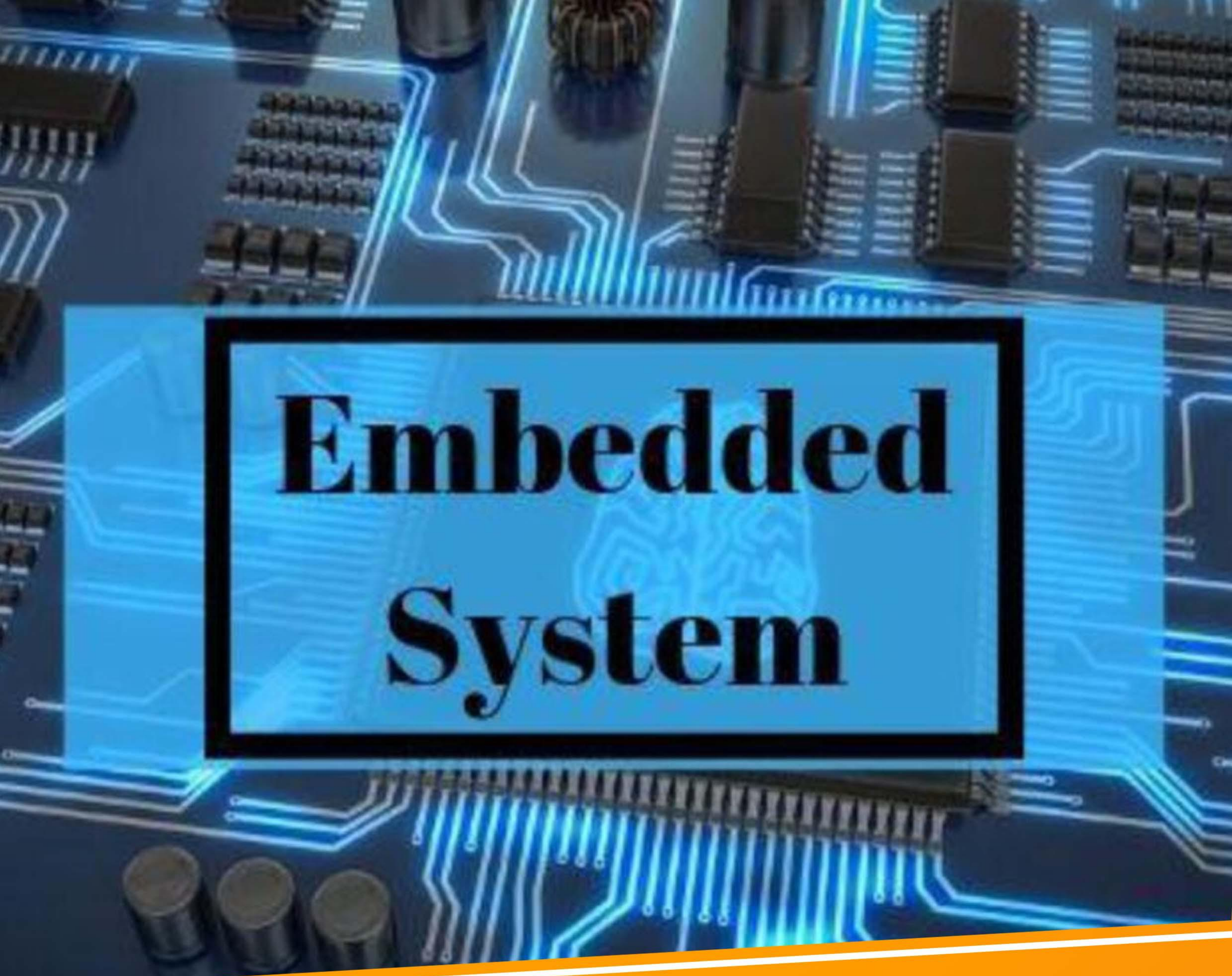


Embedded System Industrial Training



Embedded System

About Course

This is a course on Embedded & IoT Systems which provides understanding of Embedded Systems, Architecture of Embedded System, IoT Overview and Hardware Platforms, ARM Architecture, Basic C Programming, Experiments using ARM Cortex Microcontroller, Arduino UNO Development Board, Node MCU, IoT Cloud Platforms. The Course is planned with instructor led Offline/live sessions of lectures and demonstrations

EMBEDDED SYSTEM INDUSTRIAL TRAINING

CURRICULUM

- ① **Introduction To Embedded System**
 - History and Need of Embedded System
 - Basic Components
 - Hardware Classification
 - Programming Language Classification
 - Advantage and Disadvantage of Low/High Level Language
- ② **Microprocessor And Microcontroller Classification**
 - Microcontroller Vs Microprocessor
 - Classification Based on Architecture
 - Jump Instruction
 - Logical Instruction
 - Branching Instruction
- ③ **Interfacing Of LED And Matrix**
 - Introduction Of LED's
 - Interfacing Circuits
 - Description Of LED's

Programming of LED's Interfacing
Interfacing of LED's Matrix

4 Interrupt Driven Programming

Introduction to Interrupt
Types Of Interrupt
Programming Of Software and Hardware Interrupt

5 ADC Interfacing

ADC Introduction
ADC Interfacing Circuit
Working and Interfacing of Temperature Sensor

5 Interfacing Of External Memory


Introduction to External Memory Interfacing
Using I2C Library to Read/Write External Memory
Introduction to Embedded C
C Vs Embedded C
Embedded C Data type
Statements and Loops In Embedded C
Programming Of Timer and Counter
Serial Port Programming
Interrupt Programming
LCD Interfacing
Motor Interfacing
Keyboard Matrix Interfacing



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