هيئة تقويم التعليم والتدريب
Education & Training Evaluation Commission

T-104
2022

Course Specification

Course Title: Construction Drawings (الرسومات التنفيذيّة)
Course Code: IND 774
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/1ojq-bqdmlogNDEXJ_1jE81mX6pJDjFnP/view

Table of Contents:

A. General information about the course:

Course Identification	
1. Credit hours:	4 Credit Hours [1 Theoretical + 3 Practical]
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 This course introduces students to the principles, techniques, and standards required to produce professional construction drawings for interior design projects. It focuses on translating conceptual design ideas into precise technical documentation used for construction, coordination, and communication with consultants and contractors. Students will develop the ability to generate detailed 2D drawings, including floor plans, reflected ceiling plans, elevations, sections, and custom joinery, following industry-standard drafting conventions and annotation practices. Emphasis is placed on drawing accuracy, line weight, dimensioning, material specifications, and the integration of building components. The course also covers essential knowledge of building code requirements, construction detailing, and the role of technical drawings in the design documentation process. By the end of the course, students will be able to prepare a comprehensive set of construction documents that clearly communicate the technical aspects of interior design intent in alignment with professional and regulatory standards.	
5. Pre-requirements for this course (if any): IND 566	
6. Co- requirements for this course (if any): None	
7. Course Main Objective(s) The objective of this course is to develop students' proficiency in producing detailed construction drawings that accurately convey interior design concepts and translate them into buildable, code-compliant solutions. The course introduces students to professional drafting standards, technical conventions, and documentation methodologies essential for effectively communicating design intent to contractors, consultants, and regulatory authorities. Students will learn to create comprehensive drawing sets—including floor plans, sections, elevations, and detail views—using correct symbols, line weights, dimensions, annotations, and material specifications. Emphasis is placed on accuracy, clarity, regulatory compliance, and coordination across design components. By the end of the course, students will be capable of preparing a complete and professional set of interior construction documents that reflect industry standards and best practices.	

1. Teaching mode

No.	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	105	100%
2	E-learning		

No.	Mode of Instruction	Contact Hours	Percentage
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	90
3	Field	
4	Tutorial	
5	Others (specify)	
Total		**105**

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 774.C LO.K.1	Describe the key components of an interior construction project, including materials, functional zones, and equipment, as represented through construction drawings	K.2(التصميم برنامج الداخلى Interior Design)	Primary: Lecture Additional: Discussion (or similar active learning strategies \ F2F or Online)	Formative: Research Summary (Rubric) Summative: Student Portfolio
IND 774.C LO.K.2	Explain drawing classification systems in relation to industry standards for workmanship, materials, safety, and professional documentation practices	K.4(التصميم برنامج الداخلى Interior Design)	Primary: Research (Individual or Group) Additional: Lecture	Formative: Homework Summative: Research Summary (Rubric)
IND 774.C LO.K.3	Discuss guidelines for preparing construction documents, emphasizing the coordination between drawings and specifications in alignment with	K.4(التصميم برنامج الداخلى Interior Design)	Primary: Discussion (or similar active learning strategies \ F2F or Online) Additional: Group Work (competitive	Formative: Homework Summative: Research Summary (Rubric)

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	safety, ethical, and professional standards		or cooperative / Online or F2F)	
IND 774.C LO.K.4	Identify the fundamentals of drawing and drafting as applied to specialty drawings and construction details, with attention to client needs, safety, and professional standards	K.4(التصميم برنامج الداخلى Interior Design)	Primary: Video Additional: Tutorial	Formative: Homework Summative: Homework
2.0	**Skills**			
IND 774.C LO.S.1	Produce detailed construction drawings for interior design projects using appropriate drafting techniques, tools, and industry standards	S.5(التصميم برنامج الداخلى Interior Design)	Primary: Presentations (Individual or Group) Additional: Discussion (or similar active learning strategies)	Formative: Presentation (Individual or Group) (Rubric) Summative: Research Assessment (Rubric)
IND 774.C LO.S.2	Create construction drawing conventions and graphical representations, including specialty drawings and detailed views, using appropriate	S.5(التصميم برنامج الداخلى Interior Design)	Primary: Interactive Lecture \ Demonstration Additional: Discussion (or similar active learning strategies)	Formative: Research Assessment (Rubric) Summative: Student Portfolio

