هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title: Building Construction (2) (إنشاء مباني)
Course Code: DES 462
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/1iKC-YSXhw_4FZ2b-elhvmzPfrZMkiNDD/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:	Fourth Level / Second Year
4. Course general Description This course builds upon the foundational knowledge acquired in Building Construction I, focusing on advanced building systems and construction components relevant to interior design. It emphasizes the integration of structural, mechanical, electrical, and environmental systems within interior spaces, analyzing how these systems impact spatial planning, detailing, and material specification. Key topics include advanced floor, wall, and ceiling systems, interior finishes, and the application of building codes, fire safety, and accessibility standards. Students will develop technical skills through construction detailing, case studies, and drawing production, preparing them to create functionally efficient, code-compliant, and aesthetically cohesive interior environments.	
5. Pre-requirements for this course (if any): DES 361	
6. Co- requirements for this course (if any): None	
7. Course Main Objective(s) This course aims to develop students' advanced understanding of construction systems and their application in interior design. It focuses on the integration and coordination of structural, mechanical, electrical, and environmental systems within interior spaces. Emphasis is placed on the accurate interpretation of technical information, adherence to safety codes and accessibility standards, and the strategic selection of materials. Through applied exercises, case studies, and the development of professional construction documents, students will demonstrate the ability to deliver technically sound, code-compliant, and aesthetically cohesive interior design solutions.	

1. Teaching mode

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

2. Contact Hours (based on the academic semester)

No.	Activity	Contact Hours
1	Lectures	15
2	Laboratory/Studio	30
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			
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2.0	Skills			
DES 462.C LO.S.1	Demonstrate effective communication and collaboration skills when working within a design team to coordinate and present interior design solutions	S.6(التصميم برنامج الداخلى Interior Design)	Primary: Group Work (competitive or cooperative / Online or F2F) Additional: Presentations (individual or group)	Formative: Project Assessment (Rubric) Summative: Student Portfolio
DES 462.C LO.S.2	Critically evaluate and produce detailed construction drawings that reflect design intent and technical accuracy for interior design projects	S.3(التصميم برنامج الداخلى Interior Design)	Primary: Interactive Lecture \ Demonstration Additional: Lab Work/Experiment	Formative: Practical Assessment (Rubric) Summative: Written Exam (MCQ or Essay / F2F or Online)
DES 462.C LO.S.3	Select and specify interior finishes and materials appropriate for installation, considering building codes, sustainability, and indoor	S.1(التصميم برنامج الداخلي Interior Design)	Primary: Discussion (or similar active learning strategies) Additional: Project or Research	Formative: Project Assessment (Rubric) Summative: Student Portfolio

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	environmental quality		(individual or group)	
3.0	**Values, Autonomy, and Responsibility**			
DES 462.C LO.V.1	Demonstrate responsible and ethical behavior in making independent design decisions within interior design practice	V.3(التصميم برنامج الداخلى Interior Design)	Primary: Discussion (or similar active learning strategies) Additional: Group Project or Research	Formative: Observation (Instructor/ Students/ Committee) (Rubric) Summative: Student Portfolio

C. Course Content

No.	List of Topics	Contact Hours
1	Course Introduction and Review of Building Construction 1: - Overview of course objectives and assessment. - Recap of foundational construction elements: structural systems, basic finishes. - Importance of coordination between systems in interior design.	3
2	Advanced Floor Systems: - Raised flooring, slab systems, and floor build-ups. - Interior implications: acoustic layers, service integration, floor finishes.	3
3	Advanced Wall Construction and Partitioning: - Load-bearing vs. non-load-bearing interior walls - Drywall systems, demountable partitions, and acoustic insulation techniques.	3
4	Ceiling Systems and Soffits: - Suspended ceilings, integrated lighting, and HVAC concealment. - Detailing coffered, exposed, and acoustical ceilings.	3
5	Damp-Proofing Techniques and Moisture Insulation Materials in Interior Construction	3
6	Moisture Control and Dampness Insulation Materials in Interior Construction: - Dampness insulations materials. - (Flexible Materials - Semi Rigid Materials - Rigid Materials).	3
7	Finishing materials: Floor finishing materials (Wood Floor, Linoleum & Carpet).	3
8	Midterm Exam.	3
9	Application of floor finishing materials.	3
10	Finishing materials: Wall finishing materials (External & Internal plaster).	3
11	Application of wall finishing materials.	3
12	Introduction to Construction Drawings & Working Design.	3
13	Working Drawings Documents (Project).	3
14	Project Submission.	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 Exam)	10th	25%
2	Written Exam (Final Exam)	18th	45%
3	Project Assessment (Rubric)	4th	5%
4	Observation (Instructor/ Students/ Committee) (Rubric)	11th	5%
5	Student Portfolio	14h	5%
6	Practical Assessment (Rubric)	8h	5%
7	Quizzes	4th & 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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