



The Hashemite University
Faculty of Engineering
Civil Engineering Program
Course Syllabus



Course Title:	Construction Project Management	Course Number: 110401346
Designation:		Prerequisite(s): 110401337
Instructor:	Dr. Odey Alshboul	Instructor's Email: Odey.shboul@hu.edu.jo Odey.shboul@yahoo.com
Lecture Time:	Office Hours: 11:30 – 12:30	

Course Description: Application of engineering and management control techniques to construction projects in order to satisfy project objectives in terms of time, cost, and quality. Leadership in project management, construction disputes resolution and negotiation strategies, project human resources management, value engineering and project life cycle, construction process optimization, financial accounting

Textbook(s):

- Halpin, D. W. (2011) "Construction Management" Fourth Edition, John Wiley & Sons.

Other supplemental materials

- Hinze, J. "Construction Planning and Scheduling", 4th Edition, Prentice Hall, 2012
- Jackson, B. J., "Construction management – Jump Start", Wiley Publishing Inc., 2nd Edition, 2010.
- Hendrickson, C. "Project Management for Construction", second edition, 2008.
<http://pmbook.ce.cmu.edu/>
- Gould, F., and Joyce, N. E., "Construction Project Management", Prentice Hall, 2009.

Course objectives: The primary objective of this course is to provide students with advanced knowledge and skills to be able to effectively manage construction projects through an understanding of basic theories and advanced techniques for project management planning, optimization, and control in addition to basic knowledge and skills in human resources management and construction disputes resolution

Major Topics Covered:

Topics	No. of Weeks	Contact hours*
Introduction to construction industry	1	3
Construction planning	1	3
Construction project time management	1	3
Construction scheduling	2	6
Leadership in project management	1	3
Construction process optimization	2	6
Construction safety	2	6
Engineering economic principles	3	9
Construction project quality management	2	6
Total	15	45

*Contact hours include lectures and exams.



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Specific Outcomes of Instruction (Course Learning Outcomes):
After completing the course, the student will be able to:

- CLO 1:** Develop and analyze project schedule and prepare a construction plan for projects (1, 2).
CLO 2: Develop an ability to apply engineering economy principles to solve and analyze engineering problems encountered. Formulate and solve a construction optimization problem to improve efficiency of construction processes (1, 4).
CLO 3: Understand the importance of safety and quality in construction projects (2, 4).

Student Outcomes (SO) Addressed by the Course:

#	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	M(35)
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	M(35)
3	an ability to communicate effectively with a range of audiences	
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	M(30)
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	
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	
H=High, M= Medium, L=Low		

Grading Plan:	First Exam	30 Points	14/11/2022
	Second Exam	30 Points	26/12/2022
	Final exam	40 points	TBD

General Notes: Beware of Plagiarism: copying and handing in for credit someone else's work
Any plagiarism case will result in an automatic 'F' for the course