

Course name: BUILDING CONSTRUCTION (1)

Course code: ARCH 120

Course hours: Credit hours 3, Contact hours 4

Course Pre-requisites: None

Course Description

This course covers the basics of building materials, building elements: foundations, walls, masonry, openings and arches, simple roofs and floors. Both theoretically and practically. This course is focusing on the fundamentals of materials processes and properties, elements functional requirements. In addition, how to design elements details achieving most practical economic solutions.

Course Main Objective

In this course, the students will be to:

- Introduce building materials general properties.
- Introduce primary building elements in terms of functional requirements, materials and assemblies.
- Develop construction details drafting skills.
- Expose the students to construction site preparatory works, in addition to construction process and its relevance to the built environment.

Course Learning Outcomes

After the completion of this course, the students will be able to;

- Outline building materials properties.
- Define primary building elements and their functional requirements, materials and assemblies.
- Modify primary elements construction details based on functional requirements and materials properties.

Course evaluation

- Quizzes, practical assignments
- Weekly/biweekly reviews
- Midterm examination
- Attendance
- Final examination

Course recommended books

- Roy Chudley & Roger Greeno, (2014) Building construction handbook. 10th edition.

Course References

- Stephen Emmitt & Christopher Gorse, (2014) Barry's advanced construction of buildings. 3rd edition.
- Francis D. K. Ching, (2008) Building construction illustrated. 4th edition.