



Department of Information Technology		LP: IT22412
		Rev. No: 00
B.E/B.Tech/M.E/M.Tech : Information Technology	Regulation: 2022	Date: 19-01-2024
PG Specialisation : -		
Sub. Code / Sub. Name : IT22412 / Operating System Concepts Laboratory		

Session No*	List of Experiments
<b>CYCLE-I</b>	
1	UNIX commands a) Directory related commands b) File related Commands Shell Programming a) Sum of two numbers b) Factorial of a number c) Armstrong Number d) Greatest of three numbers e) Swapping two numbers f) Fibonacci Series g) Menu driven calculator h) Program using date and wc command i) Days of a Week j) Check Prime number or Not
2	Process Management using System Calls-Fork, Exit, Getpid, Wait, Close
<b>JAVA PROGRAMS</b>	
3	Implementation of Scheduling algorithms a) FCFS b) SJF c) Priority d) Round Robin
4	Implementation of Multi-threading
5	Implementation of Inter process communication.
6	Implementation of Mutual exclusion by semaphores.
7	Implement an Algorithm for Dead Lock Detection
8	Implement Bankers Algorithm for Dead Lock Avoidance




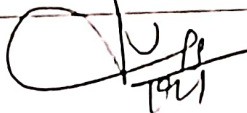
CYCLE-II	
9	Implementation of Paging Technique of memory management.
10	Implement all page replacement algorithms a) FIFO b) LRU c) LFU
11	Implementation of Various disk scheduling algorithms
12	Implement all file allocation strategies a) Sequential b) Indexed c) Linked
13	Implement all File Organization Techniques a) Single level directory b) Two level c) Hierarchical d) DAG
14	Install any guest operating system like Linux using VMware.
15	Model Examination
Content beyond syllabus (if any):	

• Session Duration: 150 minutes

\* If the same lab plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD



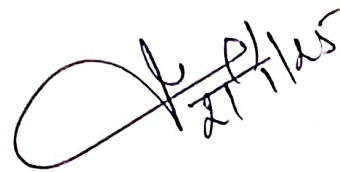
Sub Code Sub Name 1122112 Operating System Concepts Laboratory

	Prepared by	Approved by
Signature		
Name	Dr. S. Kulavathi	Dr. V. Vidhya
Designation	Assistant Professor/II	Prof & Head/IT
Date	19/01/2024	19/01/2024
Remarks*		
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It is proposed to follow the same lab plan for the academic year 2024-2025.

R. Selvi  
21/1/25

  
21/1/25