

## OBJECTIVE

Computer aided simulation is a primary part of science and engineering. Simulation software provides the accurate replicate of all physical effect that exists in the real world. It gives a way in which alternative design or plan can be evaluated without having to experiment with a real system. Before inventions of simulation tools and simulation models, it was very difficult to analyze and investigate the operation of complex electrical systems. The gradual development of digital computer enhances the accuracy and utilities of simulation software's in the area of space, biomedical, electrical, electronics, computer science, mechanical engineering and technology. Currently simulation tools are equipped with realistic portrayal of actual conditions of a system in a real time. This makes simulation results capable of giving a highly reliable forecast. One of such computer aided software is PSIM (Power SIM). PSIM is simulation software specifically designed for power electronics and motor drives. With fast simulation and friendly user interface, PSIM provides a powerful simulation environment for power electronics and motor drives but can be used to simulate any electronic circuit. It has several modules for specific circuit simulation and design. Inexpensive, Easy to realize complex model and better speedy optimization are some added feature of PSIM.

This workshop will serves to be the platform for the academicians/researchers/ industrial persons who were working in the areas of Power Electronics and its applications for pursuing their research works in a resourceful manner.

## COURSE CONTENTS

- Introduction to PSIM
- Overview of power and control circuits components
- Circuit Analysis Type
  - Time-domain simulation
  - Frequency domain simulation: Ac Sweep
  - Parameter sweep simulation
- Simulation results analysis in SIMVIEW
- Graphical User Interface
- Model creation using Nonlinear Elements
- Applications:
  - Design of Power Electronics Circuits
    - Controlled and uncontrolled rectifiers/inverters
  - Design of Electric Drives
    - AC/DC Dives

## FACULTY

Sessions will be handled by the experienced faculties from various reputed institutions and also from KEC.

## ELIGIBILITY CRITERIA

Academicians, Part time and Full time Research Scholars, Industry Persons, Undergraduate and Postgraduate students.

## BOARDING AND LODGING

Accommodation and boarding arrangements will be provided in the college campus on chargeable basis.

## REGISTRATION DETAILS (Including Tax)

Category	Registration fee
UG/PG Students	Rs.600.00
Faculty/Scholars/Industrial Person/Others	Rs.700.00

The Demand Draft for the registration fee must be drawn in favour of “IIP Cell Grant in aid A/c”, payable at Perundurai or Erode.

## HOW TO APPLY

The applicants should send their applications in the specified format through their Principals/Sponsoring authorities to reach us on or before 06.09.2016

## SCHEDULED DATES

Last Date for Receipt of Applications	06.09.2016
Date of intimation regarding selection	07.09.2016
Confirmation by Participants	08.09.2016

For Further details,

Visit our official website

<http://www.kongu.ac.in>

## KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI, ERODE – 638 052

TAMILNADU

## One day National level Hands On Training on PSIM for Electrical Application

9<sup>th</sup> September 2016

## APPLICATION FORM

Name :  
Designation :  
Organization :  
Gender :  
Age :  
Educational Qualification :  
Address for :  
Communication

Mobile Number :  
E-mail ID :  
Research Area :  
Experience :  
Teaching :  
Others (Specify) :

## DD Details

DD. No. :  
Amount :  
Date :

Bank Name

Need Accommodation: YES / NO

Signature :

## DECLARATION

The above information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the course. If selected, I shall attend the programme for the entire duration. I also undertake the responsibility to inform the Coordinator in case I am unable to attend the course.

Place:

Date:

Signature of the Applicant

## SPONSORSHIP CERTIFICATE

Mr/Ms/Dr \_\_\_\_\_ is  
\_\_\_\_\_ is  
an employee/Student of our Institute / Organization and is hereby sponsored. She/he will be permitted to attend the programme in full, if selected.

Place: Signature of the Sponsoring Authority

Date: Office Seal

Application form completed in all respects to be sent to:

**Mr.V.Surendar**

**Co-ordinator**

One days National level Hands on  
**Training on PSIM for Electrical  
Application**  
Department of EEE,  
Kongu Engineering College  
Perundurai, Erode-638 052, Tamil Nadu.  
Email id: surendar136@kongu.ac.in,  
karthick@kongu.ac.in,  
vgsee@kongu.ac.in,  
**Contact Numbers:** 9952264648,  
9976466438, 9790683525,

## ABOUT THE COLLEGE

Kongu Engineering College was established in the year 1984. Approved by AICTE, New Delhi and affiliated to Anna University, Chennai, the Institution has completed 32 years of dedicated and excellent service in the field of technical education. It offers 14 UG programmes, 19 PG programmes and 16 Research programmes in Engineering, Applied Sciences and Management imparting high quality value-added education in India. The college has got NBA accreditation for UG programmes, Best Engineering College award, Best Principal award twice. The institution is ranked high among the Engineering Institutions in India by various surveys conducted by reputed magazines/journals/organization. In the survey - first of its kind - conducted by MHRD in the name NIRF (National Institution Ranking Framework), the Institution is placed in the first rank at Tamilnadu level and third rank at National Level among all self financing colleges. In the same survey, the Institution has bagged 46th rank among all Engineering institutions in India including premier institution like IITs, NITs, etc., The institution has established a Technology Business Incubator (TBI) supported by Department of Science and Technology, Government of India in its campus. TBI@KEC has won the National Award, for the Best TBI in India, presented by the President of India on Technology Day in New Delhi on 11 May, 2013.

## ABOUT THE DEPARTMENT

The Electrical and Electronics Engineering department was started in the year of 1994. It occupies a prominent place in the chronicles of Kongu academic history. The specialization of the faculties occupies a wide area in the field of electrical and electronics. The department offers four year UG programme in EEE and two year PG programmes in Power Electronics & Drives and Applied Electronics. The department also carrying out so many consultancy activities like energy auditing to various organizations and industries. EEE Department of Kongu Engineering College was awarded as the 'Best Industry Linked Technical Institute' by AICTE-CII Survey, New Delhi.

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**Co-ordinators**

Mr.V.Gowrishankar

Mr.P.Karthikeyan

Mr.V.Surendar

Assistant Professor

### School of Electrical Sciences

Department of Electrical and Electronics Engg.

and

Industry Institute Partnership Cell

**Kongu Engineering College**

Perundurai – 638 052, Erode, Tamil Nadu.

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