

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

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Lecture-2 By Vivek Dubey

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COMPUTER SCIENCE AND ENGINEERING

CS403PC

COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

CS403PC

BHARAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Scheme of Operating System

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S. No.	Course Code	Course Title	L	T	P	Credits
3	CS403PC	Operating Systems	3	0	0	3
6	CS406PC	Operating Systems Lab	0	0	3	1.5

UNIT-1: *Operating System - Introduction*



- Structures –
 - Simple Batch, Multi-programmed, Time-shared,
- Systems –
 - Personal Computer, Parallel, Distributed Systems, Real-Time Systems, System components,
- Operating System Services
- System Calls

Introduction of Computer

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- What is a Computer?
 - **A computer is an electronic machine that processes raw data to give information as output.** An electronic device that accepts data as input and transforms it under the influence of a set of special instructions called Programs, to produce the desired output.
- What are kinds of computer-wares?
 - Hardware
 - Software
 - Firmware
 - Shareware

Contd..

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- Hardware
 - Everything on a computer you can touch. You keyboard, mouse, and monitor, but also your hard drive, CPU and power cord.
- Software
 - Specialized software to work with or control one or several pieces of hardware, usually providing interfaces for high-level software.
- Firmware
 - Specialized software to work with or control one or several pieces of hardware, usually providing interfaces for high-level software.
- Shareware
 - Software provided for free or as a bonus on a magazine enclosed CD, encouraging users to share copies with friends and relatives.

Types of Computer Software

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Software

Set of programs that governs the functioning of computer

System Software

Controls the internal Computer operation

System Management Program

1. Operating System
2. Device Drivers
3. System Utilities

Developing Software

1. Programming Language
2. Language Translator
3. Linker
4. Loader

Application Software

Carries out necessary operations for a specified application to function.

