Programme : Bachelor of Science (Second Year)
Subject : Computer Science
Semester : IV
Paper Code : CSC104
Paper Title : Computer Organization & Operating Systems
Unit V : Introduction to Operating systems
Module Name : Types of Operating System – Network Operating System, Mobile Operating Systems
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Notes

- ✓ **Network Operating Systems**

- ➢ Network Operating Systems is that all the users are well aware of the underlying configuration, of all other users within the network, their individual connections, etc. and these computers are called as **tightly coupled systems**.

- ➢ A Network Operating System runs on a server and provides the server the capability to manage data, users, groups, security, applications, and other networking functions.

- ➢ The primary purpose of the network operating system is to allow shared file and printer access among multiple computers in a network, typically a local area network (LAN), a private network or to other networks.

- ✓ **Network Operating Systems : Advantages**

- ➢ Centralized servers are highly stable.

- ➢ Security is server managed.

- ➢ Upgrades to new technologies and hardware can be easily integrated into the system.

- ➢ Remote access to servers is possible from different locations and types of systems.

- ✓ **Network Operating Systems : Disadvantages**

- ➢ High cost of buying and running a server.

- ➢ Dependency on a central location for most operations.

- ➢ Regular maintenance and updates are required.

- ✓ **Mobile Operating System**

- ➢ A Mobile Operating System is a set of data and programs that runs on a computer or mobile device.

- ➢ It manages all the hardware and optimizes the efficacy of the application software in the device.

- ➢ A mobile OS manages mobile multimedia functions, mobile and Internet connectivity and so on in a mobile device.

- ➢ Mobile operating systems are those OS which is especially that are designed to power smartphones, tablets, and wearables devices.

- ➢ Some most famous mobile operating systems are Android and iOS.

- ✓ **Mobile Operating System : Advantages**

- ➢ Convenience

- ➢ Includes open source platforms being well supported.

- ➢ Includes notification ease.

- ✓ **Mobile Operating System : Disadvantages**

- ➢ Instability

- ➢ Poor battery quality