



**Philadelphia University**  
Faculty of Engineering and Technology  
Department of Architecture  
First Semester 2021/2022

### Course Details:

<b>Title:</b>	Building construction (1) (0660223)
<b>Prerequisite:</b>	Architectural drawing (0660111)
<b>Credit Hours:</b>	3 credit hours (16 weeks per semester, approximately 64 contact hours)
<b>Course Logistics</b>	Term, class location and time, notation if online
<b>Textbook:</b>	<ul style="list-style-type: none"><li>• سلسلة الهندسة المدنية (4) اثناء المباني الجزء الاول م. أحمد حسين ابو عودة</li></ul>
<b>References:</b>	<ul style="list-style-type: none"><li>• Ching, Francis, D.K, " building construction Illustrated", , New York, 1990.</li><li>• Sharma, S.K. and Kaul, B. K. " Text-Book of Building Construction", S. Chand &amp; Company Ltd.</li><li>• Edward Allen, " Fundamental of Building Construction, Materials and Methods", John Willy &amp; Sons, 1990.</li><li>• الواضح في إنشاء المباني، ترجمة د. سليم الفقيه، الجامعة الأردنية</li><li>• سلسلة الهندسة المدنية(4) اثناء المباني الجزء الأول م. أحمد حسين ابو عودة</li></ul>
<b>Course Description:</b>	The course will explain building construction systems and materials, site work and site preparation, buildings structural component like; foundations, walls, beams, columns, roofs and types of joints.
<b>Website:</b>	<a href="http://www.philadelphia.edu.jo/academics/aahmad/">http://www.philadelphia.edu.jo/academics/aahmad/</a>
<b>Instructor:</b>	Eng Asmaa Al Sayyed Ahmad <b>Email:</b> Aahmad@philadelphia.edu.jo <b>Office:</b> architecture building, room 407 <b>Office hours:</b> Sun. Tue. Thu. 12:00-13:00, Mon. and Wed. 12:00-12:45
<b>TA information</b>	-

### Course Outlines:

Week	Topic
1	Bearing capacity of soil
2-3	Building materials
4	Forces affecting structures
5-6	Structural type
7-9	Foundations
10-11	Column
12	Beams

13	How to build with concrete structure
14	Stairs,Esculatores,Ramps.Elevator
15	Wall system

## Course Learning Outcomes with reference to NAAB Student Outcomes:

Upon successful completion of this course, student should be able to:

1.	Technical Documentation.	B4
2.	Building Materials and Assemblies.	B8

## Assessment Guidance:

Evaluation of the student performance during the semester (total final mark) will be conducted according to the following activities:

**Sub-Exams:** The students will be subjected to two scheduled written exams, first exam and second exam during the semester. Each exam will cover materials given in lectures.

**Quizzes:** (3-5) quizzes of (10-15) minutes will be conducted during the semester. The materials of the quizzes are set by the lecturer.

**Drawings:** Drawing will be handed out to the students through the practical class and should be drawn individually and submitted before or on a set agreed date. Student may be assigned to present project(s).

Cheating by copying from others is strictly forbidden and punishable by awarding the work with zero mark.

**Projects:** At least one project will be given to students; the students are required to work in small groups to prepare a presentation about site visiting

**Final Exam:** The students will undergo a scheduled final exam which will be divided into two-part practical part and a theoretical part.

## Grading policy:

Mid Exam	30%
drawings	20%
Projects	10%
Final Exam	40%
<hr/>	
Total: 100%	

## Attendance Regulation:

The semester has in total 64 credit hours. Total absence hours from classes and tutorials must not exceed 15% of the total credit hours. Exceeding this limit without a medical or emergency excuse approved by the deanship will prohibit the student from sitting the final exam and a zero mark will be recorded for the course. If the excuse is approved by the deanship the student will be considered withdrawn from the course.

September, 2022