General Purpose Software

1. Word Processor
2. Presentation
3. Spreadsheet
4. Image editor

Specific Purpose Software

1. Reservation System
2. Attendance System
3. Billing System
4. Report Card Generator, etc.

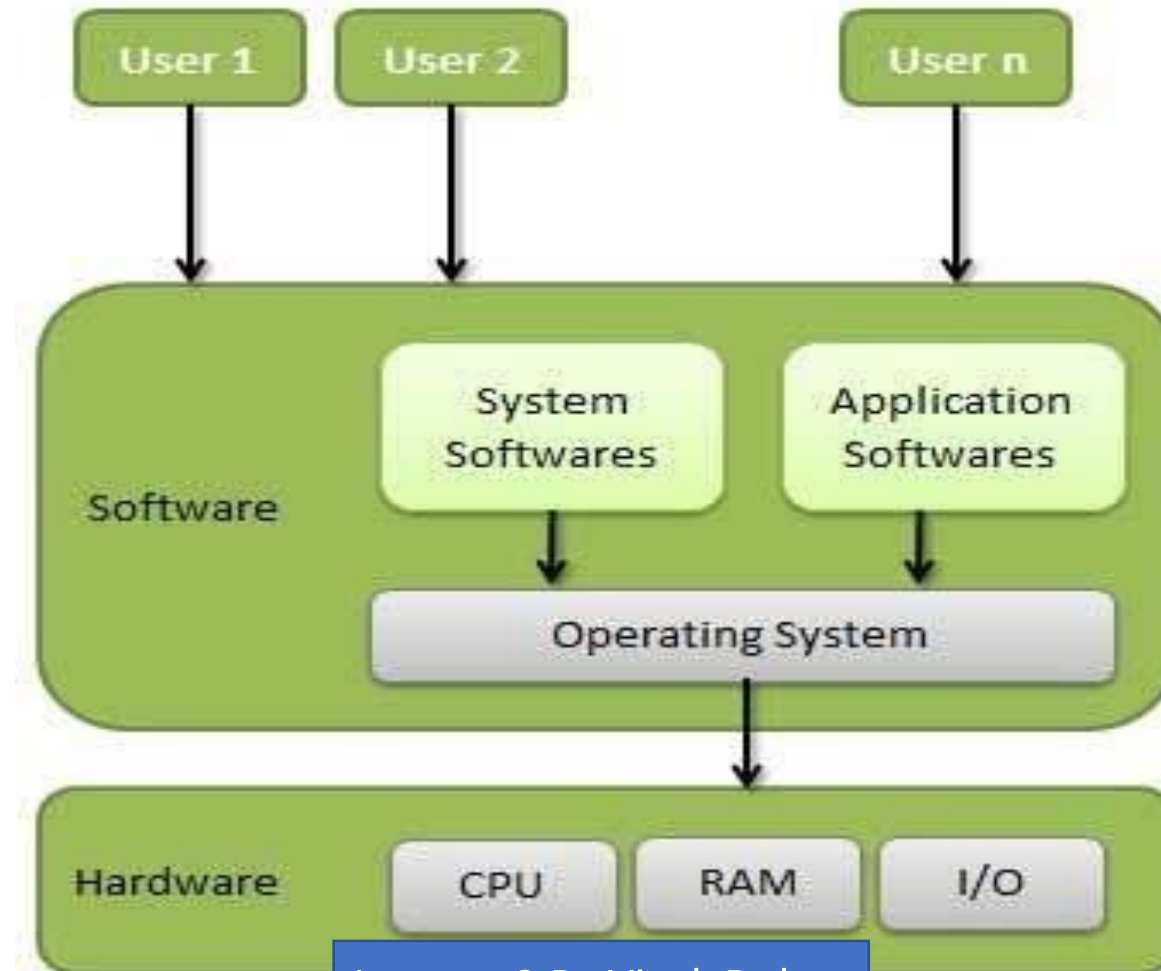
Examples of Operating System

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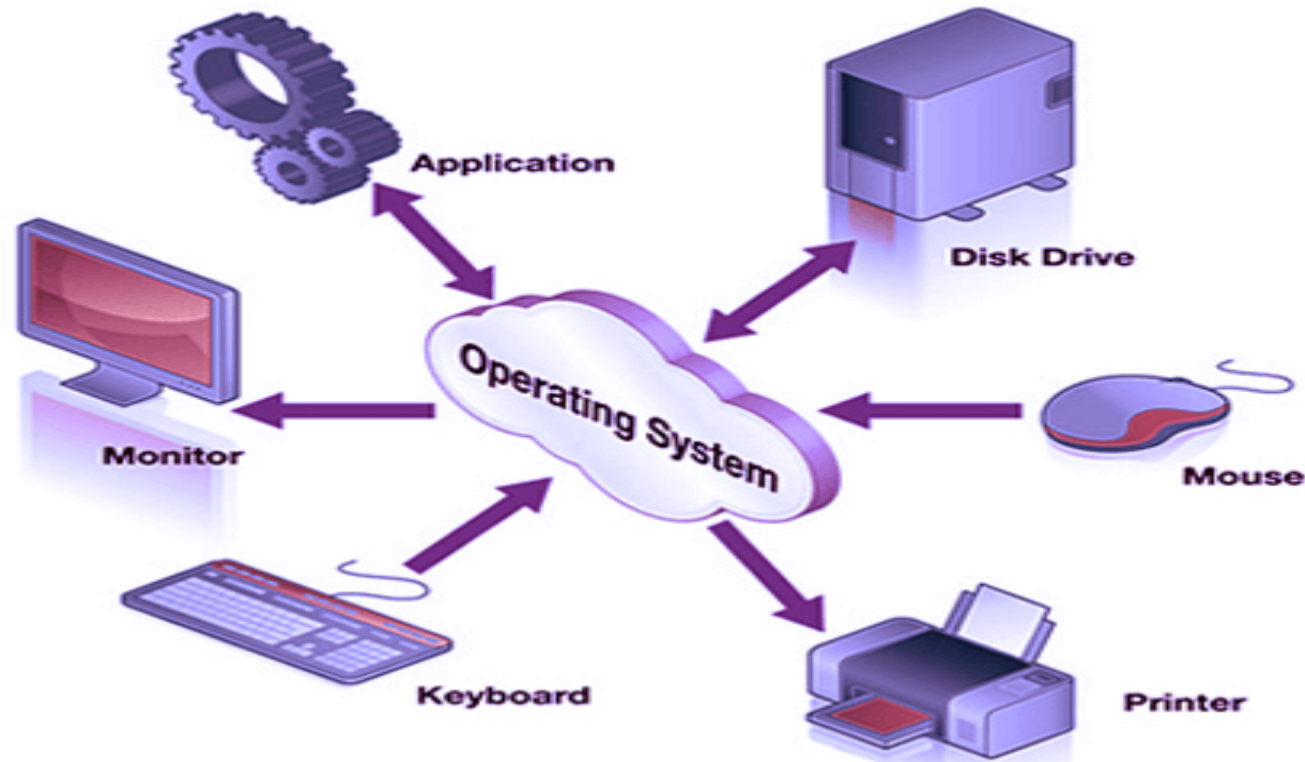


Operating System Interface



OS Controls Different Hardware

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Types of Operating System

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