جامعة حائل
University of Ha'il

Interior Design Engineering Program Guide

Content

Introduction

The Interior Design engineering program at University of Hail was established in 1437 AH is one of the programs that contribute to improving the surrounding environment and productivity, whether in public or private places.

In line with the vision of the Kingdom 2030, the Interior Design engineering program aims to graduate qualified interior designers to meet the needs of the labor market, research services, and provide a community, which supports a sustainable urban development in the Kingdom of Saudi Arabia.

The main focus of the program is graduating students, who are familiar with basic knowledge of fundamental engineering, applying their skills on the field and having a creative thinking, as well as applying the purposeful critical thinking according to the standards in the field.

The goal of faculties in the interior design engineering program is to develop the skills of the applicants to enter the field with cognitive, personal skills, and creative abilities.

Program Vision

Distinguishing locally and regionally in interior design engineering to improve the functionality, technologies and aesthetics of interior spaces with the aim of ensuring the safety and comfort of users.

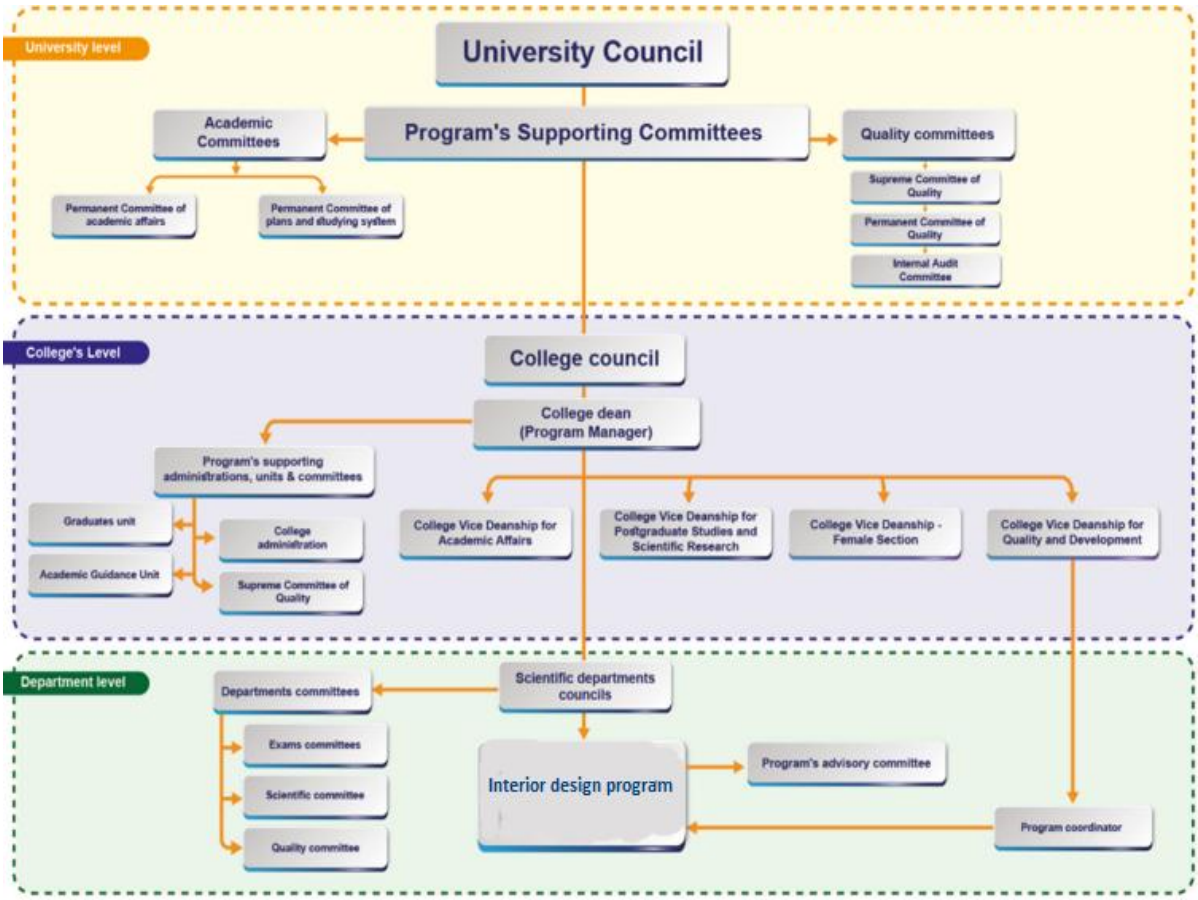
Program Mission

Preparing qualified engineers in the field of interior design engineering by developing specialized engineering knowledge and skills, conducting innovative engineering research, providing services and consulting the community, and participating in improving quality of life.

Program Goals & Objectives

- Preparing female engineers specialized in decoration and interior design engineering, qualified for the labor market.
- Preparing engineering research according to modern and sustainable technical trends in the field of interior design engineering.
- Providing quality consultations specialized in the field of interior design engineering.
- Preserving the cultural and engineering heritage through innovative engineering ideas.

Organization Chart of Program



Policies and Regulations

1- Students Admission Requirements:

1. The applicant must be a Saudi National or born to a Saudi Mother, or those excluded by laws and regulations or the national interest
2. Students must be a holder of a valid high school secondary education (grade 12th) certificate (scientific and engineering track) or its equivalent from inside or outside the kingdom.
3. The period of the obtained high school secondary education (grade 12th) certificate (scientific and engineering track) or its equivalent, not more than two to five years if there are available study seats, and the University Council may make an exception from this condition if convincing reasons are available.
