



The Hashemite University
Faculty of Engineering
Civil Engineering Program
Course Syllabus



Course Title: Construction Contracts Administration **Course Number:** 110401348

Instructor: Dr. Mohammad S. El- Mashaleh
E-mail: mashaleh@hu.edu.jo

Office Hours: 9:00 – 10:00 Sun, Tues, Thu

Class schedule: 2:00 – 3:30 Mon & Wed **Class Room:** E2003

Course description Principles of construction contracts administration. Contract ingredients, project delivery approaches, bidding procedures, contract pricing formats, contract documents, specifications, drawings, bonds, subcontracting, delays, alternative methods of dispute resolution. FIDIC Conditions of Contract for Construction.

Textbook(s): Hinze, J. (2011). *Construction Contracts*, 3rd edition, McGraw Hill.

Course objectives: At the conclusion of this course, students are expected to:

- Understand the nature of contracts;
- Distinguish between the different project delivery approaches;
- Become familiar of the bidding procedures for both public and private owners;
- Become aware of the different contract pricing formats that are available to construction owners;
- Know the components of contract documents and understand their precedence;
- Distinguish between performance specifications and prescription specification;
- Know the different types of drawings;
- Appreciate the need for construction securities and bonds and know their types;
- Understand the role of subcontractors;
- Know the different types of delays;
- Become familiar of dispute resolution methods;
- Know the different forms of FIDIC 1999 Conditions of Contract and select the appropriate form; and
- Understand some sub-clauses of FIDIC 1999 Conditions of Contract for Construction

Topics covered:

- Introduction to construction contracts
- Nature of contracts
- Project delivery approaches
- Bidding procedures
- Construction pricing formats
- Contract documents
- Specifications
- Drawings
- Securities
- Bonds
- Subcontracting



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- Delays
- Dispute resolution
- FIDIC 1999 Conditions of Contract for Construction

Class/laboratory schedule:

2 class sessions each week; 75 minutes each

Grading plan:

First exam	30 pts	Wed 14/3/2018
Second exam	30 pts	TBA
Final exam	40 pts	Posted by the registrar

General notes:

Class material will be posted on **HU Moodle**

Course contribution: State the contribution of the course to meeting the professional component

Professional Component	Course Contribution
General Education	None
Basic Science and Mathematics	None
Engineering Science	An ability to apply knowledge and principles of contract administration to solve contracting problems
Engineering Design	None

Relationship to program outcomes: state the relationship of course to program outcomes

ABET a-k		CE Program Outcomes
a	H	An ability to apply knowledge and principles of mathematics, science, and engineering to solve engineering problems
b		An ability to design and conduct experiments, as well as to analyze and interpret data.
c		An ability to design a system, component or process to meet desired needs.
d		An ability to function on multi-disciplinary teams
e		An ability to identify, formulate, and solve engineering problems.
f		An understanding of professional and ethical responsibility
g		An ability to communicate effectively developed through report writing and in class presentations.
h		The broad education necessary to understand the impact of engineering solutions in a regional and local context
i		A recognition of the need for, and ability to engage in life-long learning
J		Knowledge of contemporary issues
k	H	An ability to use the techniques, skills, and, modern engineering tools necessary for engineering practice.



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ABET Program Criteria for Civil Engineering Achieved:
CIVIL ENGINEERING PROGRAM CRITERIA

	Programs must demonstrate that graduates have:
	A. Knowledge of chemistry and calculus-based physics with depth in at least one
	B. The ability to apply advanced mathematics through multivariate calculus and differential equations;
	C. Familiarity with statistics and linear algebra;
	D. An ability to identify, formulate, and solve engineering problems
x	E. The criterion of understanding and ability to use the techniques, skills to include engineering economics skills, and modern engineering tools necessary for professional civil engineering practice.

Prepared by:

Dr. Mohammad El-Mashaleh

Date:

28/1/2018