

Diploma in Embedded System

1. Basics of Embedded System

- Introduction
- C Programming
- 8051 Architecture and C51 Assembly Language Programming
- Embedded C
- Design of Embedded Systems –
- Mini Project using the hardware kit

Micro Controller

- Introduction To 8051 Microcontroller
- Registers & Memory Of At89c51
- Assembly Language Programming Of At89c51
- Interfacing Of Led
- Interfacing Of Seven Segment Display
- Interfacing Of Lcd
- Interfacing Of Switches & Keyboard Matrix
- Interfacing Of Motors
- Timers & Counter Programming
- Serial Communication Programming
- Interrupt Driven Programming
- Interfacing Of Adc
- Interfacing Of External Memory

2. Embedded C

- Microprocessor & Microcontroller Classification
- Introduction To Mcs-51
- Introduction Of Embedded C
- Constants, Variables & Data Types
- Operators
- Control Structures & Loops
- Functions
- Handling Pointers
- Introduction To Software's
- Interfacing Of Led
- Interfacing Of Seven Segment Display
- Interfacing Of Lcd
- Interfacing Of Switches & Keyboard Matrix
- Interfacing Of Motors
- Timers & Counters Programming
- Serial Communication Programming
- Interrupt Driven Programming
- Interfacing Of Adc
- Sensor Interfacing

Advance Concept

- ARM
- PIC Controller
- SDLC
- Linux
- Ras Bery Pi
- PCB Designing

4. Project

- Project Document
- Project Design
- Technical Document
- Functional Document
- Development Phases
- Testing
- Implementation
- Maintenance

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5. Certification

- Applying for certification
- Preparation for certification
- Certificate guidance

6. Aptitude Test Preparation

- Abstract reasoning
- Verbal reasoning test
- Numerical Reasoning Test
- Spatial reasoning
- Mechanical reasoning

7. C.V. and Interview

- CV preparation
- Mock Interviews

8. Live Scenario

