

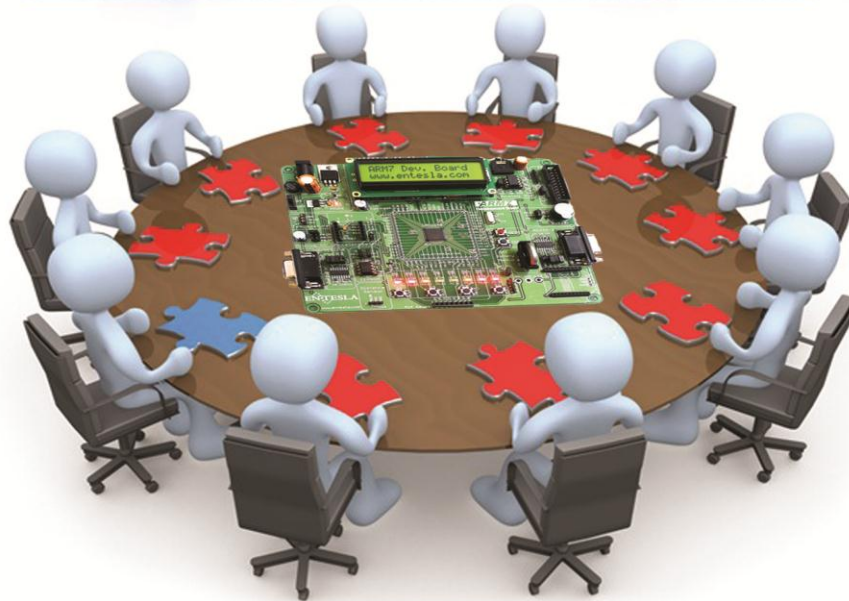


Faculty Development Programme with Hands on Experience

on

μ Vision KEIL IDE & ARM Microcontrollers

26th & 27th September 2014



Organised by:

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

jointly with

EMBEDDED SYSTEM SOLUTIONS Pvt Ltd.



Vidya Academy of Science & Technology

(A unit of Vidya International Charitable Trust)

Approved by AICTE, Affiliated to University of Calicut, An ISO 9001-2008 Certified Institution

Thalakkottukara P.O., Thrissur, Kerala – 680 501

Tel: +91-4885 287751 / 287752, Fax : +91-4885 288366

website : www.vidyaacademy.ac.in

Applications are invited from faculty members of AICTE approved Engineering colleges, industries and R&D organisations to participate in the “Faculty Development Programme with Hands-on Training on KEIL & ARM MICROCONTROLLERS” being organised by Department of ECE, VAST jointly with Embedded Systems Pvt. Ltd. in association with ISTE, IE(I), IETE and IEEE during September 26-27, 2014.

Vidya Academy of Science and Technology (VAST), is a new generation self-financing engineering college, administered by Vidya International Charitable Trust (VICT). The college is affiliated to University of Calicut, approved by AICTE and certified by ISO 9001:2008 certification.

The department of ECE was established in 2003. It offers a 4 years B.Tech in ECE and 2 years M.Tech in Embedded Systems programme. It has distinguished team of faculty and the department is equipped with high quality technology infrastructure.

About Embedded System Solutions Pvt. Ltd

Embedded Systems Solutions (ESS) is an Electro Systems Associates (ESA) group company. Since 1996, Embedded Systems Solutions has been a leading one stop provider of hardware and software solutions for the embedded realtime systems market.

ESS together with its associate companies, possesses in-depth expertise and vast experience with real-time embedded systems and development tools, has succeeded in bringing to fore an ecosystem and highly integrated hardware and software solutions, tools and products ranging from Development Suites, Middleware Solutions, In Circuit Debuggers and Emulators, Connectivity Solutions, Protocol Analyzers and Hardware Subsystems to holistically support design, development and debugging processes in Embedded Systems.

