

## Microcontroller Advanced programming

**Pre-request:** Good knowledge with microcontroller basic

**Course duration:** 40 Hours

**On completing this course you will be able to:**

- Able to find any details in the data sheet
- Able to deal with different types of timers
- Able to deal with different types of counters
- Connect graphical LCD with microcontroller
- Connect touch module with microcontroller
- Understand one wire protocol
- Make network with microcontroller
- Connect memory card with microcontroller
- Make Intelligent power supply project
- Make remote control

## Course Content:

- Timers control applications
- Counters control applications
- Comparators applications
- Graphical LCD
- Touch LCD
- GSM module control
- Wireless control
- Ethernet control
- Network with microcontroller
- Memory card application
- One wire protocol
- SPI protocols
- USB communication applications
- Interrupt applications
- Analog voltage ref. applications
- Capture-Compare-PWM applications
- Ultrasonic distance project
- Intelligent power supply project
- Auto parking car project
- Remote control project(RF - IF)