

Name of the Staff : V. Vanitha M.Sc, M.Phil.,

Hours Day order	1	2	3	lunch Pr-4	4 Pr-5	5	6
<u>I</u>		← II-M.sc →					
<u>II</u>		I-B1			III-B1		
<u>III</u>	II-pr		II-M.sc			I-B1	
<u>IV</u>		III-B1			← III CS →		
<u>V</u>	III-B1	II-M.sc			II-M.sc		
<u>VI</u>		I-B1	II-M.sc				

Total Hours ⇒ 16

Classes Handled

S.No	Class	Sub-code	Subject Title	Theory/ Practical	Hours
1	II-M.sc		Distributed Operating System	Theory	5
2	II-M.sc		Distributed Operating System	Practical	3
3	III-CS B1		Operating System	Theory	3
4	IV-CS B1		Operating System Lab	Practical	2
5	I-CS B1		Fundamentals of Computer	Theory	3

Distributed Operating Systems

Month	Topics Covered	Hours
August	Unit I : Operating System Concepts - System call - OS structure Process and Threads : Process Threads - IPC - scheduling classical IPC Problems.	20
September	Unit II : Memory abstraction - Virtual Memory - Page Replacement Algorithm - Design issues for paging - implementation issues - Segmentation . File Systems : Files Directories - File System Implementation - FSM and Optimization	20
October	Unit III : Principles of I/O Hardware - Software - I/O S/W layers Disks - clocks - User Interface - Thin clients - Power Manag. Deadlocks : Resources - Strich Algorithm - Deadlock Avoidance - Prevention - other issues .	20
November	Unit IV : Multimedia Files - Video & Audio Compression Multimedia Process scheduling - File System Paradigms File placement - caching - Disk Scheduling - Multiple Processor System : Multiprocessor - Multicomputer - Virtualization distributed system	20
	Unit V : Security Environment - Cryptography - Protection Mechanisms - Authentication - Insider Attacks - Exploiting Code Bugs - Malware - Defenses - Case study - Linux	

Distributed Operating System Lab.

Month	Topics Covered	Hours
August	<ol style="list-style-type: none"> 1. Write a Shell script: Copy, rename and Print multiple files using choice menus. 2. display logged in users who are using high CPU percentage 	12
September	<ol style="list-style-type: none"> 3. List processes based on CPU percentage and memory usage 4. Total used and free memory space. 5. Command line input a number n and a word n times, one word per time 6. While loop 	12
October	<ol style="list-style-type: none"> 6. For loop, if then else, switch 7. Using grep statement 8. sub directories of the parent directory for a given file and then quit if it finds one 	12
November	Revision	9

Operating System

Month	Topics Covered	Hours
August	Unit II CPU Scheduling Algorithm and Presentation Types of CPU scheduler - Scheduling Criteria - Scheduling Algorithms - Semaphores - classic problem of synchronization	12
September	Deadlocks - Characterization - Prevention - Avoidance - detection - Recovery, Unit III: Memory Management - Concepts of Memory Address Binding - Logical and physical address	12
October	Memory partitioning - Memory allocation - Paging - Segmentation - Protection - Fragmentation Compaction - Demand paging - Page replacement, classification of Page replacement Algorithm.	12
November	Unit IV: Unix System - A case study - Linux system case study,	12

Operating System Lab

Month	Topics Covered	Hours
August	1. Basic of Unix Commands 2. shell programming	8
September	3. CPU Scheduling Algorithms. a) Round Robin b) SJF c) FCFC d) Priority	8
October	4. File Allocation strategies a) Sequential b) Indexed c) Linked	8
November	5. Implement Semaphores.	8

