هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title: Building Construction (1) (إنشاء مباني)
Course Code: DES 361
Program: Interior Design Program
Department: Architecture Department
College: College of Engineering and Information Technology
Institution: Onaizah Private Colleges
Version: Third Version
Last Revision Date: 2025-05-20

Previous Course Specification
https://drive.google.com/file/d/19-n_4JrRakX_vnZaR_koEr7zlYjlMsL0/view

Table of Contents:

A. General information about the course:

Course Identification					
1. Credit hours:	3 Credit Hours [1 Theoretical + 2 Practical]				
2. Course type a. University ☐	College ☐	Department ☒	Track ☐	Others ☐	
b. Required ☒	Elective ☐				
3. Level/year at which this course is offered:	Third Level / Second Year				
4. Course general Description This course introduces students to the fundamental principles of building construction, emphasizing their direct relevance to interior design practice. It covers essential construction methods, structural systems, and commonly used building materials in residential and small-scale commercial projects. Particular focus is placed on the construction and integration of elements such as walls, floors, ceilings, doors, and windows, and how these components influence interior spatial planning, detailing, and environmental performance. Through lectures, technical drawings, and case-based or site-related examples, students will develop a foundational understanding of how buildings are assembled and how construction knowledge informs both functional and creative interior design solutions. The course fosters technical literacy and encourages the integration of construction awareness into the design process from concept development to execution.					
5. Pre-requirements for this course (if any): None					
6. Co- requirements for this course (if any): None					
7. Course Main Objective(s) The objective of this course is to equip interior design students with foundational knowledge of building construction systems, methods, and materials, enabling them to understand how structural and technical aspects influence interior spatial planning and detailing. The course aims to develop students' ability to integrate construction knowledge into the design process, make informed decisions regarding material selection and feasibility, and collaborate effectively with professionals in the built environment to deliver technically sound and functionally responsive interior design solutions.					

1. Teaching mode

No.	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	E-learning		
3	Hybrid • Traditional classroom • E-learning	45 (23) (22)	100%
4	Distance learning		

2. Contact Hours (based on the academic semester)

No.	Activity	Contact Hours
1	Lectures	22
2	Laboratory/Studio	23
3	Field	
4	Tutorial	
5	Others (specify)	
Total		**45**

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	**Knowledge and understanding**			
DES 361.C LO.K.1	Identify basic building materials and their properties relevant to construction and interior design applications	K.2(التصميم برنامج الداخلى Interior Design)	Primary: Lecture Additional: Tutorial	Formative: Homework Summative: Written Exam (MCQ or Essay / F2F or Online)
2.0	**Skills**			
DES 361.C LO.S.1	Illustrate and label construction materials accurately in technical drawings used for interior design documentation	S.3(التصميم برنامج الداخلى Interior Design)	Primary: Interactive Lecture \ Demonstration Additional: Lab Work/Experiment	Formative: Practical Assessment (Rubric) Summative: Project Assessment (Rubric)
DES 361.C LO.S.2	Analyze load applications between different structural systems	S.1(التصميم برنامج الداخلى Interior Design)	Primary: Group Work (competitive or cooperative / Online or F2F) Additional: Lab Work/Experiment	Formative: Presentation (Individual or Group) (Rubric) Summative: Student Portfolio
3.0	**Values, Autonomy, and Responsibility**			
DES 361.C LO.V.1	Demonstrate responsibility and independent judgment in making design	V.3(التصميم برنامج الداخلي Interior Design)	Primary: Discussion (or similar active learning strategies)	Formative: Observation (Instructor/ Students/

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	decisions throughout interior design project development		Additional: Group Work (competitive or cooperative / Online or F2F)	Committee) (Rubric) Summative: Observation (Instructor/ Students/ Committee) (Rubric)