4. The applicant must maintain a good conduct.
5. The applicant must not be dismissed from the University of Hail or from another university for an academic or disciplinary term
6. To be medically fit
7. The applicant must pass the General Aptitude Test (GAT) and the Scholastic Achievement Admission Test for scientific (Sc) tracks in particular.

➢ Rules and regulation for selecting Bachelor of Interior Design Engineering (IDE) specialization upon finishing the preparatory year are:

- ❖ The student must pass the scientific and engineering preparatory year with a grade point average (GPA) of 3.5 out of 4 according to the UOH grading system.
- ❖ The student should be medically fit before selecting a major, must pass a medical examination to prove that she is free of infectious diseases and physically/mentally healthy to complete the program of study.

2- Graduation Requirements :

Students in the Interior Design Engineering (IDE) program are required to complete 132 semester-credit-hours covering general educational requirements, core requirements and some elective courses.

Graduate Attributes :

Graduates of Bachelor of Interior Design Engineering program will be particularly distinguished by the following attributes:

1. - Well equipped with knowledge and technical skills in the field of interior design to find appropriate solutions to the problems encountered in his field of work.
2. - Excellent in conducting original design in the field of interior design.
3. -Able to work productively individually or in a team framework that includes different disciplines.
4. - Good diagnose, formulate and solve issues related to interior design.
5. - Effective understanding of professional responsibilities and professional ethics.
6. - Aware of the importance of interior design solutions in their economic, environmental and social context.

Program Intended Learning Outcomes (PLO's)

A successful learner from lDE Program will be able to:

K. Knowledge and Understanding:

K1 Explain the basics of physical sciences and mathematics relevant to Interior Design engineering.

K2 Describe the advanced construction techniques used in the interior design of buildings, and the method of using them.

K3 Define the properties of Thermodynamics, the principles of Calculus, Structural Mechanics and Engineering Fluid Mechanics.

K4 Know interior design history, processes, materials, methods, practices, and terminology.

K5 Understand the research methodology, legal requirements, business organization and management in the field of interior design.

S. Skills:

S1 Practice engineering fundamentals in solving and analyzing routine problems in interior design engineering.

S2 Develop innovative solutions to contemporary issues and problems in the field of interior design.

