

## Linux Kernel Programming

 Duration: 5 Days

 Available Languages: English

### Audience

Software developers, students who are interested to learn Linux kernel development and Embedded Linux.

### Precondition

Attendees should know the Linux system usage and good knowledge of C language.

### Goals

Learn Linux kernel programming and operating system.

### Contents

- Linux Kernel compilation and cross compilation
- OS concepts
- Process
- Threads
- IPC
  - # Shared memory
  - # Mutex and semaphores
  - # Pipes
  - # TCP/IP(sockets)
- Scheduler
  - # FIFO
  - # LIFO
  - # Priority based scheduling
  - # Hybrid scheduling
- Linux Kernel programming
  - # Developing module
  - # Developing utility
  - # Creation of system call
- Memory management
  - # Memory allocators
  - # Page table vs segmentation
- Filesystems
  - # SysFs
  - # ProcFs
- File management
  - # Inode object

- IOCTL
- Device drivers
  - # Device (/dev)
  - # Character drivers
  - # Block drivers

## Booking

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