

ABOUT THE INSTITUTION

Karunya Institute of Technology and Sciences (KITS) was established in the year 1986 by our founders Dr. D. G. S. Dhinakaran and Dr. Paul Dhinakaran. Making rapid progress ever since, this Institute has now grown into a Deemed University winning recognitions and awards on its way; Best Engineering College of Tamil Nadu (1996), First-ever Autonomous self-financing college (2000), Deemed University (2004). The Institution has excellent academic, research and extracurricular facilities, well-qualified and dedicated faculty and over 8500 students. UG, PG and PhD programs are offered in the fields of Engineering, Technology and Management

ABOUT THE ORGANIZING PROGRAMME

The Programme of Electrical and Electronics Engineering, was established in the year 1994. It is manned by very able and eminent faculty. The programme offers one undergraduate course (B.Tech) in Electrical & Electronics Engineering and one post graduate course (M. Tech) in Renewable Energy Technologies. The programme has well equipped and highly commendable facilities to train students in all aspects of Power Engineering and make them industry ready. It has also signed MoA with industries like SIEMENS, SALZER to provide Industrial Certification Training to the students here on campus. The programme is facilitated with modern laboratories supported with latest hardware utilities like harmonic analysers, multi-lever inverters, SRM drive, BLDC drive, DSP, dSPACE 1103, Microcontroller, DSO, Solar photovoltaic training and research kit, Wind tunnel etc. and software like PSCAD, PSIM, MATLAB, ETAP etc.

ABOUT THE TECHNICAL PARTNER

Stairway Engineering Pvt. Ltd. is an organization dedicated for embedded systems development, training and consultancy. With a passion, the organization was established in August 2011 by competitive professional having tremendous experience in industry and teaching fields. Stairway works with a vision to be a constant

facilitator in the scientific and technical education of students and bridges the gap between Industry and Academia by providing them basic and advanced level training classes, workshops in both indoor and outdoor locations, providing requisite resources through wide variety of kits, development boards and accessories.

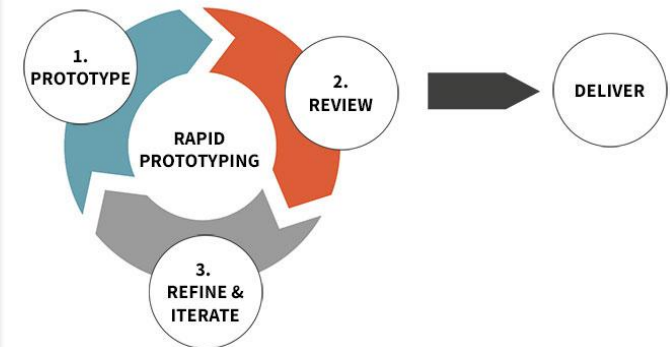
THEME OF THE WORKSHOP

With a focus to prepare the industry ready engineers, this workshop proposes a modern-day system design engineering approach which would simplify design process, improves quality, shortens development time, lowers engineering cost, and reduces rework. This program emphasizes the significance of Model Based Design (MBD) -a rapid prototyping approach and its potential in simplifying design process, improves quality, shortens development time, lowers engineering cost, and reduces rework. Industry has greatly adopted MBD for the development of complex engineering systems like Avionics & Automotive, Digital Power Design, Process Control, and Automation. MBD and control systems are hot topics of research worldwide and have high demand in the core engineering industries. Developing embedded system for electrical applications using MATLAB and Arduino platforms is much easier than C/C++ and other compiled languages because MATLAB is a high level interpreted language / block diagram based approach. MATLAB includes thousands of built-in math, engineering, and plotting functions / blocks that can be used to quickly analyze and visualize data collected from Arduino. This workshop is designed to provide the participants a hands-on experience with MBD approach for building automated systems for Electrical Applications.