C. Course Content

No.	List of Topics	Contact Hours
1	Introduction to building construction and its relevance to interior design. Class discussion + mind map: How construction affects interior design decisions.	3
2	Site preparation and foundations: types, functions, and interior implications.	3
3	Structural Systems Overview: load-bearing walls, frames, and slabs.	3
4	Construction materials I: characteristics of concrete, brick, and stone.	3
5	Construction materials II: characteristics of wood, steel, and glass Match materials to suitable interior applications; draw a detail using two contrasting materials.	3
6	Floor systems: types, construction methods, and interior floor finishes.	3
7	Wall systems: types of walls, insulation, and partitioning in interiors. Design an interior partition system: select materials, draw a section, and label components.	3
8	Midterm.	3
9	Roof systems: flat and pitched roofs, materials, and ceiling impact.	3
10	Doors and windows: construction, installation, and impact on spatial design.	3
11	Stairs and vertical circulation: types, codes, and space planning considerations.	3
12	Introduction to building codes and standards related to interior construction.	3
13	Construction detailing and documentation for interior spaces.	3
14	Introduction to Building Construction II.	3
15	Final Exam.	3
Total		**45**

D. Students Assessment Activities

No.	Assessment Activities*	Assessment Timing (in Week No.)	Percentage of Total Assessment Score
1	Written Exam (Midterm)	10th	25%
2	Written Exam (Final Exam)	18th	45%
3	Homework	2nd, 6th	10%
4	Presentation (Individual or Group) (Rubric)		
5	Project Assessment (Rubric)	8th	5%
6	Observation (Instructor/ Students/ Committee) (Rubric)		
7	Student Portfolio		
8	Practical Assessment (Rubric)	13th	5%
9	Quizzes	3rd, 11th	10%
			100%

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	- FRANCIS CHING, Building Construction illustrated, 5th Edition, John Wiley & Sons, Inc. N.Y., 2014. - Roy Chudley & Roger Greeno, Building construction handbook, 10th Edition, 2014. - Stephen Emmitt & Christopher Gorse, Barry's advanced construction of buildings, 3rd Edition, 2014. - ERNST NEUFERT, Architect's Data, 3rd Edition, Blackwell Science Ltd, U.K., 2002.
Supportive References	None.
Electronic Materials	- Reviewing of the other electronic scientific references and topics related to the course of the periodicals, with the student doing a survey work that classifies the websites related to the subjects of the course.
Other Learning Materials	- Autodesk AutoCAD, British standards. - Illustrated lectures, Scientific material prepared according to PowerPoint program.

2. Required Facilities and Equipment

Items	Resources
Facilities (Classrooms, Laboratories, Exhibition Rooms, Simulation Rooms, etc.)	Lecture Room, Studio, Gallery.
Technology Equipment (Projector, Smart Board, Software)	Computer, Electric Wiring, Data Show.
Other Equipment (Depending on the nature of the specialty)	Computer for each student with AutoCAD installed (students' laptops).

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Peer Reviewer	Direct (peer classroom observation according to the approved Rubric)
Effectiveness of students' assessment	Faculty/Instructor	Direct (analysis of CLOs assessment results and grade distributions)
Quality of learning resources	Students	Indirect (course evaluation survey)
The extent to which CLOs have been achieved	Faculty/Instructor	Direct (CLOs assessment and analysis of results according to CLOs targets)
	Students	Indirect (Students through course evaluation survey)
Commitment to learning and teaching strategies and assessment methods included in the program and course specifications	Peer Reviewer	Direct (Peer- classroom observation according to the approved Rubric in OC-QMS)
	Department Chair through Students Focus Groups	Indirect (Chair – survey questions to a focus group of students according to OC QMS)
Action Plan Continuity (Closing the Loop)	QAC (Quality Assurance Committee)	Direct (periodic review of course reports and submitting comments to course instructor/coordinator)
Instructor's Support to Students	Students	Indirect (course evaluation survey)

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify)
Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Department of Architecture Council
REFERENCE NO.	11
DATE	2023-05-09

Learning outcomes of this course, as well as CLOs/Teaching Strategies/Assessment Methods matrix have been evaluated and reviewed by multiple OC parties according to OC-QMS. You can access results of these final reviews by scanning the QR code on the right, which contains a link to the reviews on OC-E-QMS.

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