

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

**Dept. of Electronics and Communication
Engineering**

*Certification Course
On*

"Embedded Systems"

To,

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**Dept. of Electronics and Communication
Engineering**

We cordially invite you to the
Certification Course
On

"Embedded Systems"

By

**Mr. Sudhakara H M
Assistant Professor
Dept of ECE, AIET.**

Venue: DSP Lab

Date: 08/03/2016 to 12/03/2016

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

8051 is by far one of the oldest microcontrollers which are still used today. Being one of the first microcontrollers, the architecture of 8051 is quite simple with very few basic features.

In this course, we'll study 8051 with embedded C programming. We're going to study about the 8051 microcontrollers with Keil 8051 IDE. Keil Microvision is a very old and very popular IDE used for microcontroller programming.

Course Content

1. Familiarization of 8051.
2. Interface I/O devices to 8051.
3. Assembly level Programs for interfacing.
4. DC Motor speed control, waveform generation using DAC, Temperature sensor interfacing, toggle switch and LED using to 8051 Kit.
5. Developing simple Projects using 8051 Kit.

RESOURCE PERSON

Mr. Sudhakara H M
Assistant Professor
Dept of ECE, AIET

PROGRAM SCHEDULE

8, March

Introduction:	09:30 am to 10:00 am
Session 1:	10:00 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 2:	02:00 pm to 05:00 pm

9, March

Session 3:	09:30 am to 11:00 am
Tea Break:	11:00 am to 11:30 am
Session 3:	11:30 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 4:	02:00 pm to 05:00 pm

10, March

Session 5:	09:30 am to 11:00 am
Tea Break:	11:00 am to 11:30 am
Session 5:	11:30 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 6:	02:00 pm to 05:00 pm

11 March

Session 7:	09:30 am to 11:00 am
Tea Break:	11:00 am to 11:30 am
Session 7:	11:30 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 8:	02:00 pm to 05:00 pm

12, March

Session 11:	09:30 am to 11:00 am
Tea Break:	11:00 am to 11:30 am
Session 11:	11:30 am to 01:00 pm
Lunch Break:	01:00 pm to 02:00 pm
Session 12:	02:00 pm to 04:00 pm
Valedictory:	04:00 pm to 05:00 pm