

**Paper: 203 / Subject: Introduction to Operating System**

**Credits 4**

**Total Hrs/Week: 4**

**Aim:** To understand functionality provided by an Operating System and basic concepts of Windows O.S. Management.

**Prerequisite:** Basic Knowledge of Operating System

**1. Operating System Concepts**

- 1.1. Evolution of Operating System & History
- 1.2. Need of an Operating System
- 1.3. Single User & Multi User Operating System
- 1.4. Elements of an Operating System
- 1.5. Operating System as a Resource Manager

**2. Introduction to File System and File Management**

- 2.1. File Concept
- 2.2. Operations on File
- 2.3. File Access Methods (Sequential Access and Direct Access)
- 2.4. Directory Systems File Management Functions.
- 2.5. File System and Directory Structure organization.
- 2.6. File Protection.

**3. Microsoft Windows Management**

- 3.1. System properties using My Computer
- 3.2. Concept of Domain
- 3.3. Windows Administration Tools
- 3.4. Event Viewer
- 3.5. Computer Management
- 3.6. System Tools
- 3.7. Storage
- 3.8. Introduction to Local Security Policy
- 3.9. Windows MMC & Snap-ins
- 3.10. System Configuration Utility (msConfig)

**4. Device Management**

- 4.1. Device Management Function
- 4.2. Device Characteristics
- 4.3. Disk space Management
- 4.4. Allocation and Disk Scheduling Methods

**Reference Books:**

1. Operating System Concepts – James Peterson – McGraw Hill
2. Operating System – Stallings - PHI
3. Operating System Principles – Silberschatz, Galvin, Gagne -- Willey, India
4. Operating Systems – A. S. Godbole – Tata McGraw Hill

**VEER NARMAD SOUTH GUJARAT UNIVERSITY – SURAT**  
**Bachelor of Computer Application (B.C.A) 1<sup>st</sup> Year (Semester II)**

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5. Operating Systems (Design & Implementation) – Tanenbaum - PHI
6. Advanced MSDOS - Ray Duncon – McGraw Hill