Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, 2018/2019

Course Syllabus

Course Title: Building Construction 1	**Course code: 660231**
Course Level: Second	**Course prerequisite (s) and/or corequisite (s): 660111**
Lecture Time:	**Credit hours: 3**

Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Asmaa O. Al Sayyed Ahmad	**Teacher**		**15:00-13:00 Tuesday & Thursday**	**Arch.asmaa.86@gmail.com**

Course module description:

The course will explain building construction materials, site work and site preparation, foundations, walls, and types of joints.

Course module objectives:

Building construction is the basic for architectural students, to recognize and understand building systems, materials and components.

Course/ module components

- Theoretical lessons
- Drawing lessons
- Exercises tests
- Site visits

- **Books (title , author (s), publisher, year of publication)**
  There is no specific publication can cover the course syllabus, students will be given a list of reading books, articles and web sites (as seen at the end of the course syllabus).

- **Support material:**
  slide show, CD's, data show DVD's, site visits

- **Homework and laboratory guide :**
  Students are requested to use the theoretical lectures to produce technical drawings of the elements which compose the building and to know the using of the different construction's materials.

Teaching methods:

Lectures, study projects, exercises in the studio, practical work, slides, sites visits. Every student is obliged to draw assigned detail from the outline structure, as individual method.

Learning outcomes:

- Knowledge and understanding
  Students will develop a facility in use of building materials and systems to achieve architectural objectives based on a thorough understanding of their characteristics and properties, constructional principles, detailed design consideration, and performance in use.

- Cognitive skills (thinking and analysis).
  Cognitive senses using deferent techniques. Also students will be able to express their ideas in building construction.

- Communication skills (personal and academic).
  Architectural students will be able to communicate, read, and use resources to develop their cognitive senses in architecture and environment.

- Practical and subject specific skills (Transferable Skills).
  The course will train architectural students and qualify them in building construction principles (structures, materials, graphic conventions, technical standards of design).

Course Evaluation:

Allocation of Marks	
Assessment Instruments	***Marks***
Exercises	20%
First & Second Exams	40%
Final Exam	40%
Total	**100%**

Documentation and academic honesty

- Students are allowed to practice on free hand sketching from books for training purposes copying is not allowed.

Course/module academic calendar

Tuesday& Thursday (from 012.00 to 14.00)
Monday &Wednesday(from 12:45-14:45)

	Course Program	***Calendar***	***Exams***
2	Bearing capacity of soil		
3	Building materials		
4	Forces affecting structures		
5	Structural type		
6	Foundations		First 20 Marks
7	Foundations		
8	Column		
9	beams		
10	How to build with concrete structure		
11	Stairs,Esculatores,Ramps.Elevator		
12	Stairs,Esculatores,Ramps.Elevator		Second 20 Marks
13	Wall system		
14	Bearing wall		
15	Expansion joint		
16			Final 40 Marks

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.

Module references

- Building Construction - W.B. Mc. Kay Vol. 1- 4
- The Construction of Building 2 - Barry
- Building Construction Illustrated - Francis D.K. Ching Van Nostrand Reinhold
- Construction Technology - R. Chudly Vol. 1- 4
- Materials - Mitchell`s Building Construction – Alan Everett - B.T. Batsford Ltd
- Components and Finishing - Mitchell`s Building Construction - Alan Everett - B.T. Batsford Ltd
- Construction for Interior Designers - Roland Ashcroft
- Building Construction Dictionary