1	**Course title**	Building Construction 2
2	**Course number**	0932234
3	**Credit hours (theory, practical)**	3
	Contact hours (theory, practical)	6
4	**Prerequisites/corequisites**	Building Construction 1
5	**Program title**	Architecture engineering
6	**Program code**	2
7	**Awarding institution**	University of Jordan
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**	3/2024

16. Course Coordinator:

, office hours, and email addresses should be listed.

Tawfiq Abu Gaze
Office number
phone number
office hours Mon-Wed 12:00-2:00
email addresses taghazeh@ju.edu.jo

17. Other instructors:

Kholoud Hassouneh
Office number
phone number 0798513470, Ext27168
office hours Mon-Wed 12:30-2:00
email addresses , k.hassouneh@ju.edu.jo

Ayat Khreisat
Office number -
Office hours: Sun & Tue 12:30 PM -1:30 PM
Phone number: 06 5355000 Ext: 27173
email addresses :ayatlkhreasat@ju.edu.jo

18. Course Description:

Building construction in general is introducing the construction methods used in traditional and modern buildings and soil on which the buildings will be constructed, the quality of the foundations and the methods of implementation, and everything related to the building in terms of building material and its characteristics and methods of implementation and parts of the building.

19. Course aims and outcomes:

A- Aims:

- • Introduce students the principles and foundations of constructing buildings through
  Identifying the main components of the building and how it relates to the engineering logic of it.
  Studying the effect of the choice of construction materials on the final product of the building and how these factors affect the physical structure of the building, the proportions of blocks and spaces, the layout of the openings and the texture, in addition to the relation of the building to the site and the surrounding buildings and installations.

- The course also aims at linking the architectural design with the construction methods on the other hand through training in the preparation of the executive plans at different levels

- The course also aims at linking the architectural design with the construction methods on the other hand through training in the preparation of the executive plans at different levels.
  The course also aims to deepen the students' knowledge of the building's main sections and construction methods, including foundations, types, walls, ceilings and various construction methods.
  The course aims to introduce students to stairs and elevators
  defining of materials and methods of thermal insulation and insulation of moisture in the ceilings, walls and floors

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to

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

C- NAAB Student Performance Criteria

- A4. Technical Documentation
- B9. Structural Systems:
- B10. Building Envelope System.
- B12. Building Materials and Assemblies

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Types of foundations in buildings Plan drawing	1-3		A4. B9. B12.	Assignments Research	
Walls Thermal insulations Moisture insulation Elevation drawing	4-7		A4. B9. B10. B12	Assignments Research Drawings	
Roofs and Floors Site visit	8-9		A4. B9. B10. B12	Assignments Research Drawings	
Stairs and Elevators Sections drawing	10-11		A4. B9. B10.	Drawings	
Expansion Joints	12		A4. B9. B10. B12.	Drawings	
Doors and Windows	13-15		B9. B10. B12.	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
Model making

22. Evaluation Methods and Course Requirements:

For the final grades of this course, active involvement in the course during the seminars, exams and quizzes scores, the quality structural drawings and assignments be assessed.

The midterm exam as well as the final exam will evaluate factual, procedural, and conceptual knowledge developed by students across the semester.

Visiting sites under construction is important in understanding different structural methods in buildings.

Evaluation:

Lab assignments and home works: 30%

Midterm exam: (30%)

Final exam: (40%)

Course requirements are**:**

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, misbehaviour:

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%)

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
87-100	84-86	79-83	75-78	71-74	66-70	62-65	59-61	54-58	53-50	36-49	0-35
15%		65%						20%			

Grade Scale:

A, A- indicates excellent performance.
B+, B, B- indicates good performance.
C+, C, C- indicates satisfactory performance.
D+, D indicates less than satisfactory performance.
D-, F indicates unsatisfactory performance (no credit: always include last date of attendance).

Passing Grades	Description
A, A-	Outstanding and excellent performance. Normally achieved by a minimum of students. These grades indicate a student who is self-initiating, exceeds expectation and has an insightful grasp of the subject matter.
B+, B, B-	Very good, good and solid performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one area balanced with satisfactory grasp in the other area.
C+, C	Satisfactory, or minimally satisfactory. These grades indicate a satisfactory performance and knowledge of the subject matter.
D	Marginal Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.
Failing Grades	Description
D-, F	Unsatisfactory performance. Wrote final examination and completed course requirements; no supplemental.

F- Available university services that support achievement in the course:
Access to Wi-Fi internet
Proper electronic library
Department library
Main Library

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

Data show
Model and building materials labs

CNC machine

25. References:

Mitchell's Structure & Fabric Part 2,J S Foster, 2008

Evert,Alan(1981), Mitchell Building Series Materials

Derek Osbourn, Introduction to Building.

I.Savin, Building Materials and Components
Encyclopedia of Detail in Contemporary Residential Architect, Virginia McLeod,2010
Barry's Advanced Construction of Buildings, by Stephen Emmitt, Christopher A. Gorse,2014

- زهير ساكو و ارتين ليفون .انشاء المباني,1983
- د. روحي الشريف, مواد البناء, عمان,1984
- د. سليم الفقيه, الواضح في انشاء المباني, عمان2004
- عاطف السهيري . انشاء المباني 1994

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

- د. سليم الفقيه, الواضح في انشاء المباني, عمان2004

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: ----------