

# SIES Graduate School of Technology

## Department of Electronics and Telecommunication

Presents

### 3 days Hands on Training on Embedded Systems - ARM Mbed Platform

20th-22nd December 2017, 9.30 AM to 4.00 PM

There is difference between education and knowledge. Education provides learning. While knowledge translates that learning into a career that earns a living. But the truth is, our education system is largely structured around academic learning, leaving the task of turning it into a career to the individual. For the less-privileged though, the only barrier that stands between them and a technocrat is knowledge of practical aspects of technology.

This course is meant to be a hands-on type course, giving students a chance to hear and read about embedded system topics, and then put those concepts to work by developing and debugging embedded system hardware and firmware

#### Objectives

- i) Learn about Embedded systems and ARM Mbed platform
- ii) Interfacing various devices like 7 segment display, LCD display.
- iii) Interfacing various sensors like accelerometer, LDR, temperature sensor etc.

#### Course Contents

**Module 1:** Introduction to microprocessor and microcontroller, Introduction to Embedded systems, Introduction to ARM Mbed platform.

**Module 2:** Simple programs like LED blinking, use of BusOut and PwmOut function.

**Module 3:** Basics of 7 segment display and LCD and their interfacing with freedom board.

**Module 4 :** Basics of accelerometer, LDR, potentiometer and its interfacing with freedom board.

#### Who Should Attend

Any student from TE (EXTC/IT/CE) - First come first serve (Seat available only for 20 students- 10 groups with 2 members each)

#### Registration Fees

Course Fees: FREE

(Cost of certificate will be applicable)

#### Contact for Registration

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