

## Course Syllabus

1	Course title	Building construction (3)
2	Course number	( 0902335)
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	4
4	Prerequisites/co requisites	Building construction (1), building construction (2)
5	Program title	Architecture engineering
6	Program code	
7	Awarding institution	The University of Jordan
8	School	Engineering
9	Department	Architecture engineering
10	Level of course	2020/2021, Winter semester
11	Year of study and semester (s)	Undergraduate, 3rd year Students
12	Final Qualification	B.Sc. Architecture engineering
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	Arabic and English
15	Date of production/revision	9/10/2022

### 16. Course Coordinator:

Khaled Al Omari  
Office numbers, office hours,  
Email addresses : [K.Omari@ju.edu.jo](mailto:K.Omari@ju.edu.jo)  
Phone number: 06 5355000 Ext: 27154

### 17. Other instructors:

Esra'a Al-Qudah,  
Office numbers, office hours,  
Email addresses : [esraq@ju.edu.jo](mailto:esraq@ju.edu.jo)  
Phone number: 06 5355000 Ext: 27169

Arch. Fadia Al-Nasar,  
Office hours: Mon & Wed 11:30 PM -1:30PM  
Ext: Email addresses: [f.alnassar@ju.edu.jo](mailto:f.alnassar@ju.edu.jo)  
Phone number: 06 5355000 Ext: 27171

## 18. Course Description:

This course introduces students to architectural finishing materials and the standard construction methods of finishing, through a series of lectures, presentations and reading assignments. Two exams will be given and many exercises. The exercises will emphasize on wall and floor plans, elevations, sections and details in different scales. Students, also, will learn how to design and draw the reflected ceiling plan and section in addition to the detailed legend attached to them.

Evaluation of the exercises is to be based on each student's demonstration of technical virtuosity and graphic clarity.

## 19. Course aims and outcomes:

### A- Aims:

- Stress the importance of finishing process and finishing materials in Architectural projects, and its role of presenting the final image of the building
- Students have to know how to choose the finishing materials according to many variables such as: the building function, its identity, the site in which it is located, and of course to the budget of the project.
- Familiarizing students with the diverse building finishing materials, locally, and internationally
- Familiarizing them with walls, floors and ceilings finishing techniques
- Developing students' skills of the standard graphic conventions used to communicate construction ideas throughout the architectural profession

### B- Intended Learning Outcomes (ILOs): Upon successful completion of this course:

- students will be able to select and pick up the appropriate kinds of finishing materials for the different architectural spaces.
- Students will care about their choices of building materials, dimensions, colors, textures.....etc, according to the architectural identity of the building and the affordable budgets
- They will be able to deal with the diverse building finishing materials and techniques
- Developing students management skills
- In addition to that, students will be able to draw finishing plans, constructional sections and elevations professionally
- They will, be able to represent the finishing materials of walls, floors and ceilings by the detailed drawings in addition to the detailed legend attached to them
- They will, also, care about the importance of dealing with local finishing materials

A1.Theoretical knowledge base

A2, A3., A4 Developed and Practical knowledge Base

A5. Constructional Drawing skills

B4. Investigative Skills

B5. Management Skills

C1. Collaboration

Week		Topic	Achieved ILOs	Evaluation Methods	Reference
1	9 Oct	Explanation of course policy		Group Discussions	
	11 Oct	Review to what has been done in building construction (1) , (2), and introduction to the new material of building construction (3)	A1,A2. A3, A4	Demonstration, Presentation and Group Discussions	1,2,3,5,7,8, 10
2	16 Oct	Walls finishing	A1,A2. A3, A4, B1, B2	Demonstration, Presentation and Group Discussions	1,2,3,5,7,8, 10
	18 Oct			Lab exercise and home work	
3	23 Oct	Floor finishing		Submission 10%	1,2,3,5,7,8, 10
	25 Oct			Demonstration, Presentation and Group Discussions	
4	30 Oct	Floor finishing	A1,A2. A3, A4, B1, B2	Demonstration, Presentation and Group Discussions	1,2,3,5,7,8, 10
	1 Nov			Lab exercise and home work	
5	6 Nov	Ceiling finishing			
	8 Nov	Doors	A1,A2. A3, A4, B1, B2	Demonstration, Presentation and Group Discussions	1,2,3,5,7,8, 10
6	13 Nov	Windows		Lab exercise and home work	
	15 Nov	Curtain Wall		Submission 10%	
7	20 Nov	Curtain Wall	A1,A2. A3, A4, B1, B2, C1	Demonstration, Presentation and Group Discussions	1,2,3,5,6,7, 8,10
	22Nov	Group Discussion		Lab exercise and home work	
8	27 Nov	Mid Exam20%	A1,A2. A3, A4, B1, B2	Demonstration, Presentation and Group Discussions	1,2,3,5,7,8, 10
	29 Nov				
9	4 Dec	The built in and fixed furniture	A1,A2. A3, A4, B1, B2, C1	Lab exercise and home work	1,2,3,5,7,8, 10
	6 Dec			Submission 10%	
10	11 Dec	Install the bathroom kits and kitchen cupboards	A1,A2. A3, A4, B1, B2	Demonstration, Presentation and Group Discussions	1,2,3,5,7,8, 10
	13 Dec	Revision		Group Discussions	
11	18 Dec	Revision		Group Discussions	
	20Dec				
12					
		Final Exam50 %			

