

Embedded Systems & Design

Course Duration 8-10 weeks (Sundays: 10:00 AM to 1:00 PM)

Course Contents:

1. Introduction to Embedded systems
2. System on chip fundamentals
3. 8051 Architecture
4. ARM Architecture
5. Cypress Programmable system on chip(PSoC) overview
 - PSoC architecture
 - Peripherals
6. PSoC Designer Flow
 - Hardware Project creation
 - Software application
7. Source Code Programming
 - C Code Fundamentals
 - Source code developing
8. Programming and Debugging
 - Programming of PSoC3/5
 - USB Boot Loader
 - Debugging using JTAG
9. Implementation sample designs using PSoC
 - LCD Display
 - LED and Switch Interface
 - UART Interface
 - PWM and Stepper Motor control
10. Hands on Examples with each Development Kit