هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title: Interior Design and Sustainability (الاستدامة والتصميم الداخلي)
Course Code: IND 787
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/1mCL1WGdg_kLkn_dgXW10olbnj_30fMct/view

Table of Contents:

A. General information about the course:

Course Identification	
1. Credit hours:	2 Credit Hours [Theoretical]
2. Course type a. University ☐ College ☐ Department ☒ Track ☐ Others ☐ b. Required ☐ Elective ☒	
3. Level/year at which this course is offered:	Seventh Level / Fourth Year
4. Course general Description Building on the foundational principles introduced in the Environmental Design course, this course delves into the application of sustainable practices within the interior design discipline. It emphasizes the environmental, economic, and human health impacts of design decisions, focusing on strategies for creating responsible, resource-efficient, and health-conscious interior environments. Students will explore sustainable material selection, energy-efficient lighting and HVAC systems, water conservation, waste reduction, and methods for enhancing indoor environmental quality. The course introduces key sustainability frameworks and certifications such as LEED, the WELL Building Standard, and the Saudi Green Building Code. Through case studies, technical analysis, and project-based learning, students will develop the ability to integrate sustainable thinking into their interior design proposals, balancing user needs, aesthetics, and ecological responsibility.	
5. Pre-requirements for this course (if any): None	
6. Co- requirements for this course (if any): None	
7. Course Main Objective(s) This course aims to deepen students' understanding of sustainability as it applies specifically to interior design, building on the foundational concepts introduced in the Environmental Design course. It focuses on equipping students with the knowledge and skills necessary to design environmentally responsible interior environments that support human health, well-being, and ecological integrity. Students will explore sustainable design strategies related to energy efficiency, material and product selection, indoor air quality, and water conservation. Emphasis is placed on applying life cycle thinking and evaluating the environmental impacts of design decisions across all stages of the design process. Through analytical and project-based learning, students will learn how to align their design solutions with established sustainability standards and contribute to the creation of interior spaces that are not only functional and aesthetically pleasing but also ethically and environmentally sound.	

1. Teaching mode

No.	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom		
2	E-learning		
3	Hybrid		

No.	Mode of Instruction	Contact Hours	Percentage
	• Traditional classroom • E-learning		
4	Distance learning	30	100%

2. Contact Hours (based on the academic semester)

No.	Activity	Contact Hours
1	Lectures	30
2	Laboratory/Studio	
3	Field	
4	Tutorial	
5	Others (specify)	
Total		**30**

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**			
IND 787.C LO.K.1	Explain the historical development of environmental interior design and its relationship to indoor environmental quality and client-based requirements	K.4(التصميم برنامج الداخلى Interior Design)	Primary: Lecture Additional: Research (Individual or Group)	Formative: Quiz (Online or F2F) Summative: Written Exam (MCQ or Essay / F2F or Online)
IND 787.C LO.K.2	Describe key elements and materials of environmental interior design within the context of healthy, client-centered interior environments	K.4(التصميم برنامج الداخلى Interior Design)	Primary: Research (Individual or Group) Additional: Discussion (or similar active learning strategies \ F2F or Online)	Formative: Homework Summative: Research Summary (Rubric)
2.0	**Skills**			
IND 787.C LO.S.1	Apply sustainable interior design elements and materials in accordance with green building standards and sustainability codes	S.1(التصميم برنامج الداخلى Interior Design)	Primary: Interactive Lecture \ Demonstration Additional: Presentations (Individual or Group)	Formative: Research Assessment (Rubric) Summative: Case Study (Individual or Group) (Rubric)

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
IND 787.C LO.S.2	Design environmentally responsible interior spaces by incorporating renewable, recycled, and low-impact materials to enhance indoor environmental quality	S.2(التصميم برنامج الداخلى Interior Design)	Primary: Project or Research (Individual or Group) Additional: Case Study (Individual or Group)	Formative: Presentation (Individual or Group) (Rubric) Summative: Project Assessment (Rubric)
3.0	**Values, Autonomy, and Responsibility**			
IND 787.C LO.V.1	Demonstrate the application of ethical principles, sustainability standards, and professional norms in the design of environmentally responsible interior spaces	V.2(التصميم برنامج الداخلي Interior Design)	Primary: Independent Study or Research Additional: Discussion (or similar active learning strategies)	Formative: Observation (Instructor/ Students/ Committee) (Rubric) Summative: Case Study (Individual or Group)

