

# **Department of Architecture**

**College of Engineering** 

**University of Cihan** 

Subject: Building Material

**Course Book – First Stage** 

Lecturer's name BSC, PGdip, MSC, PhD

Dr. Arez Mohammed Ismael Academic Year: 2015/2016

# **Course Book**

1. Course name	Building Material	
2. Lecturer in charge	Dr. Arez Mohammed Ismael	
3. Department/ College	Architecture/Engineering	
4. Contact	e-mail: arezsml@yahoo.com	
	Tel: 07700000477	
5. Time (in hours) per	Theory: 2	
week	Practical: 0	
6. Office hours	Sunday-Thursday ( 1:00pm to 2:00pm)	
7. Course code		
8. Teacher's academic	Earned the bachelors degree in civil engineering,	
profile	the master's degree in structure made by light	
	strongth of domogod reinforced concrete T	
	strength of damaged reinforced concrete 1	
	peams.	
9. Keywords		

#### **10. Course overview:**

This course provides an introductory overview of the various materials used in construction. After receiving an introduction into fundamental principles of structural, physical and long-term performance, students learn about material and product manufacturing techniques and how they relate to mechanical and non-mechanical properties of the various materials. Common construction methods are introduced and building details are explored.

#### **11. Course objective:**

Students have the opportunity to experience material capacity and behavior as well as construction methods in demonstrations and lab experiments. Furthermore, material applications and detailing in structural and nonstructural building components are explored. Resulting from this course, students will gain a comparative knowledge of material properties and possible applications in construction and architecture.

#### 12. Student's obligation

Students are Required to attend class, do their homeworks and do the quizzes, they have to study after each class and will have two take two exams for the semester

#### 13. Forms of teaching The materials are explained mainly by data show and the board is used

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14. Assessment scheme

30% homework

10% daysketch

5% presence

5% daily assessment

#### 50% final exam

### **15. Student learning outcome:**

- Comparative knowledge of material properties (physical, structural, ...) for most common and advanced building materials,
- Understanding of typical and potential applications of these materials,
- Understanding of relationship between material properties and structural form,
- Ability to identify crucial problem areas in manufacture and applications of building materials,
- Understanding of importance of experimental verification of material properties.

## 16. Course Reading List and References:

-Commercial design and drafting

-The constructions of buildings. Berry

-Time sever standards for architectural design data-6th edition john hancock -Building construction Al Suhairy, Atef

-Tasheed Al-Mabani, Dr. farouq abbas

-Building Architecture by Assist. Prof. Dr. Muhammad Hasan younis & Sherko Karim kader

1	L7. The Topics:	Lecturer's name	
	Weeks No.	Торіс	Dr. Arez
	1	Introduction	Mohammed Ismael
	2-4	Soil and soil components	
	5-7	Material Drawing	
	7-9	Raw Clay bricks- sun dry bricks	
	8-11	Red bricks and paste mixture	

	12-14	Red Brick Types			
	15-16	Stone-types of stone masonry			
	17-19	Concrete blocks			
	20-22	Wood and timber			
	23-26	Concrete			
	27-30	Light weight Concrete			
	31-32	Review			
18. Practical Topics (If there is any)					
Drawing					
19. Examinations:					
Sketches, composition and content written					
20. Extra notes:					
21. Peer review					