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100% JOB ORIENTED ADVANCE EMBEDDED COURSES



SCAN & CONNECT

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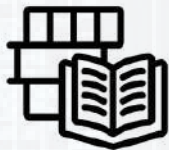
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www.technoscripts.in

ABOUT US

TechnoScripts is an ISO 9001:2015 certified best training institute for advance courses in Embedded System. We are pioneer of Embedded System training in Pune development. Though we provide many different courses and training in embedded all aim at giving good practical knowledge to students as well help them in career

OUR FEATURES



STUDY
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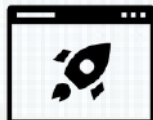
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PREPERATION



LIVE PROJECTS



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LABS



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OUR COURSES

Advance Career Track

Automotive Embedded

PG Diploma in Embedded

MATLAB Simulink

MBD Training

IOT Training

Autosar Training

LIVE PROJECTS | INTERVIEW PREPERATION | MOCK INTERVIEWS

CONTACT US FOR DEMO NOW

COURSE SYLLABUS : PG DIPLOMA IN EMBEDDED SYSTEMS

Module 1: Introduction to Programming and the C Language

- Introduction to C, its history, and basic structure (tokens, keywords, identifiers)
- Data types, variables, constants, operators, and expressions
- Control flow statements and functions (if, for, while, function prototypes)
- Arrays, pointers, structures, and unions
- File I/O, dynamic memory allocation, macros, and preprocessor directives

Module 2: C Programming Foundations and Software Development

- Concepts of software development and programming techniques
- Program design, debugging strategies, and testing methods
- Overview of software development life cycle and methodologies
- Hands-on exercises and assignments to reinforce learning
- Outcome: Ability to write and debug basic C programs independently

Module 3: Embedded C Programming

- Microcontroller architecture, register-level programming, and DMA
- Programming and debugging techniques for embedded applications
- Interrupts, real-time considerations, and embedded C features
- Lab work using development boards with sensors and hardware
- Use of embedded C in automotive, medical, and control systems

Module 4: Embedded Systems Overview

- What is an embedded system and its development life cycle
- Programming techniques and common design challenges
- Memory types: RAM, ROM, EPROM, EEPROM, FLASH
- Embedded tools: cross compilers, assemblers, linkers, and loaders
- Debugging, troubleshooting, and project integration practices

Module 5: PIC Microcontroller

- Introduction to PIC family and architecture of PIC18F4520
- Memory structure, SFRs overview, and functional block diagram
- Developing and debugging assembly-level programs using MPLAB
- Hardware interfacing and real-time project development on PIC18F
- Debugging methods and troubleshooting on PIC18F4580

Module 6: ARM7 Microcontroller

- Overview of ARM architecture and processor core
- Instruction decoding, conditional execution, and ARM series comparison
- Efficient C coding for ARM, software interrupts, and peripheral interfacing
- Development environment, timers, UART (polling/interrupt) programming
- Project work using debugging tools and hardware-level testing

Module 7: Hardware Interfacing

- Interfacing LEDs, switches, relays, and displays (LCD, 7-segment)
- ADC, stepper motor, and DC motor integration
- Sensor interfacing: IR, ultrasonic, MEMS, and RTC
- Serial communication and real-time data handling
- Hands-on application testing using microcontroller boards

Module 8: Communication Protocols

- Overview of UART, USART, and communication parameters (baud rate, parity, etc.)
- Voltage levels, MAX232 usage, and protocol architecture
- Implementing serial communication on microcontrollers
- Transmitting and receiving data, both wired and wireless
- Configuration, modes, and embedded applications

PLACEMENTS

We provide 100% placement support to every student enrolled for Job oriented courses. We invite top companies for campus interview at our centre as well arrange the interviews for students at company premises.

OUR ALUMNIES ARE PLACED AT



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