

ARM Cortex M3 Syllabus

Theory Syllabus:

- Introduction to ARM CORTEX M3
- Overview & Architecture of ARM CORTEX
- Pin connect block
- Iterative Design workflow for Communication Systems
- Peripheral Interface
- 32 bit & 16 bit timer accessing
- Serial Communication
- I2C & SPI communication
- CAN Module
- LPC 1786 Ethernet
- Nested vectored Interrupt controller
- Sticky Bits

Practical Syllabus

- Familiarization with Keil 4 software for CORTEX. Writing Simple programs in Embedded C language. Compiling, Simulation & debugging the program. Burning the hex code in flash memory & testing it. Interfacing discrete LED's, Seven segment LED's, Binary Counter & Decimal counter
- Interfacing LCD
- Keyboard Interface
- ADC/DAC Programming
- UART Communication
- Timers Programming
- Interrupt Handling
- I2C & SPI
- RTC & EEPROM