\_\_\_\_

4. Professional Category (Please tick) :

Industry  Academic  Students

5. Communication Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Phone (O) \_\_\_\_\_ (R) \_\_\_\_\_

7. Mobile : \_\_\_\_\_

8. Email : \_\_\_\_\_

9. Mode of Payment

DD No. \_\_\_\_\_ Dated \_\_\_\_\_

Bank Name : \_\_\_\_\_

Amount : \_\_\_\_\_

Date : \_\_\_\_\_ Signature of the Applicant

### SPONSORING CERTIFICATE

This is to certify that Dr./Mr./Mrs. \_\_\_\_\_ of \_\_\_\_\_ department is being sponsored for attending the TEQIP Phase II Sponsored Two Days Hands on Training on Power Electronics, Power System and Renewable Energy - Design Modeling and Simulation Using PSIM organized by Department of EEE, Coimbatore Institute of Technology from 9<sup>th</sup> and 10<sup>th</sup> August 2013 if selected. The college is approved by AICTE.

Date: \_\_\_\_\_ Signature of Sponsoring Authority  
(With seal)