PT. CHIRANJI LAL SHARMA GOVT. COLLEGE, KARNAL
DEPARTMENT OF COMPUTER SCIENCE
LESSON PLAN

Name: Mrs. Neetu kawatra

Subject: Concept of operating system   **Course Code: B23-CAP-203**
Class : BCA. First Year (NEP)   **Semester: 2nd Sem.**

Week	Date	Topics To Be Covered
1	15.02.2024 to 17.02.2024	**Unit – I** Introductory Concepts: Operating System, Functions and Characteristics, Historical Evolution of Operating Systems, Operating System Structure
2	22.02.2024 to 24.02.2024	Types of Operating System: Real-time, Multiprogramming, Multiprocessing, Batch processing. Operating System Services, Operating System Interface, Service System Calls, and System Programs.
3	29.02.2024 to 02.03.2024	Process Management: Process Concepts, Operations on Processes, Process States, and Process Control Block. Inter-Process Communication.
4	07.03.2024 to 09.03.2024	**Unit – II** CPU Scheduling: Scheduling Criteria, Levels of Scheduling, Scheduling Algorithms, Multiple Processor Scheduling, Algorithm Evaluation. **ASSIGNMENT - 1**
5	14.03.2024 to 16.03.2024	Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors. Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery.
6	04.04.2024 to 06.04.2024	**Unit – III** Memory Management Strategies: Memory Management of Single- user and Multiuser Operating Systems, Partitioning, Swapping, Contiguous Memory Allocation, Paging and Segmentation
7	11.04.2024 to 13.04.2024	Virtual Memory Management: Demand Paging, Page Replacement Algorithms, Thrashing. **ASSIGNMENT - 2**
8	18.04.2024 to 20.04.2024	**Unit – IV** Implementing File System: File System Structure, File System Implantation, File Operations, Type of Files, Directory Implementation, Allocation Methods, and Free Space Management.
9	25.04.2024 to 27.04.2024	Disk Scheduling algorithm - SSTF, Scan, C- Scan, Look, C-Look. SSD Management.