

ARM is a 32-bit reduced instruction set computer (RISC) instruction set architecture (ISA) developed by ARM Holdings. This hands-on Workshop provides the opportunity to make your hands dirty on Blue board by gaining enough programming knowledge on ARM Controller.

Topics to be covered in Workshop

- ARM Architecture
- Introduction
- Why is ARM so popular
- The different ARM processor family
- Programmer's Model
- Instruction Sets (ARM, Thumb)
- LPC21xx/LPC22xx Description
- Memories
- Peripherals
- Code density (Thumb, examples)
- Power Consumption-Performances
- Speed
- RTOS support
- Software development tool
- Boot Loaders
- Cross-Compilation
- INSIGHT debugger
- Evaluation of ARM development Board
- Introduction to ARM development board
- Functions of the board
- Demonstration of the board
- Run a sample program
- Analog to Digital Converter
- Digital to Analog Converter
- Pulse Width Modulator
- Watchdog Timer
- Do debugging
- Projects based on ARM processor
- Advanced programming

Duration: The duration of this workshop will be two consecutive days, with eight hour session each day in a total of sixteen hours properly divided into theory and hands on sessions.

Eligibility: Anyone with good C programming skills and basic knowledge of microcontroller/Microprocessor.

Fee: Rs. 1400/-(inclusive of all Taxes) per participant.

Certification Policy:

- Certificate of Merit for all the workshop participants from Illuminated Minds.
- At the end of this workshop, a small competition will be organized among the participating students and winners will be awarded with a '**Certificate of Excellence**'.