

CPCS-466 Syllabus

Catalog Description

CPCS-466 Systems Programming

Credit: 3 (Theory: 3, Lab: 0, Practical: 0)

Prerequisite: CPCS-361

Classification: Elective

The objective of this course is to explore the design, development, and operation of system applications. Topics include the difference between system software and application software in terms of development features and area of application, file systems, permanent and temporary storage systems, assembly compiler, high-level languages, application setup, memory management system, and processes carried out under the operating systems.

Class Schedule

Meet 50 minutes 3 times/week or 80 minutes 2 times/week

Lab/Tutorial 90 minutes 1 times/week

Textbook

Hart, Johnson M., , "Windows system programming", Addison-Wesley; 4 edition (2010)

ISBN-13 9780321657749

ISBN-10 0321657748

Grade Distribution

Week	Assessment	Grade %
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Topics Coverage Durations

Topics	Weeks
Difference between system software and application software in terms of development features and area of application	2
File systems	2
How to manipulate with file systems?	1
System call	1
Permanent and temporary storage systems	2
Assembly compiler	1
High-level languages compiles	1
Application setup	1
Memory management system and processes carried out under the operating systems	2
Service provider	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 know system applications. ()
2. To be able to identify system applications. ()
3. To understand the relationship between hardware and software. ()
4. To be familiar with the methods of programming certain components of the operating system. ()
5. To be familiar with the methods of building compilers. ()

Coordinator(s)