CPIS-498 Syllabus

Catalog Description

CPIS-498 Senior Project (I)
Credit: 1 (Theory: 1, Lab: 0, Practical: 0)
Prerequisite: None
Classification: Department Required

This course is the first part of a sequence of two courses that constitute the graduation capstone project. In this part, the student is expected to propose, analyze, and design a software system or conduct a thorough investigation of a particular IS-related problem for research-based projects. The student will deliver oral presentations and written reports.

Class Schedule

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

Meet 60 minutes 1 times/week

Textbook

Grade Distribution

Week	Assessment	Grade %
1	Write Use case Description or DFD fragme	2
1	Develop State Machine diagrams or other t	2
1	Develop System sequance diagrams or Dat	2
1	Develop Activity Diagrams or Process des	2
3	Develop project schedule using Gantt char	2
4	Develop event, use cases, and event table	2
5	Develop project functional and nonfunctio	2
7	Develop Class diagram or Entity Relations	4
8	Develop Use case Diagram or Context diag	2

Last Articulated

Relationship to Student Outcomes

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

Course Learning Outcomes (CLO)

By completion of the course the students should be able to

1. Choose a project domain and title
2. Prepare a project proposal and choose the supervisor
3. Explain the purpose and various phases of the systems development life cycle (SDLC)?
4. Describe the two overall approaches used to develop information systems: the traditional method and the object-oriented method
5. Explain the elements of project team management and the responsibilities of a project manager
6. Explain project initiation and the activities in the project planning phase of the SDLC
7. Describe how the scope of the new system is determined
8. Develop a project schedule using Gantt charts
9. Describe the activities of systems analysis
10. Gather project information
11. Explain the difference between functional and nonfunctional system requirements
12. Develop Event, Usecases, and Event Table
13. Develop project functional and nonfunctional system requirements
14. Develop Use case Diagram
15. Explain how the traditional approach and the object-oriented approach differ when modeling the details of a use case
16. Write brief, intermediate, and fully developed use case descriptions
17. Identify and analyze data entities and domain classes needed in the system
18. Describe the activities of systems design

Coordinator(s)

Dr. Alaa Khadidos, Associate Professor

CPIS-498 Syllabus

Topics Coverage Durations

Topics	Weeks
Introduction to Project	1
Choosing Project	1
Project Planning	1
Literature reviews	1
Risk Management	1
Referencing and Avoiding Plagiarism	1
Software Development Life Cycle	1
Prototype	1
Writing Proposal	1
Conducting Project	1
Presenting Project in Written Form	1
Design	1
Gathering Information Techniques	1
Analysis	1