## 20. Topic Outline and Schedule:

## 22. Evaluation Methods and Course Requirements

<b>Development of ILOs is promoted through the following teaching and learning methods:</b>	
1- Lectures and Class Discussion:	Definition and discussions will precede each session and assignment
2-Demonstration:	Demonstration is presented to students in each session which explains the topic and exercise.
3-Tutorials:	Students can use office hours for more info
4-Laboratory:	The classroom setting for this course is a medium area room with a data show, whiteboard and seats.
5- Assignments, Report, Projects:	There will be many exercises as shown in schedule.

## 21. Teaching Methods and Assignments:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

1- Lab exercises , and home works and Exams	Exercises (30%) Mid exam (20%) (+Final exam 50%)

### 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 studio time.

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 Site visit instructions: of how to be cautious while roaming the project workshop, wear special comfortable shoes that are resistance to sharp tools that may be exposed in the workshop, and wear helmets for the head.

#### D- Honesty policy regarding cheating, plagiarism, miss behaviour :

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:

**Weekly assignments and exercises (30%)**

**Midterm Exam (30%)**

**Final Exam (40%)**

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

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

Materials lab, building tools such as measuring and leveling tools: ( bubble level, trowel....etc

Facilities: Labs. Tools: the students should bring all their tools: Pen, Pencil, Eraser, Sharpener, Coloured Pencils, Markers and Sketchbooks. Engineering drafting tools. - Students will use computerized drawing programmes. - Computer labs necessary for any data show presentations.

## 25. References:

Required book (s), assigned reading and audio-visuals:

- 1---د.روحي الشريف, انشاء المباني, الجزء الثاني, أعمال التشطيبات, عمان 1985
- 2---وزارة الأشغال العامة والإسكان, المواصفات الفنية العامة للمباني, الطبعة الأولى, عمان 1985
- 3---داوود خلف, العقود والمواصفات وحساب الكميات, عمان, الاردن 2010
- 4---د.علي رأفت, ثلاثية الابداع المعماري, الابداع الانشائي في العمارة, عمان, الاردن 1997
- 5---يوسف أبو عرب, م. مراد كلالدة م. جهاد ماجد, وزارة التربية والتعليم, (قسارة وتبليط ودهان), عمان الاردن 1995
- 6---وزارة الطاقة والثروة المعدنية (دائرة الطاقة المتجددة), دراسات في العزل الحراري, عمان الاردن 1986

7---Liebing, RW. And Paul M.E., Architectural Working Drawing, John Wiley & sons, New York. 1977

8---Harrington & Foster, Fabric & Structure

9---Ching Francis D.K. Building Construction Illustrated, Van Nostrand Reinhold Company, New York. 1975

10---[https://www.researchgate.net/publication/320800578\\_Interior\\_Finishing\\_Materials](https://www.researchgate.net/publication/320800578_Interior_Finishing_Materials)

Interior Finishing Materials PDF December 2016

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Recommended books, materials, and media:

- 1---د.روحي الشريف, انشاء المباني, الجزء الثاني, أعمال التشطيبات, عمان 1985
- 2---يوسف أبو عرب, م. مراد كلالدة م. جهاد ماجد, وزارة التربية والتعليم, (قسارة وتبليط ودهان), عمان الاردن 1995

## 26. Additional information:

Name of Course Coordinator: ---Esra'a Al-Qudah-----Signature: -----

Date: -----11/10/2020-----

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

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

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

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

