CPCS-404 Syllabus

Catalog Description

CPCS-404 Component-Based Computing
Credit: 3 (Theory: 3, Lab: 0, Practical: 0)
Prerequisite: CPCS-351
Classification: Elective

The objective of this course is to familiarize students with Component-Based Computing. Topics include component fundamentals, rationale of using component-based computing, and their standard criteria. The course also focuses on recent researches and techniques related to component-based computing. Moreover, it covers issues related to the component-based technology, the various tools of component-based computing, and the future of component-based computing.

Class Schedule

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

Lab/Tutorial 90 minutes 1 times/week

Textbook

Gary T. Leavens, Murali Sitaraman, , "Foundations of Component-Based Systems", Cambridge University Press;(2000-03-28)

ISBN-13 9780521771641 **ISBN-10** 0521771641

Grade Distribution

Week	Assessment	Grade %

Topics Coverage Durations

Topics	Weeks
Rationale of using component-based computing and their standard criteria	1
Components fundamentals	2
Recent researches related to component-based computing	2
Recent techniques used in component-based computing	2
Issues related to the component-based technology	2
Estimating the production cost	2
Various tools of component-based computing	2
The future of component-based computing	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 the latest advances in the field of Component-Based Computing. ()
2. To know the different considerations of using the component software applications and their standards. ()
3. To understand the technological issues related to Component-Based Computing. ()
4. To be familiar with the tools, platforms used with the Component-Based Computing such as DCOM, COBRA and .NET). ()

Coordinator(s)