Fundamentals of Computer

Month	Topics Covered	Hours
August	Unit I: Introduction - Types of Computer - characteristics of Computer. Generations of Computer: First Generation, Second, Third, Fourth and Fifth Generation	12
September	Classification of Digital Computer: Microcomputers, Personal Computer - Portable Computer - Mini Computer, Super Computer - Main Frames. Unit II: Introduction - Keyboard - Mouse - Types of Mouse	12
October	Connections - Mouse pad - Trackball - Joystick - Digitizing Tablet - Scanners - Digital Camera - MICR - OMR - OMR - Bar Code Reader - Speech Input device - Touch screen - Touch Pad - Light Pen - Output devices; Introduction - Monitor - classification of Monitor - Monochrome - Gray scale - color - Digital Monitor - Analog Monitor - characteristics of Monitor - Printers.	12
November	Unit III: Introduction - OS - Utilities - Compiler and Interpreter - Word Processor - Spreadsheets - Presentation Graphics - DBMS - Programming Language: Machine Language - Assembly Language - High level Language - Types - Data Processing: Data vs info. File Processing - Sequential File Processing - Direct Access File Processing.	12

04.08.22 - 06.08.22

Date	Day/Order	Class/Hours	Topics Covered
04.08.22	<u>I</u>	<u>II</u> - M.Sc 1, 2, 3	Syllabus given (Central valuation)
05.08.22	<u>II</u>	<u>I</u> - B1 2 <u>III</u> - B1 / 4	Preparation for I year class (Central valuation)
06.08.22	<u>III</u>	<u>II</u> - M.Sc / 1 <u>II</u> - M.Sc / 3 <u>I</u> - B1 / 5	Operating system concepts system calls. (Central valuation)

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08.08.22 - 12.08.22

Date	Day/Order	Class/How	Topic Covered
08.08.22	<u>I</u>	II / MSc / 2/3/4	Lab Exercise
09.08.22	<u>II</u>	I B1 / 2 III B1 / 4	Moharam Holiday
10.08.22	<u>III</u>	II MSc / 1 II MSc / 3 I B1 / 5	ON Duty Central paper valuation
11.08.22	<u>IV</u>	III B1 III B1 / 4/5	cpu scheduling Algorithm Lab Exercise
12.08.22	<u>V</u>	III B1 / 1 II MSc / 2 II MSc / 4	Presentation OS structure Process

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15.08.22 - 19.08.22

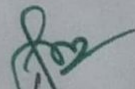
Date	Day order	class/Hours	Topics covered
15.08.22	<u>I</u>	<u>II</u> MSc/2/3/4	Independence Day Holiday
16.08.22	<u>II</u>	<u>I</u> B ₁ / 2	Preparation
		<u>III</u> B ₁ / 4	CPU scheduler
17.08.22	<u>III</u>	<u>II</u> MSc / 1	Process and threads
		<u>II</u> MSc / 3	IPC
		<u>I</u> B ₁ / 5	Preparation
18.08.22	<u>IV</u>	<u>III</u> B ₁	scheduling criteria
		<u>III</u> B ₁ / 4, 5	Lab Exercise
19.08.22	<u>V</u>	<u>III</u> B ₁ / 1 <u>II</u> MSc / 2 <u>II</u> MSc / 4	Keishma Jeyanthi Holiday

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Date	Day order	class / Hour	Topics Covered
22.08.22	<u>I</u>	II M.Sc 2, 3, 4	Lab Exercise
23.08.22	<u>II</u>	I B ₁ / 2 III B ₁ / 4	CPU Burst First come First serve
24.08.22	<u>III</u>	II M.Sc / 1 II M.Sc / 3 I B ₁ / 5	Scheduling classical IPC Problems CPU Scheduling
25.08.22	<u>IV</u>	III B ₁ / 2 III B ₁ / 4, 5	Round Robin scheduling Lab Exercise
26.08.22	<u>V</u>	III B ₁ / 1 II - M.Sc / 2 II - M.Sc / 4	Time Scheduling Memory abstraction Virtual Memory
27.08.22	<u>VI</u>	I B ₁ / 2 II M.Sc / 3	CPU burst Page Replacement Algorithm

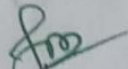
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29.08.22 - 03.9.22

