

Course: 203 : Introduction to Operating System

Course Code	203
Course Title	Introduction to Operating System
Credit	4
Teaching per Week	4 Hrs
Minimum weeks per Semester	15 (Including Class work, examination, preparation etc.)
Review / Revision	June 2014
Purpose of Course	An Operating System (OS) is software that manages computer hardware and software resources and provides common services for computer programs. The operating system is an essential component of the system software in a computer system. Application programs usually require an operating system to function.
Course Objective	<ol style="list-style-type: none"> 1. To make students understand functionality provided by an Operating System. 2. Students become aware with Basic concepts of Windows O.S. Management. 3. Students learn device management
Pre-requisite	Basic Knowledge of Operating System
Course Out come	After studying this, students will be able to understand what is role of OS, how process management, memory management, files management is performed by OS. After Completion of the course student will be able to develop applications that better coordinate with respective OS which is so vital.
Course Content	<p>Unit 1. Operating System Concepts</p> <ol style="list-style-type: none"> 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 <p>Unit 2. Introduction to File System and File Management</p> <ol style="list-style-type: none"> 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. <p>Unit 3. Microsoft Windows Management</p> <ol style="list-style-type: none"> 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)

	Unit 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
Teaching Methodology	Class Work, Discussion, Self Study, Seminars and/or Assignments
Evaluation Method	30% Internal assessment. 70% External assessment.