Course Name	Final Project		Course Code	495 COMP-3	
Credit Hour	3	Contact Hours	Lecture	Lab	Total
			1	2	3
Track	☐ University Requirement ☐ College Requirement ☒ Program Requirement		☒ Required ☐ Elective		
Offered in	☒ BS- Computer Science ☐ BS- Information System ☐ BS- Computer & Network Engineering				
Level	10	Prerequisites	None		

Course Description:

This is a capstone course emphasizes team collaboration and application of modern software engineering approaches to software construction. The development by each team of an original, industry strength software product is the main objective of the course. The instructors will present lectures on the Unified Modeling Language (UML) and its application to object-oriented analysis and design and the teams will report on their project's progress by giving presentations and submitting deliverables related to the project. The teams will deliver and present project parts at the following stages: topic proposal (concept), software specification (requirements), design (model), and implemented software (final product). At the end of the semester, there will be a final Project presentation where students will demonstrate and presentation the outcome and findings of the project work.

Course Objectives:

1. Re-traverse the knowledge gained during the whole B.S. (Computer Science) course that is useful for analyzing and understanding the software development process.
2. Explain the applicability of this knowledge to develop an industry level capstone project that uses all these knowledge gained throughout the B.S. program.
3. Practically demonstrate the steps involved in the software project development.
4. Help the students in gaining the insight about the software industry working.

Grading	☒ Mid Term ☒ Exam	20 %	☒ Pre ☒ Presentation	40%	☒ Final ☒ presentation	40 %
	Assignment 2 / Case studies	10%	Lab Exam	20%	Final	40 %

Textbook:

- Required: Fundamentals of Software Engineering, Ian Somerville, Pearson Publications, 10th Edition, 2015, ISBN-13: 978-0133943030.
- UML 2 and the Unified Process: Practical Object-Oriented Analysis and Design, Jim Arlow, Ila Neustadt, Addison-Wesley publisher, 2nd Edition, 2005, ISBN13: 9780321321275.
- Modern System Analysis and Design, Jeffrey Hoffer, Joey George, and Joseph Valacich, Pearson Publisher, 7th edition , 2013, ISBN-13: 978-0132991308.

Reference Books:

- Reference materials are suggested by Project Supervisors and Project Advisors on the basis of nature of project and requirement.