S3 Use advanced and specialized processes, tools, software, materials and devices, in dealing with practical activities related to the interior design specialization.

Program Intended Learning Outcomes (PLO's)

S4 Apply physical and oral presentation, communication skills to prepare written reports, and use new information research tools.

S5 Perform a range of practical tasks, standards, and guidelines that impact human experience of interior spaces.

V. Values:

V1 Demonstrate sense of leadership and responsibility while working with others in terms of ethics and time management.

V2 Learn independently and develop continuously on the personal and professional level.

Study Plan of the Program

First Year(FRESHMAN) First Semester						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 101	INTRODUCTION TO INTERIOR DESIGN	1	1	0		
IDE 101 P	IDE 101 P INTRODUCTION TO INTERIOR DESIGN	2	0	4		
IDE 151	HISTORY OF INTERIOR DESIGN	2	2	0		
PHYS 101	PHYSICS I	4	3	3		MATH 101
MATH 101	CALCULUS I	4	4	0		PHYS 101
ENGL 110	WRITING SKILLS	3	3	0		
IC 101	INTRODUCTION TO ISLAMIC CULTURE	2	2	0		
Total (CREDIT)		18				

First Year (FRESHMAN) Second Semester						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 102	INTRODUCTION TO INTERIOR DESIGN II	1	1	0	IDE101	IDE102P
IDE 102 P	INTRODUCTION TO INTERIOR DESIGN II	2	0	4		IDE102
IDE131	DRAWING AND COLORS	2	0	4		
IDE 141	CAD I FOR INTERIOR DESIGN	2	0	4		
MATH 102	CALCULUS II	4	4	0	MATH 101	
ENGL 214	TECHNICAL REPORT WRITING	3	3	0	ENGL 110	
ARAB 101	ARABIC LANGUAGE SKILLS	2	2	0		
Total (CREDIT)		16				

Study Plan of the Program

Second Year(SOPHOMORE) First Semester						
Code	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 201	INTERIOR DESIGN I	4	0	8	IDE 102	
IDE 221	ENVIRONMENT I: THERMAL	3	3	0		
IDE 211	INTERIOR MATERIALS AND TECHNOLOGIES	3	3	0		
IDE 213	CONSTRUCTION SYSTEMS	3	3	0		
CE 201	STATICS	3	3	0		PHYS 101
IC 102	Islamic and Society Building	2	2	0		
Total (CREDIT)		18				

Second Year(SOPHOMORE) Second Semester						
Code	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 202	INTERIOR DESIGN II	4	0	8	IDE201	
IDE221	Environment II: Heating, Ventilating and Air conditioning	2	2	0	IDE221	IDE222P
IDE222 P	Environment II: Heating, Ventilating and Air conditioning	1	0	2	IDE221	IDE222
IDE 224	History of interior design II	2	2	0	IDE 151	
IDE 242	CAD II 3D Design	2	0	4	IDE 141	
IDE 232	Model Making for interior design	2	0	4		
ARAB 102	ARABIC composition	2	2	0		
Total (CREDIT)		15				

Study Plan of the Program

Third Year (JUNIOR) First Semester						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 301	INTERIOR DESIGN III	4	0	8	IDE 202	
IDE 323	ENVIRONMENT III: ILLUMINATION	2	2	0		IDE 323P
IDE 323 P	ENVIRONMENT III: ILLUMINATION	1	0	2		IDE 323
IDE 313	CONSTRUCTION DETAILS	2	2	0	IDE 213	
IDE 315	TEXTILES	3	1	4		
IDE 327	HUMAN BEHAVIOR	3	3	0		
IC 103	ECONOMICS SYSTEM IN ISLAM	2	2	0		
Total (CREDIT)		17				

Third Year (JUNIOR) Second Semester						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 302	INTERIOR DESIGN IV	4	0	8	IDE 301	
IDE 324	ENVIRONMENT IV: ACOUSTICS	2	2	0		IDE 324P
IDE 324 P	ENVIRONMENT IV: ACOUSTICS	1	0	2		IDE 324
IDE 326	FURNITURE DESIGN	3	0	6		
IDE 328	WORKING DRAWING FOR INTERIOR DESIGN I	3	0	6	IDE 313	
IDE 3XX	IDE ELECTIVE I	3	3	0		
Total (CREDIT)		16				

Study Plan of the Program

Fourth Year (SENIOR) First Semester						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 401	INTERIOR DESIGN V	4	0	8	IDE 302	
IDE 451	PROJECT REPORT WRITING	2	2	0		
GS 4XX	TECHNICAL ELECTIVE	3	0	0		
IDE 435	WORKING DRAWINGS FOR INTERIOR DESIGN II	3	0	6	IDE 328	
IDE 453	PROFESSIONAL PRACTICE OF INTERIOR DESIGN	3	3	0		
IDE 456	HANDCRAFT	2	0	4		
Total (CREDIT)		17				

Fourth Year (SENIOR) Second Semester						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 402	CAPSTONE PROJECT	4	0	8	IDE 401	
IDE 454	PROJECT CONSTRUCTION MANAGEMENT	3	3	0		
IDE 426	SUSTAINABLE INTERIOR DESIGN	3	3	0		
IDE 4XX	IDE ELECTIVE II	3	3	0		
IC 104	BASICS OF POLITICAL SYSTEM IN ISLAM	2	2	0		
Total (CREDIT)		15				

Elective Courses

DEPARTMENT ELECTIVE COURSES (ONLY 6 CREDIT HOURS)						
CODE	**COURSE TITLE**	**CRED**	**LECT**	**LAB**	**PRE-REQUISITE**	**CO-REQUISITE**
IDE 311	**BUILDING MATERIALS**	**3**	**3**	**0**		
IDE 352	**DAY LIGHTING ANALYSIS AND DESIGN**	**3**	**3**	**0**		
IDE 357	**INTRODUCTION TO BUILDING MAINTENANCE MANAGEMENT**	**3**	**3**	**0**		
IDE 458	**QUANTITATIVE METHODS IN CONSTRUCTION MANAGEMENT**	**3**	**3**	**0**		
IDE 459	**CONTRACTS AND SPECIFICATIONS**	**3**	**3**	**0**		
IDE 490	**SPECIAL TOPICS IN ARCHITECTURAL ENGINEERING**	**3**	**3**	**0**		
TOTAL (CREDIT)		**(ONLY 6 CREDIT HOURS)**				

GENERAL STUDIES EELECTIVES (GS XXX)						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	**CO-REQUISITE**
ISE 307	ENGINEERING ECONOMIC ANALYSIS	3	2	3		
ARE 413	CONSTRUCTION MANAGEMENT	3	3	0		
ARE 431	BUILDING ECONOMY	3	3	0		
TOTAL (CREDIT)		**(ONLY 3 CREDIT HOURS)**				

Courses Description

INTERIOR DESIGN GROUP (X 0 X)

IDE 101 INTRODUCTION TO INTERIOR DESIGN I (1-1-0) : CO-REQUISITE (IDE 101 P) IDE 101 P INTRODUCTIONS TO INTERIOR DESIGN 1 (2-0-4): CO-REQUISITE (IDE 101)

The course exposes students to interior design as a profession and provides an outline for future courses. It introduces the processes of interior design (goals and budget, information, Design Concept Presentation and Approval, Scheduling, Procurement, Design and Trades Implementation, Installation & Accessorizing, Refinement Punch List, Professional Photography) and the different aspects and considerations involved. Further, the course provides the student with the profession of interior design such as design basics, planning, materials and elements, furniture, textiles, lighting, color, art and accessories, kitchens and bathrooms, public spaces, human factors, design history, working methods, systems, and business practices.

IDE 102: INTRODUCTION TO INTERIOR DESIGN II (1-1-0): (PRE-REQUISITE: IDE 101) (CO-REQUISITE(IDE 102 P) IDE 102 P INTRODUCTIONS TO INTERIOR DESIGN II (2-0-4): (PRE-REQUISITE: IDE 101) (CO-REQUISITE (IDE 101)

This course explores the physical properties of interior design including building construction, interior components and materials, furnishings, and furniture arrangement. The course also enables the students to explore the relationship between the user and spatial form, function and material within the context of Interior Design.

IDE 201: INTERIOR DESIGN I (4-0-8): (PRE-REQUISITE IDE 102)

This course is considered as an application of interior design elements and principles. Students in this course are going to cover; an introduction to the programming, schematic design, and conceptual design phases with an emphasis on material selection, as well as investigation of material components used by the designer, focusing on accessibility, human factors, space planning, and electrical/lighting components.

IDE 202: INTERIOR DESIGN II (4-0-8):(PREREQUISITE: IDE 201)

This subject focuses on the practical application of all the theory subjects in the design studio. It aims at allowing the students to develop their designing skills by actually getting involved with progressively difficult design problems, and learns how to create comfortable functional and aesthetically appealing harmonious interior environment.

Courses Description

INTERIOR DESIGN GROUP (X 0 X)

IDE 301 INTERIOR DESIGN III (4-0-8): (PREREQUISITE: IDE 202)

This course covers studies on multi-functional spaces. Design of medium to large space of medium complexity (several functions together) to introduce commercial designs like small shops, offices, etc. Site visits: site visits to complete buildings pertaining to design problems, group discussions among students, special discussions shall also be arranged with senior students, students should also play roles of clients, contractors and consultants. Study of groups of objects forms, masses with basic geometric forms, their compositions, for two- and three-dimensional study in relation with basic design.

IDE 302 INTERIOR DESIGN IV (4-0-8): (PREREQUISITE: IDE 301)

This studio course incorporates interior design problems of highly complex nature are to be tackled by students; it relates to the study and design of commercial spaces, with a focus on corporate workplaces and hospitality spaces. The components of this course include advanced application of interior design concepts, code requirements, and client presentations.

IDE 401 INTERIOR DESIGN V (4-0-8): (PREREQUISITE: IDE 302)

Interior design problems of highly complex nature are to be tackled by the students in this course. It aims at allowing the students to develop their designing skills by actually getting involved with progressively difficult design problems. students are expected to apply their knowledge while designing in a form like computer graphics, working details, practical knowledge regarding execution of the project.

IDE 402 CAPSTONE PROJECT (4-0-8): (PREREQUISITE: IDE 401)

In this course, the students are required to prepare independent project with help of knowledge acquired within their study. Students are expected to enter in highly competitive professional world after completing this project work, so he is expected to put all their efforts with skills regarding design, working details, technology, materials, and computers.

Courses Description

CONSTRUCTION GROUP (X 1 X)

IDE 211: INTERIOR MATERIALS AND TECHNOLOGIES (3-3-0)

This course introduces students to the art and science of building, these topics are then further, and various design strategies, materials, fabrication techniques, and informative built works are explored. The material in class requires students to have some experience and understanding of architectural design, drawings and details. The course will cover the following units; Unit No. 1: Brick: Qualities of good brick. Field test, terminology. Precautions to be taken in brick laying & size. Unit No. 2: Stone. Classification. Qualities of good stone, Laying and Dressing. Different textures and applications. Unit No. 3: Sand. Types and application Unit No. 4: Timber Types Cross sections of exogenous tree. Defects in timber, seasoning. Application in interior. Application of artificial timber e.g., veneers plywood. Unit No. 5: Cement. Types. Field test for cement. Application of cement Unit No. 6: Mortar: Types. Application Unit No. 7 Clay Products. Types. Application Unit No. 8: Lime. Types. Application Unit No. 9: Miscellaneous Materials. Gypsum. Sound Absorbent Materials Unit No. 10: Stone Ware and Porcelain. Application in Interior Design.

IDE 213: CONSTRUCTION SYSTEMS (3-3-0)

This lecture course covers standard interior building systems including partitions, ceilings, floors, and stairs, as well as glazing, woodwork, hardware, structural coordination, barrier free design, international building code. Moreover, the topics covers information about floors, walls, ceilings and other construction methods in lectures and discussions format.

IDE 313: CONSTRUCTION DETAILS (2-2-0):
(PREREQUISITE: IDE 213)

This course covers latest technologies of combined different materials together, e.g. false ceiling, flooring materials and their construction technics, partitions, doors, windows, metals, fittings and appliances.

Courses Description

ENVIRONMENT GROUP (X 2 X)

IDE 221: ENVIRONMENT I - THERMAL CONTROL (3-3-0)

This course enables students to understand the effects of the thermal environment on people, learns to assess and control the risks associated with thermal stress, learns and Identify sources of thermal stress within the working environment. As well as understanding the nature of thermal strain on the body, assess the thermal environment through measurement and other methods evaluate risk from exposure to thermal stress, and Suggest appropriate control methods for the thermal environment.

IDE 222: ENVIRONMENT II: HEATING, VENTILATING, AND AIR CONDITIONING (2-2-0): (CO- REQUISITE (IDE 222 P)
IDE 222P: ENVIRONMENT II: HEATING, VENTILATING, AND AIR CONDITIONING (1-0-2):(CO- REQUISITE (IDE222)

This course concentrates on vertical transportation, etc… study of different type of systems used for high rise structures like water supply systems (hot & cold), fire protection system, ducts, drainage system, garbage system, refuse chutes etc. Type of A.C: Fundamental principles and engineering procedures for the design of heating, ventilating, and air conditioning systems; HVAC system characteristics; system and equipment selection; duct design and layout. Energy conservation techniques. Computer applications.

IDE 323: ENVIRONNEMENT III– ILLUMINATION (2-2-0): (CO-REQUISITE (IDE P) IDE 323p: ENVIRONMENT III– ILLUMINATION (1-0-2): (CO-REQUISITE (IDE 323)

Introduction, natural lighting, artificial lighting, concept of light, vision and colors. Luminaries and lamps. Lighting system design procedures; calculation and measurement techniques, evaluation of interior lighting quality and day lighting. Computer applications in artificial and day lighting analysis and design.

Courses Description

ENVIRONMENT GROUP (X 2 X)

IDE 324: ENVIRONMENT IV – ACOUSTICS (2-2-0): (CO-REQUISITE (IDE 324P)

IDE 324P: ENVIRONMENT IV – ACOUSTICS (2-2-0):: (CO-REQUISITE (IDE 324)

Introduction to architectural acoustics. Room acoustics and noise sources, measurements, and control. Acoustical properties of materials and room shapes. Acoustics and sound insulating materials. Sound absorption and transmission. Different methods of reduction & insulation of unwanted sound Computer applications in room acoustics simulation.

IDE 327: HUMAN BEHAVIOR (3-3-0)

This course introduces students to the basic psychology of designing spaces and places for human occupancy. Concepts introduced provide students with a basic knowledge of crowding, territoriality, attitudes relative to personal space, personality, and the definition of space and privacy as they relate to both residential and non-residential environments. Other concepts include managing limited resources and the design of habitable environments.

IDE 426: SUSTAINABLE INTERIOR DESIGN (3-3-0)

Students should know the efficient use of the natural resources is vitally important to our futures. This course enables students applying of different policies to attain the Concept of Sustainable interiors designing, understand the Principles, Environment Quality and concept of green interiors.

Courses Description

DRAWING GROUP (X 3 X)

IDE 131: DRAWING AND COLOURS (2-0-4)

Study and application of perspective drawing techniques and color rendering techniques as they relate to exterior and interior spaces, focuses on use of drafting equipment as a mean of visually communicating solutions to architectural design problems. This includes a study of drafting symbols, isometric and oblique drawings, sections, floor plans, and elevations. As well as laboratory course dealing with colors, theory and design principles.

