Course Code: 202	Operating System	Credits:04	Marks : 100 (Internal -20 External -80)
Course Outcomes	After completion of this course students will be able to- 1) Possess knowledge of Operating Systems and their types. 2) Apply the concept of a process and scheduling algorithms. 3) Realize the concept of deadlock and different ways to handle it. 4) Understand various memory management techniques and file system.		
Unit No.	**Descriptions**		**No. of Periods**
I	**Introduction of Operating System-** Definition,Objectives,Functions,Generations of OS, Types of OS (Batch,Multiprogramming,TimeSharing,Realtime,Distributed,Personal,Mobile).OS Structure (Monolithic, Layered, Microkernel,Exokernel, Client-Server).		15
II	**Process Management–** Process Management-Introduction to Processes, Process Model, Process creation, Process termination, Process hierarchy, Process states.		15
III	**Memory Management-** Memory Management-Introduction to memory management, Requirements (Relocation,Protection,Sharing Logical organization, Physical organization).Memory partitioning-Fixed partitioning, Dynamic partitioning, Paging, Segmentation. Concept of Virtual memory.		15
IV	**File System-** Files&Filesystem,Filestructure,Filetypes,Fileaccess,Fileattributes,Basicfileoperations.Directories-Single-level & Hierarchical directory systems, Path names & Directory operations. Differentiate between Windows and Linux OS.		15
	Books Recommended: 1. Modern Operating Systems, AndrewS Tanenbaum, 3rd Edition,PHI,2010. 2. OperatingSystems,AchyutSGodbole,2ndEdition,McGraw Hill Publications. 3. Operating Systems, Internals & Design Principles, 4. WilliamStalling,6thEdition,.PearsonPublicati, 5. Operating System, Abraham Silberschatz, PeterBar Galvin,andGregGagne,2008 6. Operating System, Abraham Silberschatz, PeterBaerGalvin,andGregGagne,7thEdition,2004		