Module Title:	Project (2)
Module ID:	CAP 497
Prerequisite:	CAP 496
Level:	8
Credit Hours:	4 (2+4+0)

Module Description:

In this course, each group will continue developing the software systems started in CAP 496. Each group must use a particular tool to implement its system in a good programming practice. This implementation tool is preferably new –i.e. not taken in previous courses. Furthermore, students must generate a user manual for their information system in an appropriate format. At the end of the term, each group must submit a final report, which documents completely the information system from the problem definition phase to the implementation phase and contains a user manual for the information system. Teamwork, leadership, communication and writing skills are all important ingredients for a successful project.

Module Aims:

- The course enables students to demonstrate their theoretical knowledge and professional skills.
- An ability to design and conduct experiments, as well as to analyze and interpret data.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to function on multidisciplinary teams.
- An understanding of professional and ethical responsibility.
- An ability to communicate effectively.
- The broad education necessary to understand the impact of information systems in a global, economic, environmental, and societal context.
- A recognition of the need for, and an ability to engage in life-long learning.

- A knowledge of contemporary issues.

Learning Outcomes:

- An ability to apply knowledge of computing and mathematics appropriate to the discipline
- An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- An ability to use current techniques, skills, and tools necessary for computing practice.
- An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
- An ability to analyze the local and global impact of computing on individuals, organizations, and society
- An ability to function effectively on teams to accomplish a common goal
- An understanding of professional, ethical, legal, security and social issues and responsibilities
- Recognition of the need for and an ability to engage in continuing professional development
- An ability to communicate effectively with a range of audiences

Textbook:

None