

# One day Workshop

On

Embedded Systems using Proteus&Atmel Microcontrollers

12<sup>th</sup> & 15<sup>th</sup> September 2015

Organized by

Department of Electronics and Communication Engineering

Jaya Engineering College

## TOPICS TO BE COVERED

### Proteus Simulation Software

- Exposure to Proteus
- Utilization of library and parts
- Placing & wiring of components
- Circuit Designs
- Light sensors, Temperature Sensors
- Sound card Interfacing
- Virtual Instruments CRO,FG,Power supply,Voltmeter, Ammeter
- Mini Projects

### Keil $\mu$ vision – An Embedded system development tool

- Exposures to Keil  $\mu$ vision3
- Embedded C Programming
- I/O Programming
- LCD & Timer Programming
- Segment Display
- Serial port & Interrupt Programming
- Stepper and DC motor interfacing

### Hardware Implementation using Atmel 89c51 Microcontroller

- Burning hex files in to Chips
- Various Sensors Intefacing
- Relay Interfacing
- DC motor Interfacing
- LCD Interfacing
- Keypad Interfacing

*Note: Best Three Performers will be rewarded with Special Gifts...*