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	design tools and techniques			
IND 774.C LO.S.3	Produce furniture, furnishings, and equipment (FF&E) plans according to industry standards and material specifications using appropriate drawing tools and techniques	S.5(التصميم برنامج الداخلى Interior Design)	Primary: Lab Work/Experiment Additional: Group Work (competitive or cooperative / Online or F2F)	Formative: Practical Assessment (Rubric) Summative: Presentation (Individual or Group) (Rubric)
3.0	**Values, Autonomy, and Responsibility**			
IND 774.C LO.V.1	Demonstrate ethical responsibility and professional conduct in the preparation and organization of contract documents for interior design projects	V.2(التصميم برنامج الداخلى Interior Design)	Primary: Lab Work/Experiment Additional: Discussion (or similar active learning strategies)	Formative: Oral Exam or Interview (Rubric) Summative: Student Portfolio
IND 774.C LO.V.2	Demonstrate the application of safety precautions and professional responsibility in the development of interior construction project drawings	V.2(التصميم برنامج الداخلى Interior Design)	Primary: Discussion (or similar active learning strategies) Additional: Group Work (competitive or cooperative / Online or F2F)	Formative: Oral Exam or Interview (Rubric) Summative: Observation (Instructor/ Students/ Committee) (Rubric)

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
IND 774.C LO.V.3	Integrate safety provisions and ethical standards in the coordination of construction drawings and specifications	V.2(التصميم برنامج الداخلى Interior Design)	Primary: Independent Study or Research Additional: Discussion (or similar active learning strategies)	Formative: Oral Exam or Interview (Rubric) Summative: Student Portfolio

C. Course Content

No.	List of Topics	Contact Hours
1	Course Introduction: - First Day Material + Course Specification + Lecture.	7
2	Introduction to Construction Drawings: - Definition and purpose of construction drawings in the building process. - Overview of different types of drawings, including architectural, structural, mechanical, and electrical. Case studies: Analyzing successful projects and their construction drawings.	7
3	Basics of Technical Drawings: - Drafting standards and conventions. - Line types, symbols, and annotations. - Scale and dimensions technique.	7
4	Reading and interpreting construction drawings: - Understanding plan, section, and elevation views. - Interpreting legends, schedules, and notes. - Navigating between different drawing sets. Group discussion, Group exercise, Quiz on drawing.	7
5	Architectural Drawings: - Floor plans, elevations, and sections. - Key elements: like doors, windows, and finishes.	7
6	Structural drawings: - Foundation plans, framing layout, and reinforcement details. - Load paths and structural elements [beams, columns, slabs]. - Structural abbreviations and symbols. Group discussion: Analyze a simple structural plan and discuss load distribution.	7
7	Mechanical, Electrical, and Plumbing drawings: - HVAC Layouts, ductwork, and mechanical systems. - Electrical wiring diagram, lighting plans, and circuits. - Plumbing layouts, pipe works, and fixtures. Group task: Create a basic MEP layout for a small office.	7
8	Construction Detailing: - Wall sections, roof details, and staircases.	7

9	Midterm.	7
10	Digital tools and software: - Introduction to CAD and BIM software (AutoCAD, Revit). Group discussion: comparing manual drafting to digital drafting.	7
11	Legal and Contractual Aspects (Real-World Applications): - Importance of accuracy and compliance. - Role of drawings in construction contracts. - Handling revisions and as-built drawings. Case studies: how errors in drawings impacted a project.	7
12	Hands-On Drawing Practice: - Engaging in practical exercises to create and modify construction drawings. - Utilizing software tools for drafting and design, such as AutoCAD or Revit.	7
13	Final Project: Semi Final - Create a complete set of construction drawings for a project.	7
14	Final Presentation and Submission.	7
15	Final Portfolio.	7
Total		**105**

D. Students Assessment Activities

No.	Assessment Activities*	Assessment Timing (in Week No.)	Percentage of Total Assessment Score
1	Research Assessment (Rubric)	2nd	5%
2	Student Portfolio	15th	45%
3	Midterm	8th	25%
4	Homework	5th	5%
5	Research Summary (Rubric)	9th	5%
6	Practical Assessment (Rubric)	10th	5%
7	Presentation (Individual or Group) (Rubric)	7th	5%
8	Observation (Instructor/ Students/ Committee) (Rubric) + Oral Exam or Interview (Rubric)	13th	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	- Construction Drawings and Details for Interiors: Basic Skills, 2nd edition By Rosemary Kilmer, W. Otie Kilmer 2009. - Building Construction Illustrated. (4th Ed.), by Ching, F. and Adams, C. 2000. - Interior Construction Documents, by Ankerson, K. 2003. - Interior Construction and Detailing for Designers and Architects, 4th edition, by Ballast, D. 2007.
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, Computer Lab.
Technology Equipment (Projector, Smart Board, Software)	Computers, 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.	Click Here