

Faculty of Engineering & Technology

Building Construction & Materials 4

Information :

Course Code : ARC 342

Level : Undergraduate

Course Hours : 4.00- Hours

Department : Department of Architectural Engineering

Instructor Information :

Title	Name	Office hours
Associate Professor	Sahar Morsy Mohamed Mohamed Ali	8
Associate Professor	Sahar Morsy Mohamed Mohamed Ali	8
Lecturer	DINA EID SAID KHATER	2
Assistant Lecturer	Nouran Ashraf Ali Abdeltawab	
Teaching Assistant	Amir Bahgat Abd El Azem Ebrahim Eltantawy	
Teaching Assistant	Omar Magdy Ahmed Ibrahim Elbahrawy	
Teaching Assistant	Kamal Abdeleziz Ali Selim	1
Teaching Assistant	AYA TAREK IBRAHEM ABDELHADY AHMED	
Teaching Assistant	Omar Magdy Ahmed Ibrahim Elbahrawy	
Teaching Assistant	Salma Mohamed Eltohamy Elgendy	

Area Of Study :

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

- ✓ Know the different ways of Thermal and damp proofing.
- ✓ Know the main types of expansion and settlement joints.
- ✓ Know the different types of flooring, wall and ceiling finishes.
- ✓ Recognize the different technics of executing floor, wall and ceiling finishes.

Description :

Contemporary finishing techniques, methods, Architectural /building works, Partitions, curtain walls, Panels, Finishing materials, bricks, timber, metals, plastics and synthetics, Plaster, cladding, suspended ceilings, raised floor (etc.) Expansion and settlement joints, admixtures, thermal and damp proofing.

Course outcomes :

a. Knowledge and Understanding: :

1 -	a5. Recognize the different types of executing floor, wall and ceiling finishes.
2 -	a4. List the different types of floor, wall and ceiling finishes.
3 -	a3. Define the main types of expansion and settlement joints.
4 -	a2. List the different ways of and water, damp thermal proofing.
5 -	a1. Define the need for building insulation and joints.

b. Intellectual Skills: :

1 -	b1. Differentiate between the different types of thermal and damp proofing.
2 -	b2. Differentiate between the different types of Expansion and settlement joints.
3 -	b3. Weight the importance of building finishes.
4 -	b4. Appraise the characteristics of different building materials
5 -	b5. Select best finishing materials and fixation technics for floor, wall, ceiling and facades.

c. Professional and Practical Skills: :

1 -	c1. Draw details with appropriate materials for various interior and exterior finishing cases.
2 -	c2. Draw details of deferent building's parts with thermal and damp proof
3 -	c3. Draw details for Expansion and settlement joints.
4 -	c4. Draw details to solve problem considering the use of different finishing materials side by side.

d. General and Transferable Skills: :

1 -	d1. Manage tasks and resources
2 -	d2. Search for information
3 -	d3. Refer to relevant literatures

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction and overview	6	2	4
Water and damp proofing	6	2	4
Thermal proofing	6	2	4
Expansion and settlement joints	6	2	4
Research submission	6	0	6
Floor Finishes: Marble/ Granite	6	2	4
Floor Finishes: Wooden / Ceramic / Tiles	6	2	4
Floor Finishes: Raised floor	6	2	4
Introduction to wall Finishes: Partitions / Plaster work/ wall paper	6	2	4
Wall Finishes: Cladding / Partitions	6	2	4
Wall Finishes: Curtain walls	6	2	4
Introduction to Ceiling Finishes: Ceiling finishes, Plaster work/ Suspended & False Ceiling/ Metal lath	6	2	4
Ceiling finishes: Aluminum Strips / Gypsum Tiles / Gypsum Boards / Acoustic Tiles	6	2	4
Ceiling finishes: Aluminum Strips / Gypsum Tiles / Gypsum Boards / Acoustic Tiles	6	2	4
Revision	6	2	4

Teaching And Learning Methodologies :

Lectures.
Research

Class Work

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments/Studio work	30.00		
Final exam	40.00		
Mid-term exam	20.00		
Participation	10.00		

Course Notes :

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Recommended books :

- Ching, Francis D. K.; Building Construction Illustration, Wiley , 4th Ed.
- Mckay's, W. B. et ell; Building Construction, v. I
- Ramsey, Sleeper; Architectural graphic standards. American Institute of Architects and Dennis J. Hall
- Mitchell, George A.; Building Construction. v. I

Periodicals :

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