CPCS-464 Syllabus

Catalog Description

CPCS-464 Dependable Computing
Credit: 3 (Theory: 3, Lab: 0, Practical: 0)
Prerequisite: CPCS-463
Classification: Elective

The objective of this course is to acquaint students with the high-reliability computer systems used in fault intolerant critical applications. Topics include computing systems security, applications that require high-quality computer systems, mobile client system, various security protocols, multi-distribution system, breach discovery and prevention, wireless networks reliability measurement, and ensuring the quality of service.

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 %

Topics Coverage Durations

Topics	Weeks
Introduction to computing systems security	2
Applications that require high-quality computer systems	2
Mobile client system	2
Security protocols	2
Multi-distribution system	2
Breach discovery and prevention	2
Wireless networks reliability measurement	1
Ensuring the quality of service	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 understand the requirements of software systems. ()
2. To understand the concept of dependability. ()
3. To be familiar with the criteria for dependability. ()
4. To be familiar with the criteria for dependable hardware. ()
5. To be familiar with the criteria for dependable software. ()
6. To be able to determine the significance of dependability for various applications. ()

Coordinator(s)