

OPERATING SYSTEM

COURSE CODE: MOOCCSE-A06

DURATION: 05Weeks.

Course Prerequisites:

Basic Knowledge of Computer

Learning Outcomes:

1. You will become very familiar with the core concepts of Operating Systems
2. Understand how Operating Systems work
3. You will view Computer Science in a different dimension
4. Understand how Process scheduling is done in Operating Systems
5. Understand Memory management in Operating Systems

Course Description:

In this course, you will learn what is an Operating system, and how it works. You will gain about how operating system works, how multitasking works, how scheduling works, what is a process, thread, deadlock and much more. This course will equip learners with foundational knowledge of operating systems. This course is designed to give you the operating system skills you need to crack the interview questions on operating system, so this course is for you.

COURSE DETAILS

MODULE 1 (Overview of Operating System)

TOPIC 1: (Operating System)

Lecture 1.1: (Definition of operating system)

TOPIC 2: (Functions and Operations of Operating System)

Lecture 2.1: (Functions of Operating System)

Lecture 2.2: (Operations of Operating System)

MODULE 2 (Process & Thread Management)

TOPIC 1: (Process Management)

Lecture 1.1: (Process in Operating System)

Lecture 1.2: (Process Synchronization)

Lecture 1.3: (Process Scheduling)

Lecture 1.4: (Context Switching)

TOPIC 2: (Multi-threading)

Lecture 2.1: (Introduction of Threads)

Lecture 2.2: (Types of Threading)

MODULE 3 (Resource Management & Communication)

TOPIC 1: (Resource Management & Communication)

Lecture 1.1: (What is Resource Management in Operating System?)

Lecture 1.2: (Inter Process Communication)

Lecture 1.3: (I/O Management)

TOPIC 2: (Memory Management)

Lecture 2.1: (Introduction of Memory Management)

MODULE 4 (Distributed System in Operating System)

TOPIC 1: (Distributed System)

Lecture 1.1: (Overview of Distributed System in operating system)

MODULE 5 (Deadlocks)

TOPIC 1: (Explain and understanding Deadlocks)

Lecture 1.1: (Deadlocks)