



VIT University
Vellore-632 014, Tamil Nadu, India.
www.vit.ac.in



Two Day Workshop on
Embedded System Design using Arduino
(Your Embedded Project Essentials)
30 & 31 January 2015



Organized by

TIFAC - CORE in AUTOMOTIVE INFOTRONICS
(Sponsored by Department of Science and Technology, Govt. of India)

Coordinators

Dr. K. Ganesan, Director, TIFAC CORE & Senior Professor, SITE
Prof. A. Rammohan, TIFAC CORE

TIFAC-CORE IN AUTOMOTIVE INFOTRONICS @VIT

- State of the art advanced engineering centre for research, consultancy and manpower excellence in Automotive Infotronics is established at VIT University promoted by TIFAC (Technology Information Forecast and Assessment Council), under the Mission REACH program.
- Offers a full time M. Tech. program in Automotive Electronics to provide industry ready engineers.

Background

Arduino is a single-board microcontroller to make using electronics in multidisciplinary projects more accessible. The hardware consists of an open-source hardware board designed around an 8-bit Atmel AVR microcontroller, or a 32-bit Atmel ARM.

The software consists of a standard programming language compiler and a boot loader that executes on the microcontroller.

Topics Covered:

Theory

- Features of Arduino development board
- Arduino IDE
- Embedded C Programming concepts
- Arduino Programming in Embedded C
 - ✓ Digital and Analog interfacing
 - ✓ Serial port Programming
 - ✓ Interrupt Programming
 - ✓ ADC Programming
 - ✓ LCD interfacing
 - ✓ Relay interfacing
 - ✓ Stepper motor control and seven segment display
 - ✓ DC Motor control & PWM Programming
- Embedded circuit design using Arduino

Hands-on using kit

- ✓ Digital and Analog interfacing's
- ✓ Serial Communication Programming
- ✓ Interrupt Programming
- ✓ ADC Programming
- ✓ LCD interfacing
- ✓ Relay interfacing
- ✓ Stepper motor control (Demo)
- ✓ Seven segment display
- ✓ DC Motor control & PWM Programming



Targeted participants include:

- Research Scholars
- Students (Engineering First year can also register)
- Working Professionals

Registration fees:

Rs. 1500 per delegate from Institute (Student)

Rs. 2500 per delegate for faculty & Research scholars

Rs. 3000 per delegate for industry professionals

Registration charges include Hand-outs, Lunch & Tea.

Venue & Date:

Hall No.: 701, Technology Tower

7th Floor, VIT

30 & 31 January 2015 : 09.30 – 17.00 Hours

For Technical details contact:

Prof. A.Rammohan

TIFAC CORE

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Format for Registration confirmation

Embedded System Design using Arduino
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30 & 31 January 2015

Name: -----

Designation: -----

Organization: -----

Address: -----

Mobile:-----

E-mail: -----

DD Details: -----

Signature: -----

Payment through DD drawn in favor of “**TIFAC- CORE, VIT University**”, Payable at Vellore.

Note: - Telephone confirmation before registration is compulsory.

Registration form and DD courier to :

Secretary, TIFAC CORE
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