

Operating System

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Outline

- What is Operating System?
- Course Outcome
- Syllabus

What is Operating System?

- A Computer System consists of various hardware's such as



Processor



RAM



Keyboard & Mouse



Hard Disk



Monitor



Printer

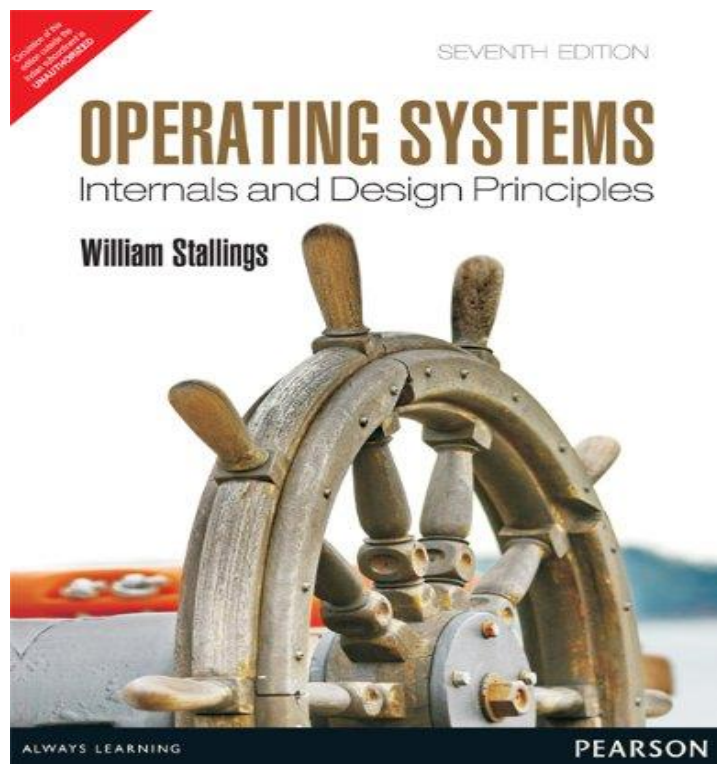
- Who manages (controls) these hardware's?

