

CPCS-462 Syllabus

Catalog Description

CPCS-462 Operating Systems (II)
Credit: 3 (Theory: 3, Lab: 0, Practical: 0)
Prerequisite: CPCS-361
Classification: Elective

The objective of this course is to familiarize students with the modern alternative operating models such as distributed processing, parallel processing, and real-time processing. Topics include virtual memory, thread scheduling, Security systems and their requirements, shared security systems, performance quality, system reliability, system failure, pre-failure warning, and system recovery.

Class Schedule

Meet 50 minutes 3 times/week or 80 minutes 2 times/week
 Lab/Tutorial 90 minutes 1 times/week

Textbook

Grade Distribution

Week	Assessment	Grade %
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Topics Coverage Durations

Topics	Weeks
Virtual memory	1
Thread scheduling	2
Distributed, parallel and real-time processing	2
Security systems and their requirements	1
Shared security systems	3
Performance quality and system reliability	2
System failure	1
Pre-failure warning	1
System recovery	1

Last Articulated

Relationship to Student Outcomes

a	b	c	d	e	f	g	h	i	j	k
x	x	x								

Course Learning Outcomes (CLO)

By completion of the course the students should be able to

1. To be familiar with modern operating systems. ()
2. To know the requirements of real-time operating systems. ()
3. To know the requirements of distributed and parallel operating systems. ()
4. To be able to measure system performance. ()
5. To be able to optimize and improve system performance. ()
6. To know how to protect operating systems. ()
7. To know how to perform system recovery. ()

Coordinator(s)