



COURSE PLAN

FIRST: BASIC INFORMATION

College

College : University College - Balqa Applied University

Department :

Course

Course Title : Capstone Project

Course Code : 020209233

Credit Hours : 2 (0 Theoretical, 2 Practical)

Prerequisite :

Instructor

Name :

Office No. :

Tel (Ext) :

E-mail :

Office Hours :

Class Times

Text Book

References

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

This course focuses on how to choose and refine a capstone project based on feedback from faculty, peers and partner organizations. It introduces technical methods for analyzing, designing, prototyping, synthesizing, troubleshooting, and testing a project relevant to the Welding and Plumbing Technology Program. The students practice project documentation, formal design review presentations, oral defense of the project, and writing a final report.

COURSE OBJECTIVES

The objectives of this course are to enable the student to do the followings:
 Discover problems and organize the resolving process into projects
 Explain the overall process and structure of a project
 Gather and evaluate available tools and knowledge to solve a given problem
 Document and present the related information systematically



COURSE LEARNING OUTCOMES

On successful completion of this course, students are expected to be able to:

- CLO1. Define the concept of project development process
- CLO2. Explain the information gathering and idea forming process
- CLO3. Explain the procedure of project design and execution
- CLO4. Combine the theory and practice learned in the curriculum
- CLO5. Analyze and evaluate the project development
- CLO6. Develop systematic documentation and presentation skills

COURSE SYLLABUS

Week	Course Topic	Topic details	Related LO	Notes
1	Introduction to capstone project	<ul style="list-style-type: none"> • Guide how to proceed with capstone project • Form teams to carry out capstone project 	CLO1	
2	Brainstorming	<ul style="list-style-type: none"> • Conduct a study on technology flows • Discover topics for capstone project 	CLO2	
3	Brainstorming	<ul style="list-style-type: none"> • Evaluate the feasibility and suitability of the topics to be capstone project • Decide a topic for the capstone project 	CLO2	
4	Project Study	<ul style="list-style-type: none"> • Conduct a study on theoretical background for the project • Conduct a study on the components of the project 	CLO2	
5	Project Study	<ul style="list-style-type: none"> • Study and select an implementation method • Conduct preliminary tests for the components 	CLO2	
6	Project Study	<ul style="list-style-type: none"> • Identify difficulties in implementation • Create alternatives to avoid difficulties 	CLO2	
7	Project Study	<ul style="list-style-type: none"> • Decide evaluation method • Decide quantitative indicators for evaluation • Prepare a midterm presentation 	CLO2	
8	Midterm Presentation			
9	Project Implementation	<ul style="list-style-type: none"> • Design a prototype for the project • Decide implementation procedures 	CLO3	
10	Project Implementation	<ul style="list-style-type: none"> • Gather available parts and tools • Implement a prototype with available 	CLO4	
11	Project Implementation	<ul style="list-style-type: none"> • Implement a prototype • Modify the design according to the implementation environment if necessary 	CLO4	
12	Project Implementation	<ul style="list-style-type: none"> • Implement a prototype • Test and debug the prototype • Use the alternatives if necessary 	CLO4	
13	Project Implementation	<ul style="list-style-type: none"> • Find ways to improve performance 	CLO5	

Week	Course Topic	Topic details	Related LO	Notes
		<ul style="list-style-type: none"> Identify the limitations of the prototype 		
14	Project Implementation	<ul style="list-style-type: none"> Evaluate the prototype according to the indicators Measure the overall achievement 	CLO5	
15	Project Implementation	<ul style="list-style-type: none"> Prepare a demonstration Prepare a final report and presentation 	CLO6	
16	Final Presentation			

COURSE LEARNING RESOURCES

Teaching will be achieved using available resources including lectures, data show, and materials uploaded on the e-learning system.

ONLINE RESOURCES

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ASSESSMENT TOOLS

Assessment Tools	%
Projects	50%
Midterm presentation	20%
Final presentation	30%
Total Marks	100%

THIRD: COURSE RULES

ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.

GRADING SYSTEM

**Example:**

Average	Maximum	Minimum
Excellent	100%	90%
Very Good	89%	80%
Good	79%	70%
Satisfactory	69%	60%
Weak	59%	50%
Failed	49%	35%

REMARKS

{The instructor can add any comments and directives such as the attendance policy and topics related to ethics }

COURSE COORDINATOR

Course Coordinator:

Department Head:

Signature:

Signature:

Date:

Date: