

# Two-Days Workshop on Power System Analysis Using MiPower™ and Embedded System design Using Advanced Microcontroller

## REGISTRATION FORM

Full Name :  
Sex :  
Qualification :  
Designation :  
Department :  
Age :  
Mailing Address :  
E-mail ID :  
Mobile :

**Date:** \_\_\_\_\_ **Signature of Participant**

**Place:** \_\_\_\_\_  
The applicant is hereby sponsored and will be permitted  
to attend this workshop.

**Signature and stamp of the Sponsoring  
Authority**

## COURSE FEE & REGISTRATION

FREE of Cost.

## PROGRAM SCHEDULE

Duration : January 29-30, 2018

Timings : 9.00 a.m. - 04.30 p.m.

## ORGANIZING COMMITTEE

### **CHIEF PATRON**

Mr.V.Narayanasamy  
Chairman,  
Sri Ranganthar Group of Institutions

### **PATRON**

Dr.B.Sanjay Gnadhi  
Principal,  
Sri Ranganathar Institute of Engineering & Technology

### **CONVENOR**

Dr. J.Maalmarugan  
Professor & Head  
Department of Electrical and Electronics Engineering,  
Sri Ranganathar Institute of Engineering & Technology

### **RESOURCE PERSON**

Mr.K.Kirubananthan  
Professor & Head, Dept. of EEE  
Surya Group of Institutions  
School of Engineering & Technology, Vikravandi.

### **COORDINATORS**

Mr. P.Meenakshi Sundaram AP/EEE  
Mobile: 98433 99115

Mr. D.Palanivel AP/EEE  
Mobile: 97903 33263

Mr.D.Karthik AP/EEE  
Mobile: 98653 38621

Mrs. M.Malathi, AP/EEE  
Mobile: 97888 22746

Mr.A.Syed Ibrahim AP/EEE  
Mobile: 97503 79530

Mr.Alex George AP/EEE  
Mobile: 98432 16128

Ms.A.Suganya AP/EEE  
Mobile: 90474 97325

Mrs.M.Shanthi AP/EEE  
Mobile: 89035 05315

# Two-Days Workshop on Power System Analysis Using MiPower™ and Embedded System design Using Advanced Microcontroller

**29.01.2018 & 30.01.2018**



Organised by

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**SRI RANGANATHAR**  
**INSTITUTE OF ENGINEERING & TECHNOLOGY**

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

(An ISO 9001:2008 Certified Institution)

Athipalayam, Coimbatore - 641 110, Ph:0422 2697792, www.sriet.ac.in

## ABOUT THE COLLEGE

Sri Ranganathar Institute of Engineering and Technology (SRIET) is Estd in 2011, was incepted for the upliftment of the rural youths as the progress of any nation depends upon the education of its youth. With organized activity and maintained enthusiasm, a loyal and efficient work is being done for the great cause from world-class engineering and technological education.

SRIET offers an inspiring ambience that fosters teaching - learning and research with knowledge and integrity realising the fact that integrity without knowledge is weak and useless whereas knowledge without integrity is dangerous and dreadful. This enables the students to have variety of stimulating environment towards intellectual development, from thinking and personal growth offered by SRIET.

The institute offers challenging opportunities for the students to make learning dynamic and equip them with skills, insights, attitudes and practical experience that are vital to take up responsibilities in the modern world.

## ABOUT THE DEPARTMENT

The department of Electrical and Electronics Engineering in Sri Ranganathar Institute of Engineering and Technology is Estd in 2011 imparting quality education and technical advancements to cater the electrical engineering needs in the public and private sectors. We offer innovative and experimental teaching methods to make the learning process enjoyable and enlightening.

The electrical engineers relying on yesterday's energy ideas have no chance of survival in the renewable and configurable energy environment where the speed of distribution and utilization is maximum.

The phase of the next generation energy resources changes will be in multiple dimensions and the micro charges need an integrated electrical and electronics engineering environment with other engineering disciplines. A continual development is achieved in training our students to meet the challenges of energy crisis in future.

## ABOUT THE WORKSHOP

The objective of the workshop is to impart knowledge to our UG students. Workshop will guide the participants to systematically approach the power system studies for commercial power system using IEEE buses for III and IV year. And Basics of Microcontroller and Embedded system hands-on training for II EEE students.

The workshop aims to update the knowledge of the participants in the following areas

- Computer-aided Power System Simulation & Case Studies
- Power Flow Analysis
- Short Circuit Case Studies
- Optimal Load Flow Techniques
- Transient Stability
- **Hands-on** Training on **MiPower™** on various Real Time Cases
- Circuit simulation using Proteus
- Simple project using Arduino
- Interfacing LCD & various sensors with Arduino

## WORKSHOP METHODOLOGY

The workshop methodology envisaged illustrates the concepts involved in the subject through practical considerations of actual real-life problems.

The following are the phases of workshop:

Phase 1: Explanation of Power System concepts by experts.

Phase 2: Computer-aided case studies. The trainee shall apply the skill learnt to work out the solution with the competent guidance of the trainers.

## OBJECTIVES OF THE PROGRAMME

The current scenario in the power sector has been undergoing continual development in generation, transmission and utilization. With the existing voluminous size of network, together with the rapid growth in supply and demand, the conventional approach has proved ineffective and there exists need for advanced computational and planning methodologies.

The prime objective of this workshop is to enhance the knowledge of the participants in the Power System Analysis through modern simulation techniques. It is an opportunity and platform for the academicians, researchers and committed engineers to actively learn solve problem and interact with the experts dealing with recent advances in power systems.