IDE 328: WORKING DRAWING FOR DESIGN I (3-0-6): (REREQUISITE: IDE 313)

This subject provides the technical base for the execution of the designer's ideas. Students learn to make technical drawings explaining to the workmen how to execute the design in actual.

IDE 435: WORKING DRAWING FOR INTERIOR DESIGN II (3-0-6): (REREQUISITE: IDE 328)

This subject provides the technical base for the execution of the designer's ideas. As well as makes technical drawings explaining to the workmen how execute the design in actual. Contents: Working drawing and details of two to three interior design projects in both the semesters (preferably the student's own designs done in the second year. One residential project and other commercial project) should be completed by the students and presented as portfolios, minimum one portfolio should be done by hand drafting and others by computerized Drafting.

Courses Description

CAD GROUP (X 4 X)

IDE 141: CAD I FOR INTERIOR DESIGN (2-0-4)

Introduction to the techniques and applications of computer aided design in the context of architectural design. Emphases in the use of computer to seek, produce, manage, and exchange graphical information in the design process. Topics include introduction to personal computing in an office environment, two-dimensional editing and modifying techniques, standard layering system, associative dimensioning, blocks and external referencing system, layout management, CAD and the Internet. Introduction to computer programming to automate drafting functions.

IDE 242: CAD II 3D DESIGN (2-0-4): (PREREQUISITE: IDE 141)

This course covers new 3D workspace environment, new render engine, materials, lights & cameras. Interactive 3D shapes (real-time drag and draw). Sub-object editing (face, edge, vertex & Boolean history). Grip-edit nodes for 3D AutoCAD objects, dynamic UCS or ducks (temporarily switch to 3D face). Extrudes objects (convert any 2D object into a surface). Enhances visual objects, polysolid object (3d solid relative of a polyline), new sweep command (extrude along a path), new loft command (enhanced curved shapes). New press pull (isolates regions punch / extrude), and new surface command (from slice command).

Courses Description

MANAGEMENT GROUP (X 5 X)

IDE 451: PROJECT REPORT WRITING (2-2-0)

This course involves research and writing appropriate to the field of interior design. Addresses design opportunities, including the skills of problem identification, formulation, qualitative and quantitative research, analysis, synthesis, and project proposals for interior design as well as introduces to techniques and methods of evaluative research.

IDE 453: PROFESSIONAL PRACTICES FOR INTERIOR DESIGNERS (3-3-0)

This course defines the profession and explains its history. The course includes topics of professional conduct and proper business procedures. It explains allied professions and advisors, differences in business formations, management strategies, job descriptions, legal responsibilities, financial management, preparation of design contracts, marketing, and relationships with trade sources, contract administration, and career options. Students in this course become familiar with, history of the profession of interior design, professional business structures internationally and locally. relationships with allied professions. legal issues specific to the profession. management techniques. free structures and design contracts, differences between marketing, selling, and promotion, working with trade sources, basics of contract documents and contract administration. Career options for women in Saudi Arabia, with emphasis on innovative methods of practice including how to establish and run a business from the home.

IDE 454 PROJECT CONSTRUCTION MANAGEMENT (3-3-0)

Emphasis on contract design that reflects knowledge and application of codes published by the National and International Code Council and National Fire Protection Association including plumbing, mechanical, electrical, communications, and finish/furniture selection requirements. Emphasis on contract design that reflects knowledge and application of sustainable building systems and construction.

IDE 315 TEXTILES (3-1-4)

Students work with a number of man-made and natural fibers in the class, as they learn about their characteristics and uses. The course content includes a study of textiles, materials and resources for the interior environment, which considers finish products and their application as well as manufacturing processes, design methods, aesthetic application, installation methods, maintenance, and specifications.

