

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 etc. and 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 under going 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. The department has well equipped laboratories on Electrical machines, Power Electronics, Control Systems, Power

System Simulation, Embedded Systems, Measurements and Instrumentation. The mission of the department is to produce highly competent Electrical and Electronic Engineers with a sound knowledge in all the fields concerning the discipline and also allied areas of societal significance.

NEED FOR THE COURSE

Microcontrollers have become not only much more versatile in the recent times by the development of Arduino interfacing boards but have also become an integral part of many modern equipment and systems. These boards have all the built-in features such as measurement using variety of sensors and handling communication equipment, PWM ports for power electronic circuits and A/D and D/A converters. Also MATLAB programming and simulation using SIMULINK software tools with embedded coders could be directly applied for a number of sophisticated electronic control applications. This workshop will provide information on the detailed configuration of many of these control features, use of MATLAB programming methods and also hands on training to handle the Arduino development boards and the associated components. The expertise gained in this workshop will enable the students and research scholars to employ these advanced techniques in their projects.

CONTENTS OF THE PROGRAM

- Sensor interfacing using MATLAB/Simulink.
- PWM Generation.
- Controllers for various power electronics circuits-converters, choppers and inverters.
- Communication using GSM module, SPI and I2C.
- IOT based motor control.
- Servo motor control.
- Solid state excitation control.

MATLAB/SIMULINK WITH REAL TIME ARDUINO INTERFACING

September 19, 20 2017

REGISTRATION FORM

1. Name :
2. Qualification (UG/PG) :
3. Branch :
4. Year :
5. Institution :
6. Address for Communication:

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

Place:

Date:

Signature of the Applicant

Date: Signature of Head of the department
(Name with seal)

ORGANIZING COMMITTEE

Chief Patron

Mr.S. Meganathan,
Chairman

Dr. (Mrs.). Thangam Meganathan,
Chairperson

Patron

Dr.S.N. Murugesan, Principal

Convener

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

Coordinators

Dr. P. Sivakumar, Associate Professor
Dr. K. Premkumar, Associate Professor
Mr. S. B. Ron Carter, Assistant Professor

Communication Address

Dr. P. Sivakumar,
Associate Professor,
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Mr. S. B. Ron Carter, +91 9840663260

TARGET AUDIENCE

The course is designed for the UG and PG students of the Departments of Electrical & Electronics, Electronics & Instrumentation and Control & Instrumentation Engineering

IMPORTANT DATE

Registration on or before: 15.9.2017

REGISTRATION FEE: Rs.500/- per participant

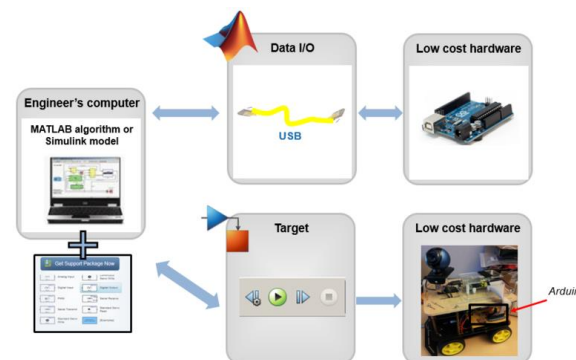
The registration fee includes cost towards course material and refreshment.

Accommodation can be made available in the campus on request, on payment basis.

HOW TO APPLY

Registration for the workshop should be made by sending the duly signed application form along with Demand Draft drawn in favor of “**THE PRINCIPAL, RAJALAKSHMI ENGINEERING COLLEGE**” payable at Chennai through post to the Co-ordinator on or before September 15, 2017. Participants will be selected on first come and first served basis.

Website: www.rajalakshmi.com



RAJALAKSHMI ENGINEERING COLLEGE

Thandalam, Chennai 602105

(An Autonomous institution
Affiliated to Anna University)



A Two-day Workshop on

MATLAB/SIMULINK WITH REAL TIME ARDUINO INTERFACING

September 19 & 20, 2017



Organized by

Department of

Electrical and Electronics Engineering

RAJALAKSHMI ENGINEERING COLLEGE

Thandalam, Chennai 602105

in association with

IEEE MADRAS SECTION, CHENNAI