



**The Hashemite University
Faculty of Engineering
Civil Engineering Program
Course Syllabus**



Course Title:	Graduation Project I (1,0,0)	Course Number:	110401598
Department:	Civil Engineering	Designation:	Compulsory
Prerequisite(s):	min. of 120 credits		
Instructor:		Instructor's Office:	
Instructor:		email:	srababah@hu.edu.jo

Course description: Planning, design, construction and/or management of an engineering project that handles contemporary engineering problems under the supervision of one or more faculty members. The course allows the student to apply the knowledge attained from the various courses of the undergraduate program to prepare the proper approach of solution to his project problem.

**Course objectives
(Course Learning
Outcomes):**

Specific Outcomes of Project (Course Learning Outcomes):

1. Be familiar with the latest issues related to the project's requirements and/or perform literature review pertaining to the project work. (4)
2. Ability to identify problems, formulate a methodology and solve civil engineering problems with the constraints of time, budget etc. (2)
3. Use appropriate civil engineering codes, specifications, software and techniques required for the analysis. (1,2, 6)
4. Consider the economic, environmental, social, political, ethical, health and safety impact on the final product design. (2, 4)
5. Complete a preliminary study/design on the capstone design project. (2)
6. Make necessary presentations and reports for project review. (5, 3)
7. An understanding of professional and ethical responsibility. (4)
8. Recognition of the importance of life-long learning. (7)

Student Outcomes (SO) Addressed by the Course:

ABET 1-7	Outcome Description	Contribution
General Engineering Student Outcomes		
1	an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	H
2	an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	H
3	an ability to communicate effectively with a range of audiences	M
4	an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	L
5	an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	L
6	an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	
7	an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.	L
H=High, M= Medium, L=Low		