

**ALVA'S INSTITUTE OF ENGINEERING AND  
TECHNOLOGY**

**Dept. of Electronics and Communication  
Engineering**

*Certification Course  
On*

**"Introduction to Arduino"**

To,

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**Dept. of Electronics and Communication  
Engineering**

We cordially invite you to the  
Certification Course  
On

**"Introduction to Arduino"**

By  
Mr. Sahanraj  
Application Developer,  
Nuetios Technology, Bangalore

Venue: Internet Lab

Date: 16<sup>th</sup> to 20<sup>th</sup> February 2015

Mr. Santhosh S  
Staff Coordinators

Prof. Raghavendra Rao  
HOD

### **About the Institution**

Alva's Institute of Engineering & Technology (AIET) is a premier Engineering Institute of Alva's Education Foundation established in the year 2008.

AIET is recognized by All India Council for Technical Education (AICTE), New Delhi and affiliated to Visvesvaraya Technological University (VTU), Belgaum, approved by Govt. of Karnataka. Ranked as one of the best Technical Institute in Dakshina Kannada region. AIET has established Multi-Disciplinary Research Centers viz Center for Robotics, EMS, CAD Center, Linux Lab.

### **About the Department**

Department of Electronics & Communication was started in the year 2008-09. ECE branch is concerned with the design, development, manufacture and application of electronic devices, circuits and systems. It plays great emphasis on deep understanding of fundamental principles and state of the art knowledge about Electronic Devices and Circuits, Computer Architecture and Microprocessors, VLSI and Embedded

systems, Electromagnetic Field Theory, Analog and Digital Communication, Digital Signal Processing, Microwave and Broadband Communications.

### **Scope of the Course**

This practical course is designed to quickly take students from beginner to basic functional knowledge of the Arduino microcontroller. The Arduino is a versatile resource for physical projects for students in all disciplines. This course brings students over the beginner's threshold to a basic understanding of the use, terminology, and potential of the Arduino.

### **Course Content**

1. Introduction to Arduino
2. Navigating the Arduino integrated development environment (IDE).
3. Using built-in help in the IDE.
4. Downloading firmware to the Arduino  
Blinking the LED
5. Variables types
6. Control logic (if/else)
7. Iteration (for loops and while())

### **RESOURCE PERSON**

Mr. Sahanraj  
Application Developer,  
Nuetios Technology, Bangalore

### **PROGRAM SCHEDULE**

#### **16, February, 2015**

Inauguration:	09:00 am to 09:30 am
Session 1:	09:30 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 2:	02:00 pm to 05:00 pm

#### **17, February**

Session 3:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 3:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 4:	02:00 pm to 05:00 pm

#### **18, February**

Session 5:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 5:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 6:	02:00 pm to 05:00 pm

#### **19, February**

Session 7:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 7:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm

#### **20, February**

Session 9:	09:00 am to 11:00 am
Tea Break:	11:00 am to 11:20 am
Session 9:	11:20 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 10:	02:00 pm to 04:00 pm
Valedictory:	04:00 pm to 05:00 pm