



Department of Architectural Engineering
College of
University of Cihan- Sulaimaniya

Subject: Building Technology
Course Book – Year Third.

Lecturer's name: Dr. Nahedh Al-Qemaqchi

Academic Year: 2023/2024

Course Book

1. Course name	Building Technology
2. Lecturer in charge	Assistant Professor Dr. Nahedh Taha AL-QEMAQCHI
3. Department/ College	Department of Architectural Engineering
4. Time (in hours) per week	2hr.
5. Office hours	1hr.
6. Course code	ARC083202
7. Teacher's academic profile	https://uni.sulicihan.edu.krd/qa/profile.php?id=76
8. Keywords	Building Technology, construction
9. Course overview:	Studying and understanding advanced building Techniques; prefabrication and modular structures. Advanced building construction systems, new materials and responsive technologies, sky scrapers (structural & climatically) analysis.
10. Course objective:	This course aims, to discuss and provides the basic concepts of: building construction, building structures, building materials, new technologies in Architectural design.
11. Student's obligation	To understand and deal with the concepts of Building Technology as creative tool in architectural design.
12. Forms of teaching	Theoretical lectures and discussions
13. Assessment scheme	
Midterm Examination	30 %
Paper, Quiz, Project	05%
Discussions	05%
Final Practical Examination	**%
Final theory exam	60%

14. Student learning outcome:

Can deal with the aspects of technology in buildings industry in general and chose the proper technology for his/her design efficiently.

15. Course Reading List and References:

1. The Sky Scrapers, by/ Ken Yeang – 1996/1999
2. Understanding Structures, by Fuller Moore – 1999-
3. Structural Design in Architecture, by James Waly – 1996
4. Pete Silver & Will McLean “Introduction to Architectural Technology” 2nd Ed, Laurence King Publishing Ltd, London, 2008.
5. Andrew Charleson, Structure as Architecture, 2nd Ed., Elsevier, 2015

16. The Topics:

Lecture No	Topic
1	Technology concept & Technology in Architecture
2	Building Techniques
3	Building structures
4	Tectonic & Atechtonic in Architecture
5	The sky scrapers (history & environment)
6	Concrete structure& construction
7	Pre-cast structure & pre-stress beams
8	Shell structure
9	Midterm exam
10	Space frame structure
11	Tent & Cable structure
12	Folding Architecture
13	Sustainable Architecture
14	Intelligent Architecture
Final Examination	

17. Peer review

<p><i>Nahedh</i></p> <p>Main Lecturer incharged</p>	<p>Head of The Department</p>