COURSE PLAN

FIRST: BASIC INFORMATION

College	
College	: University College - Balqa Applied University
Department	:

Course	
Course Title	: Capstone Project
Course Code	: 020201256
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 Electric and Hybrid Vehicles Maintenance 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	• Guide how to proceed with capstone project • Form teams to carry out capstone project	CLO1	
2	Brainstorming	• Conduct a study on technology flows • Discover topics for capstone project	CLO2	
3	Brainstorming	• Evaluate the feasibility and suitability of the topics to be capstone project • Decide a topic for the capstone project	CLO2	
4	Project Study	• Conduct a study on theoretical background for the project • Conduct a study on the components of the project	CLO2	
5	Project Study	• Study and select an implementation method • Conduct preliminary tests for the components	CLO2	
6	Project Study	• Identify difficulties in implementation • Create alternatives to avoid difficulties	CLO2	
7	Project Study	• Decide evaluation method • Decide quantitative indicators for evaluation • Prepare a midterm presentation	CLO2	
8	**Midterm Presentation**			
9	Project Implementation	• Design a prototype for the project • Decide implementation procedures	CLO3	
10	Project Implementation	• Gather available parts and tools • Implement a prototype with available	CLO4	
11	Project Implementation	• Implement a prototype • Modify the design according to the implementation environment if necessary	CLO4	
12	Project Implementation	• Implement a prototype • Test and debug the prototype • Use the alternatives if necessary	CLO4	

Week	Course Topic	Topic details	Related LO	Notes
13	Project Implementation	• Find ways to improve performance • Identify the limitations of the prototype	CLO5	
14	Project Implementation	• Evaluate the prototype according to the indicators • Measure the overall achievement	CLO5	
15	Project Implementation	• 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

ASSESSMANT 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:

Grade	points
failed	0-49
passed	50-100

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:**