

Operating System Notes



Name

Dicha Zelianivan Arkana

NIM

2241720002

Class

1i

Department

Information Technology

Study Program

D4 Informatics Engineering

Contents

1	Introduction to Operating System	2
1.1	What is an Operating System	2
1.2	Computer System Structure	2
1.3	Operating System Definition	2
1.4	Types of Operating System	2

1 Introduction to Operating System

1.1 What is an Operating System

- Acts as an intermediary between a user of a computer and the computer hardware
- **Goals**
 - Execute user programs and make solving user problem easier
 - Make the computer system convenient to use
 - Use the computer hardware in an efficient manner

1.2 Computer System Structure

- **Hardware:** provides basic computing resources
- **Operating System:** Controls and coordinates use of hardware among various application and users
- **Application Programs:** Define the ways in which the system resources are used to solve the computing problems of the users
- **User:** The one who operates the computer

1.3 Operating System Definition

- **Resource Allocator:** Manages and controls all hardware resources
- **Control Program:** Controls the execution of programs to prevent errors and improper use of the computer

1.4 Types of Operating System

- Batching System
- Multi-programming System
- Time-sharing / Multi-tasking System
- Multiprocessing System (Asymmetry & Symmetry)