



NODAL CENTRE FOR ENTREPRENEURSHIP AND MANAGEMENT DEVELOPMENT

(Sponsored by All India Council for Technical Education, New Delhi)

PSG POLYTECHNIC COLLEGE, COIMBATORE – 641 004.

(An ISO 9001 Certified Institution)

Announces

A Certificate Programme on

EMBEDDED SYSTEMS

Objective

To develop the next generation of technologies, methods and tools for modeling, design, implementation and operation of hardware / software systems embedded in intelligent devices. An end-to-end systems vision should allow building cost-efficient ambient intelligence systems with optimal performance, high confidence,

reduced time to market and faster deployment.

Course coverage

- Introduction to Embedded Systems
- Microprocessors and Microcontrollers
- MCS-51 Core Microcontroller Architecture
- Instruction Set and Programming Exercises
- Hardware and Software Tools
- Embedded 'C' Programming
- Programming and Accessing I/O Ports
- Interfacing 7Segment displays
- Interfacing LCD
- Interfacing Switches and Keyboard
- Programming Using Timers/Counters
- Interrupt Handling
- Interfacing Buzzer and Relay
- Interfacing stepper motor and DC motor

- Programming using UART
- Introduction to I²C Communication
- Programming the EEPROM and RTC
- Overview of Communication Protocols
 - ↳ Zigbee
 - ↳ Wi-Fi
 - ↳ Ethernet
 - ↳ Bluetooth
 - ↳ GSM and
 - ↳ GPRS
- Concepts of RTOS (Real Time Operating System)
- Introduction to ATMEGA 8 Microcontroller
- Introduction to Rabbit Core Microprocessor and Demonstration
- Tour to PSoC (Programmable System on Chip)
- Mini Project

Eligibility

Diploma / B E students and working professionals

Course Duration

Duration : 5 Days – Full time (Sundays Only)

Timings : From 09.30am to 05.00 pm

Fee

Course Fee : ₹ 5,000/- (Rupees Six Thousand only) & (10.3% Service Tax and registration fee to be added)

FOR FURTHER DETAILS & REGISTRATION PLEASE CONTACT

The Co-ordinator

Nodal Centre for EMD, C-Block, PSG Polytechnic College, Peelamedu,
Coimbatore – 641 004, Tamilnadu

Phone – 0422- 4363335. E-mail - psgnodal@yahoo.co.in

Website - www.psgpolytech.ac.in