



Course Specifications

Muharram 1437 H

Institution:	Majmaah University
Academic Department :	Department of Computer Science and Information
Programme :	Computer Science and Information Technology
Course :	Capstone Project 1
Course Coordinator :	Assoc. Prof. Hassan Aly
Programme Coordinator :	
Course Specification Approved Date :	.... / ... / ..... H



A. Course Identification and General Information

1 - Course title :	Capstone Project 1	Course Code:	CSI 510
2. Credit hours :	2 credit hours (6 hours Labs)		
3 - Program(s) in which the course is offered:	Computer Science and Information Technology		
4 – Course Language :	English		
5 - Name of faculty member responsible for the course:	Dr. Hassan Aly		
6 - Level/year at which this course is offered :	9 th level		
7 - Pre-requisites for this course (if any) :	<ul style="list-style-type: none"> The student has to finish 120 Cr. Hrs. before applying for Capstone Project 1. 		
8 - Co-requisites for this course (if any) :	<ul style="list-style-type: none"> N/A 		
9 - Location if not on main campus :	(College of Science at AzZulfi)		
10 - Mode of Instruction (mark all that apply)			
A - Traditional classroom	<input type="checkbox"/>	What percentage? %
B - Blended (traditional and online)	<input type="checkbox"/>	What percentage? %
D - e-learning	<input checked="" type="checkbox"/>	What percentage?	20 %
E - Correspondence	<input type="checkbox"/>	What percentage? %
F - Other	<input type="checkbox"/>	What percentage?	80 %
Comments :	<p>The mode of instruction depends mainly on the discussion between the supervisor and the student. The student will present his achievements to the board of the project one time a month. In the first presentation, the board will inform him and his supervisor if they accept the idea of the project. The final presentation looks like a defense from the student to his project and will receive questions from the board and also from the audience. Traditionally, the college announces on the day of such presentation for all faculties, students, and stockholders.</p> <p>During the work of the project, student will visit different places to complete his job</p> <ol style="list-style-type: none"> Will visit library to read about related topics of his project Will visit IT-companies to discuss points related to the implementation. Will visit stockholders to know the need of his product. Will visit other professors in the department to discuss points related to his final report. 		





B Objectives

What is the main purpose for this course?

The capstone project is a two-semester process in which students pursue independent research and implementation on idea of their choice to produce a product that reflects a deep understanding of their topics. Capstone projects are intended to be intensive, active learning projects, requiring significant effort in the planning and implementation, as well as preparation a substantial final written work product. These two-semester courses have a purpose to deeply learn the students the following characteristics:

1. **Originality:** The student must reach his own deep understanding of a clearly defined and focused topic.
2. **Independence:** Although the student has a capstone mentor as a guide and domain expert, he will work primarily on his own.
3. **Appropriate Scope:** The capstone projects are equivalent to a five-credit courses. Therefore, the student should plan to spend at least as much time and energy on his project as he has devoted to his most challenging courses. Therefore, he will need to keep his project within a limited and realistic scope.
4. **Orderly & Objective Process of Inquiry:** The project demonstrates his facility with the methods of inquiry. These include the ability to ask the right questions, to synthesize ideas, to identify and use evidence, to draw and support conclusions, to recognize compelling research, to communication his ideas, or to solve a problem using a specific set of tools.
5. **Intellectual stretch:** The capstone projects should take him to a place where he has not been before, and perhaps, did not even think he could reach.

During the capstone project 1, student develops proposal, and secure approval of the proposal from a faculty mentor and the capstone project board. It sets up a typical environment for the development of a detailed proposal (identify a problem domain, define the problem, identify and specify the requirements, document the current system, analyze it, propose alternative systems, and design a solution,...) for a software and hardware system project.

Briefly describe any plans for developing and improving the course that are being implemented :

C. Course Description





1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
Select the idea, make a survey of similar and related problems, and prepare the first presentation to get approval of your project from the board.	4.	8
Review literature, study solutions that have been achieved for related problems, determine the objectives of the project, examine the feasibility of your problem and prepare the second presentation to the board.	4	8
Suggest a solution of your problem, discuss it with your supervisor and friends, and prepare yourself to the third presentation to the board.	4	8
Design your solution in final form of implementation And prepare yourself to the final presentation	2	4
Final presentation	1	2

2. Course components (total contact hours and credits per semester):

	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	0	0	0	90	0	90
Credit	0	0	0	30	0	30

3. Additional private study/learning hours expected for students per week.

45





4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	Knowledge		
1.1	Define primitive points in your subject.		
1.2	Describe steps to build any scientific or applied problem		
1.3			
1.4			
2.0	Cognitive Skills		
2.1	Interpret the influence of your project to society		
2.2	Analysis the advantage and disadvantage of your solution.		
2.3			
2.4			
3.0	Interpersonal Skills & Responsibility		
3.1	Write a good scientific report on your problem.		
3.2	Examine the possibility to develop your problem.		
3.3			
3.4			
4.0	Interpersonal Skills & Responsibility		
4.1	show good oral communication skills.		
4.2			
4.3			
4.4			
4.5			
4.6			
5.0	Psychomotor		
5.1	.....	.....	.....
5.2	.....	.....	.....
5.3	.....	.....	.....





5. Schedule of Assessment Tasks for Students During the Semester:

	Assessment task	Week Due	Proportion of Total Assessment
1	Presentations	Every month	10%
2	Originality	During the work	20%
3	Scope of survey	During the work	10%
4	Oral Communications	During the work	10%
5	Submission in time (report, presentation,...)	During the work	10%
6	Final Presentation and report		40%
	Total		100%

D. Student Academic Counseling and Support

Six contact hours are assigned for discussion with supervisor.
In addition, 4 presentations will be held with the board.

E. Learning Resources

1. List Required Textbooks :

- **Based on the subject**

2. List Essential References Materials :

- **Based on the subject.**

3. List Recommended Textbooks and Reference Material :

- **Based on the subject.**

4. List Electronic Materials :

- **Based on the subject.**
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5. Other learning material :

- **Based on the subject.**





F. Facilities Required

1. Accommodation <ul style="list-style-type: none"> Library and on-line digital library.
2. Computing resources Available labs at the department.
3. Other resources <ul style="list-style-type: none">

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching: <ul style="list-style-type: none">
2 Other Strategies for Evaluation of Teaching by the Program/Department Instructor : <ul style="list-style-type: none">
3 Processes for Improvement of Teaching : <ul style="list-style-type: none">
4. Processes for Verifying Standards of Student Achievement <ul style="list-style-type: none">
5 Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement : <ul style="list-style-type: none">

Course Specification Approved

Department Official Meeting No (.....) Date ... / ... / H

Course's Coordinator

Department Head

Name :

Name :

Signature :

Signature :

Date : .../ ... / H

Date : .../ ... /

