TechnoScripts

[An ISO 9001:2008 Certified Company]

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100% JOB ORIENTED ADVANCE EMBEDDED COURSES

SCAN & CONNECT

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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 MATERIAL

ISO 9001:2015 CERTIFIED

100% PLACEMENT SUPPORT

COURSE COMPLETION CERTIFICATE

INTERVIEW PREPERATION

LIVE PROJECTS

STATE OF THE ART LABS

LEARN ONLINE / CLASSROOM

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

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COURSE SYLLABUS : ADVANCE CAREER TRACK IN EMBEDDED SYSTEMS

C, Embedded C - This section on C programming for embedded systems covers fundamental concepts like variables, control structures, arrays, functions, pointers, structures, and file handling. It delves into input/output methods, advanced topics like memory allocation, and emphasizes software development methodologies.

C++ Programming - C++ excels in embedded systems with memory control and object-oriented support. A core C++ syllabus spans language introduction, fundamental concepts, OOP essentials, functions, arrays/strings, pointers/memory management, and file I/O, catering to high and low-level embedded programming needs.

Microcontrollers : PIC18F4580, LPC2148 and STM32F407G-DISC1.

- 8-bit Microcontroller PIC - Explore PIC microcontrollers, valued for compactness and versatile interfaces in embedded systems across industries. Embrace PIC18F specifics, architecture, memory, and peripherals, including C programming & hardware interfacing. Develop skills in timers, debugging, & project implementation.
- 32-Bit Microcontroller ARM7 - ARM7's potent Cortex-M3 core reigns in embedded systems for high-performance, low-power operation. Courses encompass architecture, Keil IDE, C, and peripherals like UART, ADC, DAC, RTC, nurturing adeptness in LPC2148 microcontroller project development.
- ARM Cortex STM32 - STM32 microcontrollers by STMicroelectronics, powered by ARM Cortex-M cores, excel in real-time applications with low latency and high performance. With rich support, STM32 Cube MX/IDE development, covering architecture, peripherals, communication protocols, and fostering efficient project creation and integration for diverse embedded systems.

Communication protocols - Communication protocols are vital in embedded systems, facilitating device interaction; protocol selection hinges on factors like distance, data volume, and power needs of the system.

- Serial UART/USART - Architecture, parameters, signaling, voltage levels.
- CAN Protocol - CAN protocol, derived from the Controller Area Network (CAN) bus, links vehicle control units for in-vehicle communication.
- 12C Protocol - I2C, a two-wire communication protocol, links devices. Training covers architecture, message format, arbitration, error handling, microcontroller implementation, and advanced aspects.
- SPI Protocol - SPI protocol training covers introduction, mechanism, and components like master/slave, addressing, and data format.
- MQTT : Learn MQTT's origins and delve into architecture, including message structure, QoS levels, and processes like Connect, Publish, Subscribe, and Disconnect.
- Modbus: Modbus or MODBUS is a client/server data communications protocol in the application layer.

RTOS: RTOS module covers the fundamentals of real-time operating systems, including the distinctions between hard and soft real-time constraints and various task scheduling methods such as preemptive and cooperative scheduling.

Python Programming - Python programming includes arrays, functions, tuples, conditions, operators, data types, libraries, control structures and variables.

Linux Programming - Linux's popularity in embedded is due to its open-source nature, reliability, & flexibility.

Internet of things - Delve into IoT's cross-industry applications, grasping architecture, software, languages, protocols, networking, trends, and hands-on project creation for smart homes and industrial automation. Acquire comprehensive expertise for connected systems and future developments.

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.

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