

## Course Syllabus

1	Course title	Building Construction 1
2	Course number	0932232
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	6
4	Prerequisites/corequisites	none
5	Program title	Architecture engineering
6	Program code	
7	Awarding institution	
8	School	Engineering
9	Department	Architecture engineering
10	Level of course	2
11	Year of study and semester (s)	First Year
12	Final Qualification	B.Sc. Architecture engineering
13	Other department (s) involved in teaching the course	-----
14	Language of Instruction	English/Arabic
15	Date of production/revision	11/2019

### 16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Tawfiq Abu Gaze, Sun-Tue 12:00-2:00, [taghazeh@ju.edu.jo](mailto:taghazeh@ju.edu.jo)

### 17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Kholoud Hassouneh, Sun-Tue 12:00-2:00, [k.hassouneh@ju.edu.jo](mailto:k.hassouneh@ju.edu.jo)

### 18. Course Description:

This course aims to introduce students to the physical aspects of building materials such as strength, thermal conductivity, cohesion, porosity, The course also introduces different building materials such as stone, cement, wood, metal...

## 19. Course aims and outcomes:

<p>A- Aims:</p> <p>Improve the ability to apply knowledge of science, mathematics, and arts.</p> <p>Study of different building materials that are mainly used in the components of building such as, Aggregate ,Cement ,Metal, Wood ,Glass ,Stone ,Concrete and Brick</p> <p>Understand the physical aspects of building materials</p> <p>Improve awareness of the effect of materials on the final image and structure of the building</p> <p>Introduction of different types of foundation in buildings</p> <p>B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to</p> <p>Make Technical Documentation</p> <p>Understand properties of building materials</p> <p>Understanding the best way to choose building materials</p>

## 20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Introduction to building construction and Building process	1-2	All instructors	B9 B10	Assignments Research	<ul style="list-style-type: none"> <li>• . . روجي الشريف, مواد البناء, عمان, 1984</li> </ul> <p>Mitchells, Introduction to Buildings</p>
Building materials symbols	3		A4 B12 B9	Assignments Research Drawings	<ul style="list-style-type: none"> <li>• . روجي الشريف, مواد البناء, عمان, 1984</li> </ul> <p>Mitchells, Introduction to Buildings</p>
Aggregate	4		B10 B12	Assignments Research Drawings	<ul style="list-style-type: none"> <li>• . روجي الشريف, مواد</li> </ul>

					البناء, عمان, 1984  Mitchells, Introduction to Buildings
Concrete	5-6		B10 B12	Drawings	
Cement	7		B10 B12 A4	Drawings	
Cracks I Buildings	8		B10 B12 A4	Assignment	
Types of block	9		B10 B12 A4	Drawing Assignment	
Stone	10-11		B10 B12 A4	Drawing Assignment	
Wood	12		B10 B12	Drawing Assignment	
Steel	13		B10 B12 A4	Drawing Assignment	
Glass	14		B10 B12	Drawing Assignment	

## 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Group work discussion  
Architectural references  
Site visits  
Studio Assignment

## 22. Evaluation Methods and Course Requirements:

Make Technical Documentation
Understand Structural Systems:
Understanding and analysis Building Envelope System.

## 23. Course Policies:

A- Attendance policies:

Attendance for this studio is mandatory. Attendance will be taken on every studio throughout the semester  
If you must miss a class meeting, contact your tutor and explain the reason for your absence, or contact

your tutor upon your return to determine what work you missed.

Work will take place in the lecture hall, studio, or field environments. You are expected to work on assigned projects during class time, even if you are not directly engaged with your tutor.

An absence of more than 15% of all the number of classes, which is equivalent of ( 7 ) classes, requires that the student provides an official excuse to the instructor and the dean. • If the excuse was accepted the student is required to withdraw from the module. • If the excuse was rejected the student will fail, the module and mark of zero will be assigned as stated in the laws and regulations of the University of Jordan.

Please refer to pages 133 and 134 of the student handbook

#### B- Absences from exams and handing in assignments on time:

For weekly exercises: one day late lose 30%

2-3 days late students lose 50%

More is not accepted unless the student have an accepted excuse

Final exam, make-up exams will be arranged if justifications for missing the exam satisfy the above. It is the student's responsibility to provide an excuse for the absence within three days to schedule a make-up session; otherwise, the recorded score for that exam for the student will be a zero.

#### C- Health and safety procedures:

All student should follow Studio instruction of how to use cutters, cutting pad and should bring a special rubber/ metal ruler cutter

#### D- Honesty policy regarding cheating, plagiarism, misbehavior:

Students are expected to observe all University guidelines pertaining to academic misconduct.

Students should show all sketches he/she went through to achieve the final design

#### E- Grading policy:

Lab assignments and home works: 30%

Midterm exam: (30%)

Final exam: (40%)

#### F- Available university services that support achievement in the course:

Labs

Library

### 24. Required equipment: ( Facilities, Tools, Labs, Training....)

Data show

Model and building materials labs

CNC mashine

### 25. References:

Evert,Alan(1981), Mitchell Building Series Materials

Derek Osbourn, Introduction to Building.

I.Savin, Building Materials and Components

- د. روجي الشريف, مواد البناء, عمان, 1984
- د. سليم الفقيه, الواضح في انشاء المباني, عمان 2004
- عاطف السهيري . انشاء المباني 1994
- د. سليم الفقيه, الواضح في انشاء المباني, عمان 2004

ب- الكتب الموصى بها، وغيرها من المواد التعليمية الورقية والإلكترونية.

**26. Additional information:**

Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----