

### Registration Details:

Registration Fee:

**IEEE MEMBERS: Rs 100**

**NON IEEE MEMBERS: Rs 200**

Register online at

<https://forms.gle/z5GBfvKvHdkkSeWG9>

Pay the Registration Fee by online transfer.

### Account Details:

Account Name : **IEEE Madras Section**

Section Bank : **Bank of India**

Account Number : **800210100014174**

IFSC : **BKID0008002**

### CONTACT PERSONS:

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Secretary

IEEE Madras Section

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## **IEEE MADRAS SECTION**

### **Faculty Development Programme on**

## **Advanced Reactive Power Management of Power Networks**

(On-line)

### Date

**05<sup>th</sup> to 08<sup>th</sup> JULY 2021**

**Time : 2 PM to 5 PM**

### Coordinators:

**Dr.D.Devaraj**

Secretary,

**IEEE Madras Section &  
Chair- Educational Activities**

**Dr. S.Durairaj**

**(BOYSCAST FELLOW)**

**Principal**

Dhanalakshmi Srinivasan Engineering College (Autonomous)  
Perambalur

**Dr. K.Anbarasan**

**Dean (Academics)**

Dhanalakshmi Srinivasan Engineering College (Autonomous)  
Perambalur

### Hosted by

**IEEE STUDENTS BRANCH (STB65611)**

**DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE**

**(AUTONOMOUS)**

**PERAMBALUR**

## About IEEE

The Institute of Electrical and Electronics Engineering Inc. (IEEE), a non profit organization is the world's leading professional association for the advancement of technology. IEEE offers a wide range of learning, career enhancement, and employment opportunities in the engineering science and other technology areas. The goal of these programs is to ensure the growth of skills and knowledge among professionals and to foster individual commitment to continue education among the IEEE members, the engineering and scientific community and the general public. IEEE student branches provide an opportunity for student members to begin networking in their areas of interest and future profession. There are over 2000 student branches over 100 countries globally.

## About IEEE Madras Section

IEEE Madras Section came into existence in 1973 and has crossed its silver jubilee year. IEEE Madras Section has received the Larger Section Award for the years 2010 & 2017. The IEEE Madras Section conducts technical lectures, symposiums and workshops by eminent personalities from several fields to improve the teaching learning process in the Engineering Colleges and Universities. The section organizes faculty development programs on latest topics.

## About the Institution

Dhanalakshmi Srinivasan Engineering College (An Autonomous Institution) has 20 years of enchanting Education, as established in the year of 2001 at Perambalur, Tamil Nadu. Our Institution is accredited with 'A' Grade by NAAC and the departments of BME, ECE and EEE are accredited by NBA. All Eligible UG Programmes are permanently affiliated by Anna University, Chennai. Our Institution offer 17 UG Programme and 6 PG Programme. UGC and Anna University, Chennai has conferred Autonomous status for a period of ten years with effect from 2020-2021 to 2029-2030. Our Institution is AICTE funded Skill and Personality Development Centre. Highly Competent faculty with Industry and Academic experience caters the needs of students on curriculum which helps them to meet the global challenges and the needs of employers. Project based learning is incorporated to equip with Research skills among the students. Various activities are performed by our institution in a student centric basis such as Continuous assessment, Assignment strategies, Student initiative Material, Virtual Lab, Project Monitoring Committee, etc. We organize Student Enrichment Programme through professional societies such as IEEE, ISTE, BMSI and so on.

## About the Programme:

The main purpose of this FDP is to comprehend the participants on the concept of reactive power management in power systems. The different methodologies of Reactive power management in AC power systems will be discussed. This FDP will cover the significance of reactive power management in both transmission and distribution systems with reactive power control equipment. The following are the topics to be covered in this FDP:

## Indicative Course Content

- Fundamentals of Reactive Power management in Electric power systems.
- Significance of Reactive power in Power systems.
- Reactive Power Management in Transmission Networks.
- Automatic Power Factor Controllers.
- Reactive Power control Equipment.
- Reactive power optimization in distribution systems.
- Energy management in HVAC systems.
- Reactive Power Optimization using Evolutionary algorithms.
- Reactive Power Compensation using FACTS devices
- Reactive power control in wind power plants.

## RESOURCE PERSONS:

1. **Dr.D.Devaraj**  
Professor,  
Department of Electrical and Electronics Engineering,  
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Srivilliputhur.
2. **Dr.S.Durairaj**  
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Perambalur.
3. **Prof.P.S.Kannan**  
Professor Emeritus,  
Thiyagarajar College of Engineering, Madurai.
4. **Er.Panneer selvam**  
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5. **Dr.Gnanadoss**  
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6. **Dr.Ravikumar Pandi**  
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Amrita Vishwa Vidyapeetam, Amritapuri.
7. **Dr.M.Sudhakaran**  
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Pondicherry Engineering College, Pondicherry.
8. **Dr.S.Dharmalingam**  
General Manager (Retired)  
Bharat Heavy Electrical limited, Tiruchirappalli.
9. **Dr.A.Karthikeyan**  
Assistant Professor,  
National Institute of Technology, Surathkal.

## Participants:

Faculty / Research Scholars from technical Universities / Engineering Colleges in India can participate

## Course fee:

**IEEE MEMBERS: Rs 100**

**NON IEEE MEMBERS: Rs 200**

## Dates of remember:

Last date of Registration: **03<sup>rd</sup> July 2021**

Date of Intimation : **04<sup>th</sup> July 2021**