

ABOUT THE INSTITUTION

Established in the year 1997 by the Rajalakshmi Educational trust, headed by Mr. S. Meganathan, a Mechanical Engineer by Profession and a successful Industrialist, ably assisted by Dr. (Mrs.) Thangam Meganathan, an Educationist and an expert Career guidance advisor, Rajalakshmi Engineering College is an autonomous Institution affiliated to Anna University. The Institution is located at Thandalam on the National Highway (NH-4) between Chennai and Bangalore. The College offers 12 U.G., 9 P.G. and 9 Doctoral Programmes. The college is approved by AICTE, New Delhi and accredited by NACC with 'A' grade. All the eligible programmes are accredited by NBA. Over the years, the college has developed expertise in a number of niche areas such as MEMS, Machine Vision and CFD. The college had carried out several sponsored projects and provided solutions to leading national research organizations and industries.

ABOUT THE DEPARTMENT

The department of Electrical and Electronics Engineering was established in the year 1999-2000. Presently, the department offers B.E. (Electrical and Electronics Engineering) with an intake of 180 students, M.E. (Power Electronics and Drives) and M.E. (Embedded systems Technology) with an intake of 18 students. It has also been recognized as a research centre by Anna University, Chennai, leading to Ph.D. and M.S. by research degrees. A number of candidates are undergoing Ph.D. Programme in the area of Power Electronics and Drives, Power Systems and Renewable Energy Sources. The department has also been reaccredited by the National Board of Accreditation, New Delhi (NBA). The department has full-fledged faculty members who are dedicated and well-experienced in different fields of specializations. A large number of research papers have been published by the faculty members in reputed journals in the area of power electronics and renewable energy systems. The department has well equipped laboratories on Electrical machines, Power Electronics, Control Systems, Power System Simulation, Embedded Systems, Measurements and

Instrumentation, which provides facilities for carrying out UG, PG and Ph.D. Projects.

NEED FOR THE COURSE

The renewable energy is the need of the hour to meet the growing industrial and domestic energy demands. Embedded generation is the production of electrical power from stations that are directly connected to a distribution network. This network is configured to carry the power from the transmission network and embedded generators to consumer ends. Hence it has become necessary for the power engineers to acquire a thorough knowledge of how the energy flow is controlled to meet the end user requirements. Hence the training programme has been designed to provide comprehensive information and hands on exposure on photovoltaic and wind energy generation and their control through embedded systems.

CONTENTS OF THE PROGRAM

- Renewable Power Generation: Solar and Wind.
- Control of Power Converters.
- Microgrids- an overview.
- Concept of Embedded Generation.
- Market based Embedded Generation.
- Power Quality Measurements.
- Control approaches by using MATLAB dSPACE.
- Hands on training on Graphical user interface based Pulse Width Modulation generation schemes.
- Hands on training on controller implementation using C2000 and other digital controllers.

TARGET AUDIENCE

The Course is designed for the Teaching Faculties and Research Scholars of Electrical & Electronics, Electronics & Communication and Control & Instrumentation Engineering.

RENEWABLE POWER GENERATION AND RECENT EMBEDDED CONTROLLERS

December 14 & 15, 2017

REGISTRATION FORM

1. Name :
2. Designation :
3. Institution :
4. Address for Communication:

5. Phone No. :
6. E-mail id :
7. DD No. & Bank :
8. Amount in Rs. :

Place:

Date:

Signature of Applicant

Sponsorship by the Head of the Institution

This is to certify that Dr./Mr./Ms _____ of

_____ is sponsored to participate in the Faculty Development Programme on “**RENEWABLE POWER GENERATION AND RECENT EMBEDDED CONTROLLERS**” on 14.12.2017 & 15.12.2017 at Rajalakshmi Engineering College, Thandalam, Chennai – 602105.

Date:

Signature
(Designation and Seal)

ORGANIZING COMMITTEE

CHIEF PATRONS

Mr. S. Meganathan, Chairman.
Dr. (Mrs.) Thangam Meganathan, Chairperson.

PATRON

Dr. S. N. Murugesan, Principal.

CONVENER

Dr. M. G. Umamaheswari,
Professor and Head of the Department.

CO-CONVENER

Dr. K. Premkumar, Associate Professor, EEE.

COORDINATORS

Dr. P. Sivakumar, Associate Professor.
Mrs. R. Kavitha, Assistant Professor.

COMMUNICATION ADDRESS

Dr. P. Sivakumar,
Associate Professor,
Department of EEE,
Rajalakshmi Engineering College,
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E-mail: sivakumar.p@rajalakshmi.edu.in
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FOR MORE DETAILS CONTACT

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Mrs. R. Kavitha, +91 9003148110
Website: www.rajalakshmi.com

REGISTRATION FEE: Rs. 1000/- per participant

The registration fee includes cost towards course material and refreshment. Accommodation can be made available in the campus on request, on payment basis.

IMPORTANT DATE

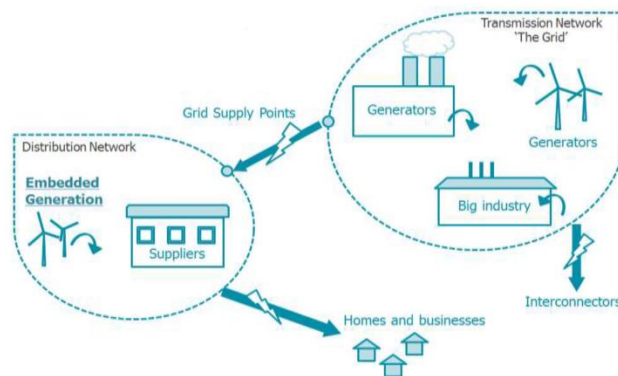
Registration on or before: 13.12.2017

HOW TO APPLY

Registration for the Faculty Development Programme should be made by sending the duly signed application form along with Demand Draft drawn in favor of Rajalakshmi Engineering College payable at Chennai through post or email to the Coordinator on or before December 13, 2017. Participants will be selected on first come and first served basis.

RESOURCE PERSONS

- **Dr. M. SUBBIAH**, Emeritus Professor, EEE, REC, Chennai.
- **Dr. G. UMA**, Professor and Head, EEE, CEG, Anna University, Chennai.
- **Dr. M. PRABHAKAR**, Associate Professor, VIT, Chennai.
- **Dr. ARANGARAJAN VINAYAGAM**, Former Faculty of Electrical Engineering, Deakin University, Australia.
- **Dr. M. G. UMAMAHESWARI**, Professor and Head, EEE, REC, Chennai.
- **Dr. P. SIVAKUMAR**, Associate Professor, EEE, REC, Chennai.
- **Dr. K. PREMKUMAR**, Associate Professor, EEE, REC, Chennai.



RAJALAKSHMI ENGINEERING COLLEGE
(An Autonomous institution)



Rajalakshmi™
Institutions



A two day Faculty Development Programme on
**RENEWABLE POWER GENERATION
AND RECENT EMBEDDED
CONTROLLERS**

December 14 & 15, 2017



Organized by

**DEPARTMENT OF
ELECTRICAL AND ELECTRONICS
ENGINEERING
RAJALAKSHMI ENGINEERING COLLEGE**
(An Autonomous institution)
Thandalam, Chennai 602105.



in association with
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