GLA University, Mathura		
<u>Learning Delivery Plan: Operating System</u>		
S.No.	Topic	Subtopic
1	Introduction+System structure+Process Management	Functions and Services
		Operating System Classification - Batch, Interactive,
		Multiprogramming, Time sharing, Real time,
		MultiProcessing, Multithreading, etc.
		System Calls
		Operating System Structure- Layered, Monolithic and
		Microkernel Systems
		Process Concept, Process States
		Process State Transition Diagram
		Process Control Block (PCB)
2	CPU Scheduling	Basic Concepts
		Scheduling Criteria
		Scheduling Algorithms
		Multiple-Processor Scheduling
3	Process Synchronization	The Critical-Section Problem
		Peterson's Solution
		Semaphores
		Classic Problems of
		Synchronization
		Inter Process Communication models and Schemes
4	Deadlock	System Model
		Deadlock Characterization
		Methods for Handling Deadlocks
		Deadlock Prevention
		Deadlock Avoidance
		Deadlock Detection
		Recovery from Deadlock
5	Memory Management	Contiguous Memory Allocation
		Paging
		Structure of the Page Table
		Segmentation
6	Virtual Memory	Demand Paging
		Page Replacement
		Thrashing
7	Storage Management	
		File System-Access Methods, Directory and Disk
		Structure, Allocation Methods, Free-Space Management
		Disk Structure
		Disk Scheduling