KEY HIGHLIGHTS

- *Dealing with the current Industrial approach for system development*
- *Team of 3 would receive an Arduino kit absolutely free*
- *Get industrial certification*

One Day National Level Hands on Workshop on Rapid Prototyping Approach for Automation of Electrical Applications (RP2AEA '18)



Organized by

Electrical and Electronics Engineering



&



Student Branch Chapter
[SBC31061A]

In Association with



on

Feb 17th 2018

Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES
(Deemed-to-be-University under section 3 of the UGC Act, 1956)
Karunya Nagar, Coimbatore - 641114, Tamil Nadu, India

CONTENT

The workshop covers the following topics

- Embedded Systems and Electrical Applications
Arduino Hardware and IDE
- Conventional Programming Methods
 - ✓ Interfacing Simple peripherals (GPIO) using
LED Blinking or Toggle, Push Buttons
- Introduction to Rapid Prototyping and its
advantages over conventional programming
- Programming Arduino using MATLAB/Simulink
- RP approach for Interfacing ADC
- PIL Concepts for Code Verification
- Controlling an electrical application with Arduino

ORGANIZING COMMITTEE

<i>Chief Patron</i>	Dr. Paul Dhinakaran , Chancellor
<i>Patrons</i>	Dr. P. Mannar Jawahar , VC Dr. Ridling Margaret Waller , Pro VC
<i>President</i>	Dr. R. Elijah Blessing , Registrar Dr. G. Prince Arulraj , Dean (E&T)
<i>Chairman</i>	Dr. A. Immanuel Selvakumar , HoD-ES
<i>Organizing</i>	Dr. J. Jayakumar , UG - PC / EEE
<i>Secretary</i>	
<i>Convenors</i>	Dr. S. Paul Sathiyam , Asst. Prof / EEE Mr. C. Benin Pratap , Asst. Prof / EEE Dr. F. T. Josh , Asst. Prof / EEE Mr. Benuel Sathishraj , Asst. Prof / EEE Mrs. Jency Joseph , Asst. Prof / EEE Mr. Manikandan , Asst. Prof / EEE Mr. Satheesh Kumar , Asst. Prof / EEE

IMPORTANT DATES

Last date for registration	: 10.02.2018
Workshop	: 17.02.2018

HOW TO APPLY

The applicants are requested to send the filled in registration forms along with Demand Draft to the Convenors on or before the last date. Participants form circuits branches can apply.

REGISTRATION

Classification	Fee
UG / PG Students (S) Research Scholars (RS) Faculty (F)	Rs 950/- per head (includes 18% GST)

The fee should be paid only through Demand Draft drawn in favour of “**The Registrar, Karunya Institute of Technology and Sciences**”, Payable at **Coimbatore** taken from any Nationalized Bank.

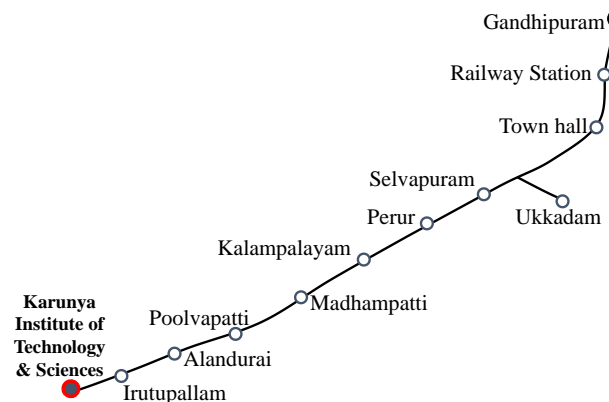
Registration fee includes Industry certification, training materials. **Register as three member team to avail a free Arduino Kit.**

Only limited seats are available and registration is based on first come first serve basis

ADDRESS FOR CORRESPONDANCE

The Convenors - (RP2AEA-18)
Electrical & Electronics Engineering
Department of Electrical Sciences
Karunya Institute of Technology and Sciences
Karunya Nagar, Coimbatore – 641 114.
Tamil Nadu India.
Mobile: +91-94437 11323, 94435 28475
Email : sathiyam@karunya.edu
benin@karunya.edu

HOW TO REACH KARUNYA



RP2AEA-18

REGISTRATION FORM

#1 Name			
Year of Study & Department			
Contact No			
email ID			
Category (pl tk)	S	RS	F
#2 Name			
Year of Study & Department			
Contact No			
email ID			
Category (pl tk)	S	RS	F
#3 Name			
Year of Study & Department			
Contact No			
email ID			
Category (pl tk)	S	RS	F

Institute: _____

City: _____

Payment Details

DD Number	Date	Name of the Bank and Total Amount

(DD should be drawn in favour of “The Registrar, Karunya Institute of Technology and Sciences” Payable at Coimbatore)

Signature of the Applicant with Date