

Curriculum Plan

Paper Name: Operating Systems
Class Type: B.Sc. Hons. Computer Science
Semester: Vth Sem GE
Teacher Name: Ruby Gupta

S.No.	Schedule (Approximate)	Topic
1.	Aug 2025	Introduction: Operating systems, System software, Operating system resources, Operating System as resource manager Types of Operating Systems and Organization: Multiprogramming, batch, time sharing operating systems, personal computers & workstations. Basic OS functions, mechanisms of requesting operating system services – system calls and system programs
2.	Aug- Sep 2025	Processor Management: Distinction between program and process, process address space, process states, process scheduling algorithms, process schedulers. Memory Management: Mapping logical address space to physical address space, fixed partition, variable partition, paging, segmentation, virtual memory Assignment
3.	Sep - Oct 2025	File and Input / Output Device Management: Classification of I/O devices and I/O Handling ,file systems services, directory structure, disk storage Test
4.	Oct - Nov 2025	Shell scripting: Shell variables, parameter passing, conditional statements, iterative statements, writing and executing shell scripts, utility programs (cut, paste, grep, echo, pipe, filter, etc.) PPT PRESENTATION

References:

- [1] A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 9th Edition, John Wiley Publications.(INTERNATIONAL EDITION PRINTED IN USA)
- [2] A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 9th Edition, John Wiley Publications.(2016 INDIAN EDITION PRINTED IN INDIA)
- [3] Unix: Concepts and Applications, Sumitabha Das, TMH, 4th Edition, 2009.