



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



<b>Course Title:</b>	Building Construction	<b>Course Number:</b>	110401545
<b>Designation:</b>	Elective	<b>Prerequisite:</b>	110401421
<b>Instructor:</b>	Esra'a Hyarat	<b>E-mail:</b>	hstudents2017@gmail.com

- **Course Description (catalog):** In this course, many alternative ways of building are described: different structural systems, different systems of enclosure, and different systems of interior finish.

- **Textbook(s) and/or Other Supplementary Materials:**

Fundamentals of Building Construction Materials and Methods; by Edward Allen & Joseph Iano; 5th Edition.

**References:** Allen, E., & Iano, J. (2011). Fundamentals of building construction: materials and methods. John Wiley & Sons.

- **Major Topics Covered:**

Topic	No. of Weeks	Contact hours*
Ground work: [ Excavation, Soil Type, Foundation]	1	3
Cement and Concrete: [ Cement, Concrete, Making and Placing Concrete]	2	6
Concrete Framing: [ Walls and Columns, Slab on Grade, Floors and Roofs, Reinforcing Concrete]	4	12
Plastering, Wall and Partition Facings	1	3
Doors and windows	1	3
Finishing Work [Selecting interior Finishes, Finish Ceilings, Finish Flooring]	2	6
Gypsum Board	1	3
Stone Masonry, Concrete Masonry	1	3
Quantity Survey	2	6
<b>Total</b>	<b>15</b>	<b>45</b>

\*Contact hours include lectures, quizzes and exams

- **Specific Outcomes of Instruction (Course Learning Outcomes):**

After completing the course, the student will be able to:

3. Defines the different construction systems in buildings and their components (k, i, h)
4. Define the sequence and methods of construction in buildings. (k, i, h)
5. Recognizes the types of structural elements such as ceilings, columns and beams, as well as the finishing works. (i, h)

- **Student Outcomes (SO) Addressed by the Course:**

#	Outcome Description	Contribution
<b>General Engineering Student Outcomes</b>		
(a)	an ability to apply knowledge of mathematics, science, and engineering	
(b)	an ability to design and conduct experiments, as well as to analyze and interpret data	



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(c)	an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	
(d)	an ability to function on multidisciplinary 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	
(h)	the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	M (25%)
(i)	a recognition of the need for, and an ability to engage in life-long learning	H (50%)
(j)	a knowledge of contemporary issues	
(k)	an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	M (25%)
<b>H=High, M= Medium, L=Low</b>		

<b>Grading Plan:</b>	<b>1<sup>st</sup> Exam</b>	30 Points
	<b>2<sup>nd</sup> Exam</b>	30 Points
	<b>Final exam</b>	40 Points

**Prepared by:** Esra'a Hyarat

**Date:** 10 Feb. 2018