Date	Day order	Class/Time	Topics Covered
29.08.22	<u>I</u>	II-Mbc 2:30-4	CL
30.08.22	<u>II</u>	I-S/12 III-B1/4	CL
31.08.22			Vinayagar Chathuthi
01.9.22	<u>III</u>	II-Hbc/1 II-Hbc/3 I-S/15	Design issues for Paging Implementation issues Introduction Fundamentals of Computer
02.9.22	<u>IV</u>	III-B1/12 III-B1/4/5	Scheduling Algorithms Lab Exercise
03.9.22	<u>V</u>		Holiday

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5/9/22

5.9.22 to 10.9.22

Date	Day Order	Class/Hours	Topics covered
5.9.22	<u>V</u>	IV B ₁ / II M.bc / 3/4	I - Internal Examination OD script Certificate Received in Makotamate college
6.9.22	<u>VI</u>	II - M.bc 2, 3, 4	I - Internal Examination
07.9.22	<u>I</u>	I B ₁ / 2 III B ₁ / 4	I - Internal Examination Scheduling
08.9.22	<u>II</u>	II - M.bc / 1 II - M.bc / 3 I - B ₁ / 5	} I - Internal Examination History of computer
09.9.22	<u>III</u>	II - M.bc / 1 II - M.bc / 3 I - B ₁ / 5	I - Internal Examination Fundamentals of computer
10.9.22	<u>IV</u>	III B ₁ / 1 II - M.bc / 2	I - Internal Examination

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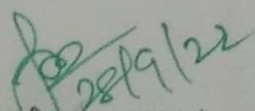
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12.9.22 to 16.9.22

Date	Day order	Class / Hour	Topics Covered
12.9.22	<u>V</u>	<u>VI</u> B ₁ / 1 <u>II</u> M.bc / 2, 4	CPU Burst Process & threads
13.9.22	<u>VI</u>	<u>I</u> B ₁ / 2 <u>II</u> M.bc / 3	Sums in Binary, octal, decimal. threads
14.9.22	<u>I</u>	<u>II</u> - M.bc 2, 3, 4	Lab Exercise
15.9.22	<u>II</u>	<u>I</u> B ₁ / 2 <u>III</u> - B ₁ / 4	Sums, octal, Hexadecimal Test (First in First come scheduling)
16.9.22	<u>III</u>	<u>II</u> - M.bc / 1 <u>II</u> - M.bc / 3 <u>I</u> - B ₁ / 5	Threads Implementation Test (Threads) Sums Revision

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19.9.22 to 23.9.22

Date	Day Order	Class/ Hour	Topics Covered
19.9.22	<u>IV</u>	<u>III</u> B ₁ / 2 <u>III</u> B ₁ / 4,5	Deadlocks Lab Exercise
20.9.22	<u>V</u>	<u>III</u> B ₁ / 1 <u>II</u> - M.b.c / 2 <u>II</u> - M.b.c / 4	Deadlocks Prevention Memory allocation Test [Scheduling]
21.9.22	<u>VI</u>	<u>I</u> - B ₁ / 2 <u>II</u> - M.b.c / 3	Admission Duty Nil
22.9.22	<u>I</u>	<u>II</u> - M.b.c / 2,3,4	Admission Duty
23.9.22	<u>II</u>	<u>I</u> B ₁ / 2 <u>III</u> B ₁ / 4	Sums [Revision] Deadlock Avoidance

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26.9.22 to 1.9.22

Date	Day order	class/ Hour	Topics Covered
26.9.22	<u>III</u>	II - M.bc/1 II - M.bc/3 I - B1/5	Page Replacement Algorithm Design paging Microcomputers
27.9.22	<u>IV</u>	III - B1/2 III B1/4+5	Address Binding Lab Exercise
28.9.22	<u>V</u>	III B1/1 II - M.Sc/2 II - M.bc/4	Logical Address implementation issues Test (Paging)
29.9.22	<u>VI</u>	I - B1/2 II - M.Sc/3	Personal computers File system
30.9.22	<u>I</u>	II - M.bc/2,3,4	Lab Exercise
1.10.22	<u>II</u>	I - B1/2 II - M.bc/3	Portable computer File Directories

