



Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, academic year (2018-2019)

Course syllabus

Course title: Building Construction 2	Course code: 0660224
Course level: Second year.	Course prerequisite (s) and/or co-requisite (s): Building Construction 1
Lecture time: 1:00-3:00 Tue., Thu.	Credit hours: 3 Hours
	Contact hours: 3 Hours
Location: Fourth Floor of the department of architecture, Hall 406	

Academic Staff

Specifics

Name	Rank	Office number and location	Office hours	E-mail address
Noor Al-huda Abu Ghunmi	Lecturer	Fourth floor, Office No. 412	11:00- 1:00 Tue., Thu	Nabughunmi@philadelphia.edu.jo

Course description:

The basic information of finishing works. Which is a fine job in building construction process where it forms the beauty of a building. Several types of finishes can be used based on the materials used environmental conditions and costs.

Content:

Finishing of a building can be divided into several sections: Floor finishing, wall finishing, ceiling finishing, stone work, metal work, painting, decoration, insulation of buildings and joints expansion.

Course objectives:

This course aims to introduce students to the sequence and methods of finishing works of buildings in the modern way:

1. The general steps that followed for finishing works.
2. walls and ceilings finishing: Bleaching, shebreez, ceramics, marble and stone facades. It also includes the electrical, sanitary and heating installation.
3. Floor Coatings: ground floor, repeated floors and final surface
4. The wood works.
5. Metal works: iron, aluminum, plastic and glass.
6. Painting and decoration works.
7. Building insulation works: thermal insulation, water insulation and moisture.
8. Joints in building Projects.

Teaching Activities:

To deepened the understanding of theoretical material the students will divide into groups, each group will visit building workshops and then explain what they was identified during the visit.

Teaching Methodology:

A series of small exercises and projects are used to illustrate the building finishing materials and develop students' skills of details drawing.

Learning outcomes:

By the end of the course students will gain a fundamental knowledge of building construction finishing, its elements, material and details.

Assessment instruments

- Exams (First, Second Exam).
- Assignments reviews and evaluation.
- Quizzes.
- Short reports and/ or presentations, and/ or Short research projects.
- Homework assignments.

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20
Second examination	20
Projects submissions and developments, quizzes, homework assignments	20
Final Project	40
Total	100

Course/ Module academic calendar

	Course Program	Calendar (Week)	Exams
1	The general steps that followed for finishing works.	(1)	
2	Floor Finishing- Ground floor	(2)	
3	Floor Finishing- Repeat floor	(3)	
4	Walls and ceilings finishing: Bleaching, shebreez, ceramics and marble.	(4)	
5	Stone: Appearance, properties; types of stones; exploitation of quarries; workability of stones; maintenance of stonework (cleaning, preservation, water repellents, restoration, vegetable growth)	(5)	
6	First Exam	22/11	20%
7	The wood works	(7)	
8	Metal works: iron, aluminum, plastic and glass.	(8)	
9	the electrical, sanitary and heating installation.	(9)	
10	Painting and decoration works.	(10)	
11	Second Exam	27/12	20%
12	Building insulation works: thermal insulation, water insulation and moisture.	(12)	
13	Joints in building	(13)	
14	Workshop	(14)	
15	Circulations: Horizontal and vertical circulation.	(15)	
16	Final Exam	(16)	

Expected workload:

On average students need to spend 3 hours of study and preparation for each 2 hours lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Course/ resources:

1. Ching, Francis, D.K, " **building construction Illustrated**", , New York, 1990.
2. Sharma, S.K. and Kaul, B. K. " **Text-Book of Building Construction**", S. Chand & Company Ltd.
4. Edward Allen, " **Fundamental of Building Construction, Materials and Methods**", John Willy & Sons, 1990.
6. الواضح في إنشاء المباني، ترجمة د. سليم الفقيه، الجامعة الأردنية
7. الموسوعة الهندسية لإنشاء المباني والمرافق العامة، عبد اللطيف أبو العطا
8. الرطوبة والعفن في الأبنية، الدكتور أيوب عيسى أبو دية