Zarqa University

Faculty of Engineering Technology Department: Architecture Engineering A LONING TO THE PARTY OF THE PA

Prerequisite: Architectural Drawing

0908000 Instructor: Lecture's time: Semester:

Office Hours:

Course title: Building Construction (1)

(0908262)

Course description:

This course aims at understanding the construction works stages that include site preparation, soil testing, and excavation works. It studies the types of forces that affect the structural elements, the building materials (stone, brick, concrete, wood and metal), the types of foundations, the structural systems, and the structural elements (columns, beams, roofing, flooring, and walls).

Aims of the course:

- 1. To introduce students to different types of buildings according to different needs.
- 2. To provide students with means to plan and start the building construction process properly.
- 3. To upgrade students abilities to choose the best materials for construction and Structural system.
- 4. To unable student's cognitive and imaginative thinking to communicate his information to workers using improved drawing skills.

Intended Learning Outcomes (ILOs):

- 1. **Knowledge skills: with ability to** Define construction work, different types of buildings.
- 2. understanding skills: with ability to understand of the Structural system.
- 3. **Analysis skills: with ability to** Analysis Structural system to the elements by using technical drawing.
- 4. **Application skills : with ability to** apply building construction process, apply Structural system according to types of buildings.

Course structures:

Week	C. Hrs	ILOs	Topics	Teaching Procedure	Assessment methods
1 st week 24-26 February - 2019			- Introduction to the Building		
2 nd week 3-5 March - 2019 3 rd week 10-12 March - 2019		1+2	construction. - Site investigation & soil - Site preparation - Excavations and fill	Theory lectures (data show)	Quizes



4 th week 17-19 March - 2019	1+2+3	- Foundation Systems	- Theory lectures (data show)+ Videos will be during the one hours	- Exercises tests
24-26 March - 2019	2+3		the one nours	
6 th week 31 March – 2 April - 2019 7 th week 7-9 April - 2019	2+3		- (Applications) technical drawing will be during the	First Exam 26/3/2018
8th week 14-16 April - 2019 21-23 April - 2019	2+3	Walls systemsFloor SystemsRoof systems (slabs)	two hours lab Students are requested to produce technical drawings of	HWs + Exercises tests
9 th week 10 th week 28-30 April - 2019			the building elements - Site visits.	COSIS
5-7 May - 2019		- Special Construction		Second Exam
12 th 13 th week 12-21 May - 2019	1+2+4	- Stair cases - Materials of construction Concrete, Steel, Stones, wood		- Submit project (Structural drawing)
14 th week 26-28 May - 2019		Concrete, Steel, Stolles, Wood		
15 th week		Final Exam		

References:

- Ching, F. D.K, Building Construction, Van Nostrand Reinhold Illustrated 2004 . الواضح في إنشاء المباني/ فرانسيس د.ك تشنج، ترجمة سليم الفقيه- عمان: الجامعة الأردنية،
- "Building Construction", Zuhair M. Saco & Artin Levon, Baghdad university press, Baghdad, Iraq,1986.



Assessment Methods:

Methods	Grade	Date
First Exam	15%	25/3/2019
Second Exam	15%	
Quizzes		
drawings during the lab	20%	
HWs -Exercises		
Model for a structural element		
Final Exam	50%	

