

Faculty of Engineering & Technology

Building Construction & Materials 2

Information :

Course Code :	ARC 242	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department :	Department of Architectural Engineering					

Instructor Information :

Title	Name	Office hours
Professor	Alaa Eldin Elsayed Faried Hassan	
Lecturer	Hala Ali Nabil Mohamed Ali	
Assistant Lecturer	Bothaina Samih Ismail Abou El Khier	1
Assistant Lecturer	ETHAR ESSAM MAHMOUD ALY ELSHINAWY	
Assistant Lecturer	ETHAR ESSAM MAHMOUD ALY ELSHINAWY	
Teaching Assistant	Ayman Shawki Hamed Ibrahim Shehab	1
Teaching Assistant	Mazen Nabil Abdellatif Shehata	
Teaching Assistant	Ahmed Mohamed Gamal Eldin Hassan Abdallah Ashmawy	

Area Of Study :

Upon successful completion of the course, the student should be able to:

1-Understand the nature of loads and load transfer mechanisms in different building systems.

2-Select proper structural systems depending on building types.

3-Develop the understanding of principles of construction as related to construction materials.

4-Differentiate between structural and non-structural building components.

5-Develop the understanding of the aim & principles of working drawings.

6-Properly design staircases along with pertinent details.

7-Properly design window and door openings along with pertinent details.

Description :

Introduction to working drawings, Axis, dimensions, finishing schedules, Staircases rules and design, wooden Windows and Doors with details and schedules, Expansion and movement joints, Retaining walls; concrete and masonry.

Course outcomes :

a.Knowledge and Understanding: :			
1 -	Understand concept of designing and constructing Architecture within different disciplines.		
2 -	Understand basic applied and engineering science.		
b.Intellectual Skills: :			

1 - Drive different solution alternatives for the Architectural problems.



2 -	Analyze the solution alternatives and choose the optimum one.		
c.Professional and Practical Skills: :			
1 -	Conduct physical models of Architectural works.		
d.General and Transferable Skills: :			
1 -	Share ideas and communicate with others.		

Торіс	No. of hours	Lecture	Tutorial / Practical
Working Drawing introduction	8	4	4
External and Internal Dimensions	8	4	4
Staircases: Design rules and Details	12	6	6
Doors,Windows,Finishing and Details	12	6	6
Expansion and Settlement joints	4	2	2
Retaining walls	4	2	2
Research Projects and Presentations	4	2	2

Teaching And Learning Methodologies :

Class discussions.		
Lectures.		
Drawing exercises in the Design studios.		
Research assignments and presentations.		
Information collection from different sources.		
Site visits and field trips.		

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments and Projects	50.00		
Attendance and Participation	10.00		
Final- term examination	20.00		
In Class Quizzes	20.00		

Course Notes :

No Course Notes.

Recommended books :

1-McKay's W. B.et ell; Building Construction, Vol.:1.

2-Chudley, R. & Greeno, R.; Building Construction Handbook, 7th ed., Elsevier Ltd., 2008.

- 3-Ramsey, Sleeper; Architectural Graphic Standards.
- 4-Mitchell, George A.; Building Construction, Vol.:1.



Periodicals :

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Web Sites :

www.sweetscatscatalogue.com