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3.10.22 to 8.10.22

Date	Day order	Class/ Hour	Topics Covered
3.10.22 to 5.10.22			Pooja Holidays
6.10.22	<u>III</u>	II/M.sc / 1 II/M.sc / 3 I/BI / 5	Files system implementation FSM Mini & super computer
7.10.22	<u>IV</u>	III B1 / 2 III B1 / 1, 2, 3	Physical Address Lab Exercise
8.10.22	<u>V</u>	III B1 / 1 II M.sc / 2 II M.sc / 4	Memory partitioning Optimization Files (Revision)

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10.10.22 to 15.10.22

Date	Day order	class/ Hour	Topics Covered
10.10.22	<u>VI</u>	I B ₁ / 2 II - M.b / 3	II - Internal Examination
11.10.22	<u>I</u>	II M.b / 1, 2, 3	II - Internal Examination
12.10.22	<u>II</u>	I B ₁ / 2 III B ₁ / 4	II - Internal Examination Revision
13.10.22	<u>III</u>	II - M.b / 1 II - M.b / 3 I - B ₁ / 5	II - Internal Examination Revision
14.10.22	<u>IV</u>	III - B ₁ / 2 III B ₁ / 4, 5	II - Internal Examination Lab Exercise
15.10.22			Saturday Holiday

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17.10.22 - 22.10.22

Date	Day Order	class/ Hour	Topics Covered
17.10.22	<u>V</u>	III B ₁ / 1 II M.sc / 2 II - M.sc / 4	Revision Revision II - Internal Examination
18.10.22	<u>VI</u>	I B ₁ / 2 II M.sc / 3	Input devices II - Internal Examination
19.10.22	<u>I</u>	II - M.sc 2, 3, 4	CL Alter to R. Kothari
20.10.22	<u>II</u>	I B ₁ / 2 III B ₁ / 4	Input devices Deadlock
21.10.22	<u>III</u>	II - M.sc 1, 3 I B ₁ / 5	Admission Duty Alter → R. Kothari → A. Deivapiya
22.10.22	<u>IV</u>	III B ₁ / 2	Deadlock presentation

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25.10.22 - 29.10.22

Date	Day order	class / Hour	Topics covered
24.10.22 25.10.22			Deepawali Holidays
26.10.22	✓	<u>III</u> B ₁ / 1 <u>II</u> M.bc / 2 <u>II</u> M.bc / 4	Deadlock Avoidance NPTEL Revision NPTEL Revision
27.10.22	<u>VI</u>	<u>I</u> B ₁ / 2 <u>II</u> M.bc / 3	Test NPTEL Revision
28.10.22	<u>I</u>	<u>II</u> / M.bc / 2,3,4	NPTEL Examination
29.10.22	<u>II</u>	<u>I</u> B ₁ / 2 <u>III</u> B ₁ / 1	output devices file system

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Date	Day Order	class/Hours	Topics Covered
13.10.22	<u>III</u>	II M.bc / 1 II M.bc / 3 I B ₁ / 5	S/w and H/w Disks, clocks, Interfaces
1.11.22	<u>IV</u>	III B ₁ / 2 III B ₁ / A, 5	Unix - case study Lab Exercise
2.11.22	<u>V</u>	III B ₁ / 1 II M.bc / 2 II M.bc / 4	Deadlocks, Avoidance, Prevention - other issues
3.11.22	<u>VI</u>	.T	Holiday due to rain
4.11.22	<u>VI</u>	I - B ₁ / 2 II - M.bc / 3	Linux - case study Seminar (Multimedia)
5.11.22	<u>I</u>	II M.bc / 2, 3, 4	Model Exam

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07.11.22 - 11.11.22

Date	Day order	class/ Hour	Topics Covered
07.11.22	<u>II</u>	I B ₁ / 2 III B ₁ / 4	Revision (sums) Revision
08.11.22	<u>III</u>	II M.b.c / 1,3 I - B ₁ / 5	Model Exam Output devices
09.11.22	<u>IV</u>	III B ₁ / 1 II - M.b.c / 2,4	Model Exam Process scheduling
10.11.22	<u>V</u>	III B ₁ / 1 II - M.b.c / 2,4	Model Exam Multi processor.
11.11.22			Holiday due to rain
12.12.22			Holiday due to rain

