

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Computer Science and Engineering - NOC:Introduction to Operating Systems

Subject Co-ordinator - Prof. Chester Rebeiro

Co-ordinating Institute - IIT - Madras

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Intro to the Course
Lecture 2 - Introduction to OS
Lecture 3 - PC Hardware
Lecture 4 - From Programs to Processes
Lecture 5 - Sharing the CPU
Lecture 6 - Introduction
Lecture 7 - Virtual Memory
Lecture 8 - MMU Mapping
Lecture 9 - Segmentation
Lecture 10 - Memory Management in xv6
Lecture 11 - PC Booting
Lecture 12 - Week 3 Introduction
Lecture 13 - Create Execute and Exit from Processes
Lecture 14 - System Calls for Process Management
Lecture 15 - Interrupts
Lecture 16 - Interrupt Handling
Lecture 17 - Software Interrupts and System calls
Lecture 18 - CPU Context switching
Lecture 19 - CPU Scheduling
Lecture 20 - Priority Based Scheduling Algorithms
Lecture 21 - Multi-Processor Scheduling
Lecture 22 - Scheduling in Linux
Lecture 23 - Completely Fair Scheduling
Lecture 24 - Inter Process Communication
Lecture 25 - Synchronization
Lecture 26 - Software solutions for critical sections
Lecture 27 - Bakery Algorithm
Lecture 28 - Hardware Locks
Lecture 29 - Mutexes

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- Lecture 30 - Semaphores
- Lecture 31 - Dining Philosophers Problem
- Lecture 32 - Deadlocks
- Lecture 33 - Dealing with Deadlocks
- Lecture 34 - Threads - Part 1
- Lecture 35 - Threads - Part 2
- Lecture 36 - Operating system security
- Lecture 37 - Information Flow policies
- Lecture 38 - Buffer Overflows
- Lecture 39 - Preventing Buffer Overflow Attacks