# CPIT-499 Syllabus

## Catalog Description

**CPIT-499** Senior Project (II)
**Credit:** 3 ( Theory: 3, Lab: 0, Practical: 2)
**Prerequisite:** CPIT-498
**Classification:** Department Required

This course is the second part of a sequence of two courses that constitute the graduation capstone project. This course aims to execute what was presented in CPIT-498 – the student's present two reports and two presentations of graduation project. The courses topics cover detail design, coding, testing, and implementation of the project.

**Class Schedule**

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

## Grade Distribution

| Week | Assessment | Grade % |
|---|---|---|
| 7 | Group Project 1 | 10 |
| 8 | Group Project 2 | 10 |
| 9 | Formal Presentation 1 | 10 |
| 14 | Group Project 3 | 15 |
| 14 | Lab Exam | 10 |
| 15 | Formal Presentation 2 | 30 |
| 15 | Group Project 4 | 15 |

## Topics Coverage Durations

| Topics | Weeks |
|---|---|
| Introduction | 1 |
| Software Version Management | 1 |
| Rubric Explanation | 2 |
| Software Testing | 1 |
| Technical Coverage | 2 |

## Last Articulated

March 1, 2017

## Relationship to Student Outcomes

| a | b | c | d | e | f | g | h | i | j | k | l | m | n |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| x | x | x | x | 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. Apply mathematical and scientific knowledge and skills
2. Produce a complete and final design of the system based on software engineering and implementation aspects
3. Implement the design and produce a working system
4. **Use various software engineering and appropriate development tools**
5. Learn new knowledge and skills required to realize the project in an independent way through the guidance of the supervisor
6. **Apply core knowledge areas of Information Technology such as programming, database, Human Computer Interaction, Networking and Security etc**
7. Apply testing concepts and techniques to the system
8. **Critically evaluate and troubleshoot the implementation of the project**
9. **Capable to deliver his project work through presentations and code demonstrations**
10. Present a suitable documentation of the project work
11. Work independently and in a team
12. Observe ethical behavior throughout of project work
13. **Demonstrate a level of effectiveness expected by employers when he produces written documents, delivers oral presentations, and develops, prepares and interprets visual information.**

## Coordinator(s)

Dr. Mohamed Buhari, Associate Professor