C. Course Content

No.	List of Topics	Contact Hours
1	Introduction to Sustainability in Interior Design: - Definitions and dimensions of sustainability. - Relationship between environmental design and interior practice.	2
2	Global and Local Environmental Challenges: - Climate change, resource depletion, and pollution. - Sustainability challenges in Saudi Arabia and regional contexts.	2
3	Sustainable Design Principles and Frameworks: - Cradle to Cradle, Circular Design, Life Cycle Thinking. - Principles of reduce, reuse, recycle.	2
4	Green Building Certifications and Standards: - Overview of LEED, WELL, BREEAM, and Saudi Green Building Code. - Relevance to interior design practice.	2
5	Material Health and Sustainable Material Selection: - Renewable, recyclable, and low-VOC materials. - Indoor air quality and material toxicity.	2
6	Life Cycle Assessment (LCA) in Interior Design: - Environmental impacts of interior products across life stages. - Case studies in flooring, wall finishes, and furnishings.	2
7	Sustainable Furniture and Fixtures: - Responsible sourcing, modularity, and long-life design. - Ergonomics and user-centered design integration.	2
8	Mid Term Exam.	2
9	Energy-Efficient Lighting and Daylighting: - LED and sensor-based systems. - Impact of natural light on sustainability and user health.	2
10	HVAC Systems and Indoor Environmental Quality (IEQ): - Thermal comfort, ventilation, and acoustics. - Passive and active HVAC strategies.	2
11	Water Conservation Strategies: - Fixtures, fittings, and finishes that promote water efficiency. - Graywater systems and indoor water-saving solutions.	2

12	<u>Waste Reduction in Interior Fit-Outs:</u> - Construction waste, demolition recycling, and sustainable installations. - Deconstruction vs. demolition.	2
13	<u>Cultural and Ethical Considerations in Sustainable Design:</u> - Designing for social responsibility and equity. - Ethical sourcing, fair labor, and community impact.	2
14	<u>Sustainable Innovation and Digital Tools:</u> - Smart interiors, sustainable BIM practices, digital twins. - Emerging technologies and innovation in sustainable interiors.	2
15	<u>Final Presentations and Reflective Discussion:</u> - Student project presentations integrating sustainable design. - Class discussion on lessons learned and future applications.	2
Total		**30**

D. Students Assessment Activities

No.	Assessment Activities*	Assessment Timing (in Week No.)	Percentage of Total Assessment Score
1	Research Assessment (Rubric) + Presentation (Individual or Group) (Rubric)	3rd	5%
2	Project Assessment (Rubric)	12th	5%
3	Research Summary (Rubric)	6th	5%
4	Written Exam (Midterm Exam) (MCQ or Essay / F2F or Online)	8th - 10th	25%
5	Written Exam (Final Exam) (MCQ or Essay / F2F or Online)	16th	45%
6	Quiz (Online or F2F)	4th	5%
7	Homework + Case Study (Individual or Group) (Rubric)	8th	5%
8	Observation (Instructor/ Students/ Committee) (Rubric) + Case Study (Individual or Group)	12th	5%
			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	- (NCARB), The National Council of Architecture Registration Boards. 2022. Sustainable Design. - Sian Moxon, Sustainability in Interior Design March 21, 2012. - Material Revolution: Sustainable Multi-Purpose Materials for Design 1st Edition, 2011. - The Shape of Green: Aesthetics, Ecology, and Design Paperback – June 11, 2012. - Designing Sustainable Residential and Commercial Interiors: Applying Concepts and Practices, 2011.
Supportive References	None.
Electronic Materials	None.
Other Learning Materials	None.

2. Required Facilities and Equipment

Items	Resources
Facilities (Classrooms, Laboratories, Exhibition Rooms, Simulation Rooms, etc.)	Lecture Hall, Studio Hall.
Technology Equipment (Projector, Smart Board, Software)	Data Show, Smart Board, Applications Software
Other Equipment (Depending on the nature of the specialty)	None.

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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