Course Name: **Designing with Microcontroller (Embedded Controller)**

**Course fee:** Rs.5000/- + service tax

**Starting Date:** **15-6-2015**  
**Finishing Date:** **10-7-2015**

**Student Eligibility:** Diploma, Engineering Graduate/PG  
**Course duration:** One month

- Processor Architecture (Princeton and Harvard)
- RISC & CISC Microcontrollers Features & Memories
- Internal Architecture
- Addressing Modes
- Instruction Set
  - Data Movement Instructions
  - Memory Instructions Arithmetic
  - Bit Operation Instructions
- Hardware Features
  - Reset & System Clock / Oscillators Timers,
  - Input Capture & Output Compare Modes,
  - Watchdog Timer, Timer/Counter
- Interfacing LED’s, Switches & LCD Parallel Interface, ADC and DAC.
- Serial Interface through RS232, I2C
- SPI Communication
- CAN Interface & USB Interfacing