Course Outcomes

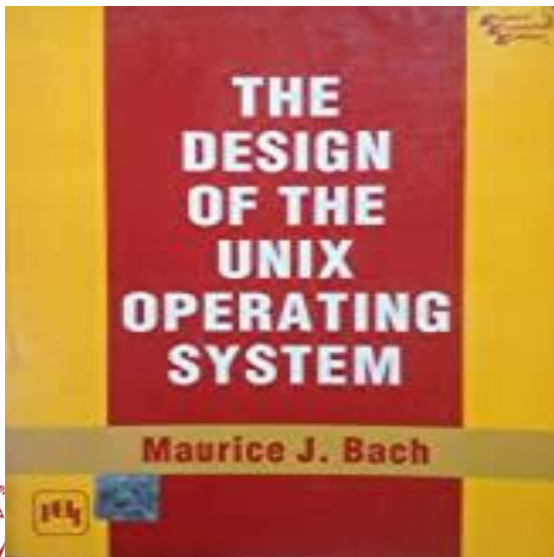
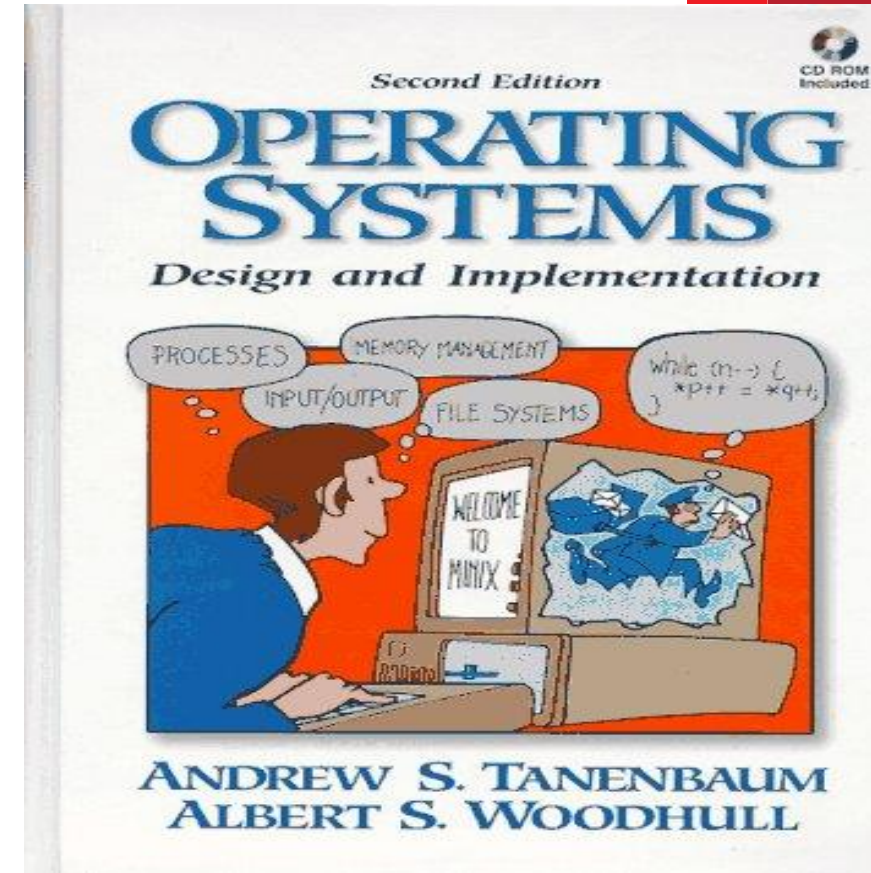
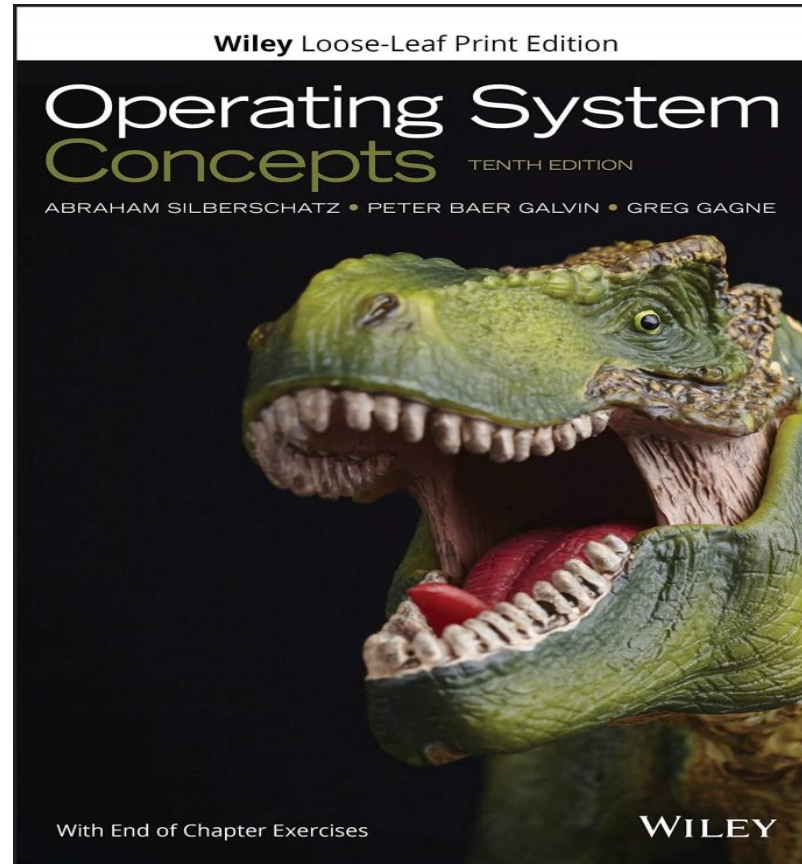
1. Identify the different system programs and their utility and Explain the fundamental concepts of operating system with extension to Unix and Mobile OS
2. Illustrate and analyze the Process, threads, process scheduling and thread scheduling
3. Describe the problems related to process concurrency and the different synchronization mechanisms available to solve them.
4. Explain disk organization and file system structure with illustration of disk scheduling algorithms
5. Understand Storage management with allocation, segmentation & virtual memory concepts

Syllabus

- Introduction to system software
- Process concept and Scheduling
- Process concurrency
- Input-output and file management
- Storage management



Reference Text Books



Experiment Assessment Rubric

Criteria	Excellent(E)	Good(G)	Average(A)	Poor(P)
Timely execution (5)	The program was shown on the same day of lab session.(4-5)	The program was shown within same week of the lab. (3)	The program was shown within 2 weeks of the lab (2)	The program was shown more than 2 weeks of the lab. (0-1)
Write ups (5) - Post lab questions - Timely submission	Post lab questions Timely submission (4-5)	Post lab questions fairly answered. Write up submitted one day after deadline (3)	Post lab questions are not answered Write up submitted two day after deadline(1-2)	Write up not submitted . (0)
Implementation /Individual performance (15)	Active participation with Originality (13-15)	Partial participation with the knowledge of implementation. (11-12)	Partial participation without any knowledge. (5-10)	No active participation. (0-4)

Evaluation Scheme

- Number of credits – 04 (TH – 03 , PR – 01)
- Term Test/ISE – 30 marks
- Internal Assessment – 20 marks
- End Sem. Exam – 100 converted to 50 marks
- TW - 25
- OR - 25

Evaluation Scheme

- Term work – 25 marks
- Prac/Oral – 25 marks

Course Code	Course Title						
116U01L503	Operating System Lab.						
	TH		P		TUT	Total	
Teaching Scheme(Hrs.)	-		02		-	02	
Credits Assigned	-		01		-	01	
Examination Scheme	Marks						
	CA		ESE	TW	O	P&O	Total
	ISE	IA					
	--	--	--	25	--	--	25

Contact

- Days – Monday, Wednesday – Friday
- Time – 9.30 – 5.15
- Room No – B217
- Mobile No – 9769796863
- Email – nirmalashinde@somaiya.edu

Question ?