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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
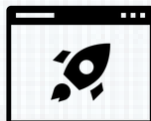
OUR FEATURES
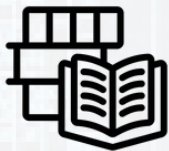
STUDY MATERIAL

ISO 9001:2015 CERTIFIED

100% PLACEMENT SUPPORT

COURSE COMPLETION CERTIFICATE

INTERVIEW PREPERATION

LIVE PROJECTS

STATE OF THE ART LABS

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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

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COURSE SYLLABUS : ARM7 TRAINING COURSE

Module 1: Introduction of ARM & Architecture
- ARM, learning why these 16/32-bit processors are in everything
- You'll get the lowdown on the ARM architecture, like how it handles instructions
- We'll check out the ARM processor core, the heart that runs your code
- I'll show you how ARM's design makes it fast and power-efficient for projects

Module 2: ARM Register Set and Modes
- You'll learn about ARM's register set, like the chip's memory for quick data access
- We'll cover operating modes, like user or interrupt mode, and what they do
- I'll explain how registers switch during tasks, using examples like a timer interrupt
- You'll see why knowing modes is key to controlling the ARM7 chip

Module 3: Exceptions and Conditional Execution
- We'll tackle exceptions, like what happens when your ARM7 chip hits an error or interrupt
- You'll learn conditional execution, where code runs only if certain conditions are met
- I'll show you how to code conditions, like skipping a step if a sensor's off
- We'll practice handling exceptions to keep your projects from crashing

Module 4: ARM Development Environment
- You'll set up the ARM development environment, like Keil or IAR, to start coding
- We'll use assemblers and compilers to turn your code into something the chip understands
- Linkers and debuggers are next—I once missed a bug 'cause I skipped debugging
- You'll get hands-on with tools to write and test ARM7 programs

Module 5: GPIO and Basic Interfacing
- You'll learn ARM7 GPIO to control pins, like making an LED blink with code
- We'll hook up switches, coding them to trigger stuff, like a buzzer
- Relays are fun—you'll make one turn on a light with a satisfying click
- I'll guide you to wire LEDs and switches right, so no pins get fried

Module 6: Timers, Counters, and Interrupts
- You'll set up ARM7 timers and counters to track time or count events, like button presses
- We'll code interrupts and ISRs to react fast, like when a sensor detects motion
- I'll explain interrupt priorities, so your code knows what to handle first
- You'll practice timer interrupts, making sure your project stays on track

Module 7: UART and Serial Communication
- You'll learn ARM7 UART programming to send data, like to a PC or module
- We'll try polling and interrupt-based UART—interrupts are way cooler, trust me
- I'll show you how to use serial print for debugging, like checking sensor values
- You'll code a serial link, avoiding my old mistake of mixing up TX and RX pins

Module 8: On-Chip Peripherals and Pin Connect Block
- You'll explore the pin connect block, like a switchboard for ARM7's pins
- We'll program on-chip peripherals, like the A/D converter for analog signals
- You'll code GPIO ports to control multiple devices at once, like LEDs and relays
- I'll explain how to map pins right, so your hardware talks to the chip properly

Module 9: Advanced Interfacing
- You'll interface an LCD to show messages, like "ARM7 Running!" on the screen
- We'll connect a Real-Time Clock (RTC) to keep time, perfect for a digital clock
- DC motors are next—you'll code them to spin based on a switch input
- You'll use the ADC to read analog inputs, like a temperature sensor's signal

Module 10: GSM Interfacing and Efficient C Programming
- You'll learn to interface a GSM module with ARM7 for sending texts or data
- We'll write efficient C programs, making your ARM7 code fast and lean
- I'll share tricks for optimizing code, like cutting out loops that slow things down
- You'll tie everything together, coding a project that uses GSM and peripherals

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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