



# Operating Systems Course Contents



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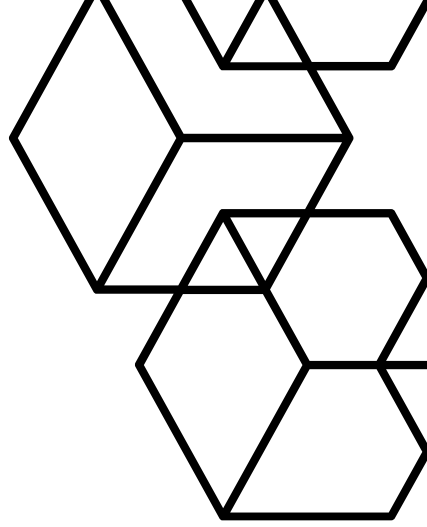
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## CHAPTER 1 : INTRODUCTION TO OPERATING SYSTEMS

- Definition of Operating Systems
- Functions of Operating Systems
- History of Operating Systems

## CHAPTER 2 : PROCESS MANAGEMENT

- Process Management Overview
- Process Scheduling Algorithms
- Process Synchronization



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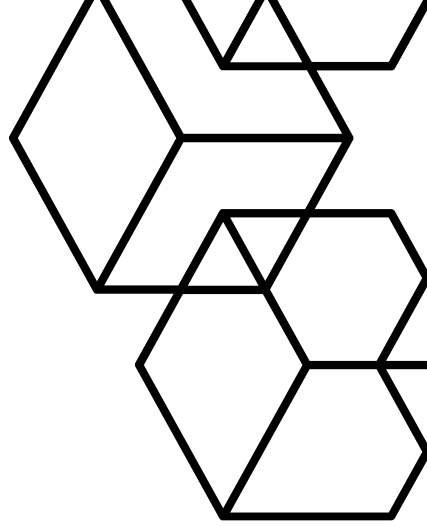
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## CHAPTER 3 : MEMORY MANAGEMENT

- Memory Management Overview
- Virtual Memory Management
- Page Replacement Algorithms

## CHAPTER 4 : FILE SYSTEMS

- File Systems Overview
- File System Implementation
- File System Management



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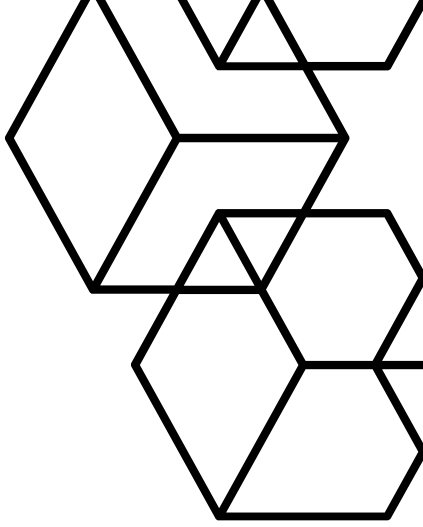
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## CHAPTER 5 : INPUT/OUTPUT SYSTEMS

- I/O Systems Overview
- Device Management
- Disk Scheduling Algorithms

## CHAPTER 6 : SECURITY AND PROTECTION

- Security and Protection Overview
- Access Control and Authentication
- Viruses and Malware



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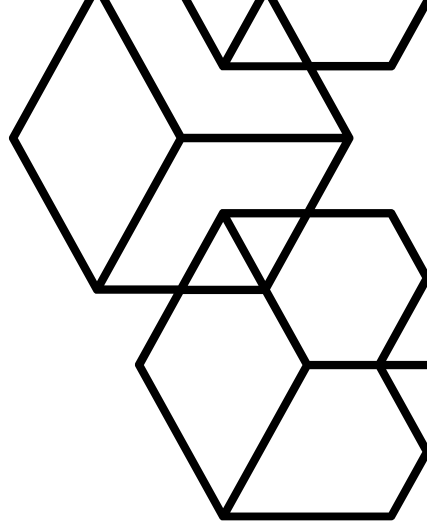
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## CHAPTER 7 : DISTRIBUTED SYSTEMS

- Distributed Systems Overview
- Distributed File Systems
- Distributed Synchronization and Consistency

## CHAPTER 8 : VIRTUALIZATION AND CLOUD COMPUTING

- Virtualization Overview
- Cloud Computing Overview
- Containerization



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## CHAPTER 9 : CASE STUDIES

- Case Study 1: Linux Operating System
- Case Study 2: Windows Operating System
- Case Study 3: Android Operating System

