



ARM

LEVEL 1 : INTRODUCTION TO EMBEDDED SYSTEM

- Introduction to embedded system
- Importance of embedded system over discrete electronics system

LEVEL 2 : INTRODUCTION TO ARM PROCESSOR

- Introduction to ARM processor
- ARM related companies and its opportunities
- ARM processor family
- Applications
- Compiler

LEVEL 3: LPC2148 MICROCONTROLLER

- LPC2148 ARM 7 microcontroller
- Features of LPC2148
- System control
- Block diagram of LPC2148
- Pin diagram of LPC2148
- Architectural overview
- Memory (on-chip flash program memory & on-chip RAM)
- **PIN CONNECT BLOCK ,GPIO**
 - 1) General purpose parallel I/O: Features
 - 2) GPIO programs (8 bit led's and switches, relays and buzzer, seven segment led, keypad , lcd)
- **TIMER,ADC,DAC,UARTS**
 - 1) TIMER/COUNTER: Features, Interfacing

- 2) 10 bit ADC, DAC: Features, Interfacing
- 3) UARTs: Features, Serial communication
- Interrupt controller, Interrupt sources, External interrupt
- **I2C,SPI,PWM**
 - 1) I2C, SPI: Features, serial communication
 - 2) PWM

LEVEL 4: INTERFACING WITH GSM , ZIGBEE etc..

LEVEL 5: PROJECT TRAINING