

## ARM7 Syllabus

### **ARM 7 Training:**

- Introduction to ARM
  - Introduction to 16/32-bit Processors
  - The ARM Architecture
  - Overview of ARM
  - Register Set and Modes
  - ARM Processor Core
  - Data Path and Instruction Decoding
  - Comparison of ARM Series (ARM 10, ARM 11, Cortex)
  - Intelligent Energy Management
  - Introduction to Exceptions
  - Conditional Execution
  - ARM Development Environment
  - Assembler and Compilers
  - Linkers and Debuggers
  - Software Interrupts
  - Introduction to ARM Cortex family of processors
  - ARM 7 Interfacing.
  - Writing efficient C programs for ARM
  - Timer, UART programming (polling/interrupt)
  - System Peripherals
  - Pin Connect Block
  - Hardware Debugging Tools
- **On-Chip Peripherals Study, Programming, and Application:**
    - GPIO Ports
    - Timers & Counters
    - A/D converter
    - Interrupts & ISR's
    - Interfacing of LEDs
    - Interfacing of Switches
    - Interfacing of Relays
    - Interfacing of LCD
    - Interfacing of ADC

- Interfacing of DC Motors
- Interfacing of Real Time Clock
- Serial Communication
- GSM interfacing
- GPS Interfacing

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