

Syllabus for 2009

Standard C89/C99

Advance C programming

Microcontroller programming on C

Linux Device Driver programming on C

Networking programming on C

Application development using SDL and GTK

Linux Essential for C programmers



www.lakshyatraining.org

Microcontroller & Robotics

Basic Electronics Components and Equipment Study

Sensors

Motors

Display Modules

Digital Electronics



- 1 Binary Systems
- 2 Boolean Algebra and Logic Gates
- 3 Gate level minimization
- 4 Combinational Logic
- 5 Synchronous sequential logic
- 6 Registers and Counters
- 7 Memory and Programmable logic
- 8 Digital Integrated Circuits
- 9 555 timer application
- 10 Digital to Analog converter
- 11 Analog to digital converter

MICROCONTROLLER & EMBEDDED SYSTEMS

Microcontrollers

The 8051 Microcontrollers

1. Inside 8051
2. Introduction to 8051 assembly programming
3. I/O programming in 8051
4. And many more....

AVR Microcontrollers (ATMEGA series microcontrollers)

1. Architectural Overview of the AVR
2. Development Hardware
3. Development Software
4. Types of memory-a brief insight
5. Memory layout in ATMEGA 16
6. The AVR System Clock
7. I/O- Ports
8. Analog Comparator in AVR
9. Analog to Digital Conversion
10. Interrupts and ISR's
11. Power management in microcontroller

Idle mode, ADC noise reduction mode, powerdown mode, power save mode, standby mode, extended standby mode.c

Faculty : Pradeep Kumar Ray

Duration : 2 Months (120 hours theory and unlimited Practical time)