

## AVR Syllabus

Introduction to AVR  
Series of AVR controllers  
Architecture of AVR  
What is embedded Systems  
Embedded Design development life cycle  
Embedded System Programming  
Embedded Systems Design Issues  
Introduction to Embedded Development tools  
Assemblers, Compilers, Linkers, Loaders, Debuggers  
Embedded In-Circuit Emulators and JTAG  
Tools, Build Tools for Embedded Systems  
Avr studio IDE  
Electronics Designing Concepts  
Types of Memory  
Pin Configuration of AVR  
Registers of AVR  
Memory Paging, Addressing modes  
Different ports and DDR register  
Literal and control Operations  
Watchdog timer, Interrupts, Timers/ counter

### **External Hardware Interfacing:**

LED Interfacing  
Switch Interfacing  
PWM Interfacing  
LCD Interfacing

ADC Interfacing  
Timer Interfacing  
UART Interfacing  
Keypad 4\*4 Interfacing  
Relay Interfacing  
Sensor Interfacing  
Buzzer Interfacing  
DC motor Interfacing  
GSM Interfacing

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