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14.11.22 - 19.11.22

Date	Day order	Class / Hour	Topics Covered
14.11.22	<u>V</u>	I B ₁ / 2 II M.b.c / 3	Revision Security Environment
15.11.22	<u>I</u>	II M.b.c / 2, 3, 4	Model practical
16.11.22	<u>II</u>		University practical Exam
17.11.22	<u>III</u>		University practical Exam
18.11.22	<u>IV</u>		University practical Exam
19.11.22	<u>V</u>	I B ₁ / 2 II M.b.c / 3	Revision Seminar

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21.11.22 - 26.11.22

Date	Day order	class / Hour	Topics covered
21.11.22	<u>VI</u>	<u>I</u> - B ₁ / 2 <u>II</u> - M.bc / 3	Practical External Examiner
22.11.22	<u>I</u>	<u>II</u> - M.bc / 2, 3, 4	Practical External Examiner
23.11.22	<u>II</u>	<u>I</u> - B ₁ / 2 <u>III</u> B ₁ / 4	Revision Practical External Examiner
24.11.22	<u>III</u>	<u>II</u> - M.bc / 1, 3 <u>I</u> - B ₁ / 5	Practical External Examiner
25.11.22	<u>IV</u>	<u>III</u> B ₁ / 1 <u>III</u> B ₁ / 4, 5	Practical Examiner
26.11.22	<u>V</u>		Holiday

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Date	Day order	Class / Hours	Topic Covered
28.11.22	<u>IV</u>	III B ₁ / 1 II - M.BC / 2, 4	- Revision
29.11.22	<u>VI</u>	I - B ₁ / 2 II - M.S. / 3	Revision Revision
30.11.22	<u>I</u>	II - M.BC / 2, 3, 4	Revision
01.12.22	<u>II</u>	I B ₁ / 2 IV B ₁ / 4	Revision -
02.12.22	<u>III</u>	II - M.BC / 1, 3 I - B ₁ / 5	Revision Revision
03.12.22			Holiday

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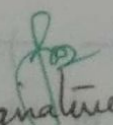


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05-12-22 - 10-12-22

Date	Day order	Class / Hour	Topic Covered
05.12.22	<u>IV</u>	<u>III</u> B ₁ / 2 <u>III</u> B ₂ / 4, 5	- -
06.12.22	<u>V</u>	-	CL
07.12.22	<u>VI</u>	<u>I</u> B ₁ / 2 <u>II</u> - M.b.c / 3	Revision Revision
08.12.22	<u>I</u>	<u>II</u> - M.b.c / 2, 3, 4	Revision
09.12.22 to 10.12.22			Holiday due to rain

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12.12.22 to 17.12.22

Date	Day order	class/Hours	Topic Covered
12.12.22	<u>II</u>	<u>II</u> / 2	Revision
13.12.22	<u>III</u>	<u>I</u> / 5	Revision
14.12.22	<u>IV</u>	-	University Exam
15.12.22	<u>V</u>	-	University Exam
16.12.22	<u>VI</u>	<u>II</u> / 2	Revision
17.12.22	<u>I</u>	-	University Exam

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17.12.22 to 5.1.23

Date	Day Order	Class/Hours	Topics Covered
17.12.22 to 31.12.22			<u>II</u> & <u>III</u> U6 & <u>II</u> P6 University Examinations
2.01.23	<u>I</u>	-	<u>I</u> year Model Exam
3.01.23	<u>II</u>	<u>I</u> B _{1/2}	<u>I</u> year Model Exam
4.01.23	<u>III</u>	<u>I</u> B _{1/5}	<u>I</u> year Model Exam
5.01.23	<u>IV</u>	-	<u>I</u> year Model Exam

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