About the Faculty Development Programme

This program briefly expounds the booming expertise of Embedded systems. It will provide an ingenious platform for the faculty members and research scholars to understand the embedded architecture of KEIL and ARM. At the end of this programme, participants can create application design using KEIL & ARM to process, display and store real world data. The hands-on-training will enable the participants to apply the applications and train others.

Course Objectives

The participants will be able to:-

- ✓ Understand mVision KEIL IDE and ARM Microcontrollers as well as ARM Cortex Microcontrollers.
- ✓ The software knowledge on KEIL and ARM Tools.
- ✓ Design flow to develop your own applications with interfaces.
- ✓ Hands on training with ARM controller environment applications.

Course Content

DAY 1 (26-09-2014)

- Introduction of 8051 Microcontroller architecture and its designs
- Introduction of KEIL 8051 Tools and design flow.
- Introduction of Tiny RTOS in KEIL 8051 Tools
- **LAB 1** : Getting started with KEIL 8051 Software
- **LAB 2** : Start working with KEIL 8051 Software and develop the applications in both ASM, Embedded C programs.
- **LAB 3** : To develop the application like seven segments, ADC, Matrix keyboard, Dual DAC interfaces etc.
- Discussions and Queries..,

DAY 2 (27-09-2014)

- Introduction of ARM Microcontrollers & its hardware architectures.
- Introduction of KEIL MDK ARM & ARM DS5 Software and its design flow.
- Introduction of ARM Cortex Architectures.
- **LAB 4** : Getting started with KEIL MDK ARM Tools with ARM Microcontrollers.
- **LAB 5** : To develop the application in ARM controllers like CAN, Ethernet (TCP/IP), Touch screen concepts etc.
- Discussions and Queries.

Registration Gateway

All the participants have to pay the registration fee of **Rs. 500/-** by DD drawn in favour of **"Vidya Academy of Science & Technology"** payable at **Indian Overseas Bank, Thalakkottukara, Thrissur**. The DD should reach the convenor on or before **18th September 2014**. The participants must also send the scanned copy of the duly filled application form and DD to **eceassociation@vidyaacademy.ac.in**. If not selected the DD will be returned, selection will be done on first come first served basis.

Boarding & Lodging

Participants have to make their own arrangements for travel, boarding, lodging, etc. However, participants can make use of college buses in the normal service routes and accommodation in hostel can be arranged on request in advance, for a limited number.

IMPORTANT DATES

Last Date of Registration : **18th September 2014**
Intimation of Selection : **19th September 2014**
Date of Programme : **26th & 27th September 2014**

Patrons

Er. P.K. Asokan
Chairman, VICT

Er. G. Mohanachandran
Executive Director, VICT

Principal

Dr. Sudha Balagopalan

Convenor

Dr. S. Swapna Kumar
Professor & Head of ECE

Co-ordinators

Mrs. Jeeva K A
Associate Professor, ECE

Mrs. Divya Unni
Assistant Professor, ECE

Mr. Rakesh V S
Assistant Professor, ECE

Mr. Anil M
Assistant Professor, ECE

Mrs. Jemy Jose Kakkassery
Assistant Professor, ECE

Address for Correspondance

Sent the registration form and DD to

Dr. S. Swapna Kumar
Professor & Head,

Department of ECE, VAST,

Thalakkottukara P.O., Thrissur - 680501

Ph:09995493508

Mrs. Jeeva K.A. - 09446075260, Mr. Rakesh V. S - 09446313655

E-MAIL: eceassociation@vidyaacademy.ac.in



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REGISTRATION FORM

1. Name :
2. Designation:
3. Qualification:
4. Name of the Institute:
5. Address for Communication:
.....
.....
.....Pincode:
- Email:
- Mobile:.....
6. Professional Experience:
7. Accommodation needed: Yes/No
8. DD Number Date...../...../.....

The information furnished above is true to the best of my knowledge.

Date:

Place:

Signature of the Applicant

SPONSORSHIP

Mr./Ms./Dr. _____ is an employee/student of our institute. He / She will be permitted to attend the programme if selected.

Date:

Place:

Signature & Seal
of Head of Organization