Courses Description

MANAGEMENT GROUP (X 5 X)

IDE 456 HANDCRAFT (2-0-4)

Introduction to basic process of making pottery: firing, glazing and decorating, stressing creative design, craftsmanship, aesthetic design, types of materials used in pottery, coil pottery, porcelain, Islamic pottery: pre-Islamic and early Islamic periods, Greeks and Chinese vases.

IDE 232 MODEL MAKING FOR INTERIOR DESIGN (2-0-4)

This course will introduce the students to basics of Model making with various materials. Acquisition of hands on experience in model - building. Introduction to concepts of model making and various materials used for model making. Block modeling preparation of base for models using wood or boards. Introduction to block models of buildings (or 3D Compositions) involving the usage of various materials like Soap/Wax, boards, clay etc. Detailed modeling 20. Making detailed models which includes the representation of various building elements like Walls, Columns, Steps, Windows/glazing, sunshades, handrails using materials like mount board, snow-white board, acrylic sheets. Representing various surface finishes like brick/stone representation, stucco finish etc. Various site elements – Contour representation, roads/pavements, trees/shrubs, lawn, water bodies, street furniture, fencing etc. Making models of the various interior spaces such as: residences, offices, retail spaces, recreational spaces, scaled models of furniture. Carpentry, introducing the techniques of planning, chiseling & jointing in timber to learn the use of hand tools.

IDE 326 FURNITURE DESIGN (3-0-6)

This is a survey course concerning materials, methods and manufacturing processes that are applied to interior furniture and fixture design. The course covers the analysis of custom and mass production costs and considers the benefits of durability, safety and human comfort. These factors are discussed with respect to various interior furnishings.

Elective Courses

IDE 352: DAYLIGHTING ANALYSIS AND DESIGN (3-3-0)

Introduction to day lighting. Sources of day lighting. Solar spectrum and its relationship to daylight availability. Weather phenomenon and day lighting. Concept of cloudiness and design sky: Performance of building materials with respect to day lighting such as reflectivity and absorption. Decomposition and discoloring of materials under daylight. Detailed study of daylight transmission through openings with shading devices. Solar geometry and design of sun shading devices. Computer and lab methods for the study of daylight in buildings. Design of openings in desert areas with respect to glare and overheating.

IDE 357: INTRODUCTION TO BUILDING MAINTENANCE MANAGEMENT (3-3-0)

Basic concepts of building maintenance management, classification of maintenance types, work orders types, planning and scheduling of maintenance works, maintenance contract types, organizing preventive maintenance activities, maintenance contract documents.

Elective Courses

IDE 311 BUILDING MATERIALS (3-3-0)

Properties, behavior, and selection of building materials including wood, laminates, cements, aggregates, concrete, masonry mortar, steel, and finishing materials. Structural and architectural use of traditional and modern building materials. Introduction to basic methods of construction; excavation, foundations, building systems, and construction equipment and general techniques in wood, masonry, and concrete construction, new building materials visits to building sites and manufacturers.

IDE 458: QUANTITATIVE METHODS IN CONSTRUCTION MANAGEMENT (3-3-0)

An introduction to the application of modeling techniques to problems in construction management. Topicsinclude the application of linear programming, transportation and assignment.

IDE 459: CONTRACTS AND SPECIFICATIONS (3-3-0)

Contract documents, divisions of specifications, types of specifications, technical divisions options and alternatives, contracts, time and money, changes bonds liens, government contracts, general conditions, special conditions, proposal form, instruction to bidders, invitations to bid, checking, interpretation of specifications, computerized specifications and Saudi standard public works contract.

IDE 490: SPECIAL TOPICS IN INTEROR DESIGN ENGINEERING (3-3-0)

Variable contents. State-of-the-art advanced topics in the field of Interior Design. Prerequisites: Senior Standing, Consentof Instructor

Program Key Performance Indicator (KPI's)

No	KPIs Code	KPIs	Measurement Methods
1	KPI-P-01	Percentage of achieved indicators of the program operational plan objectives	Percentage of performance indicators of the operational plan objectives of the program that achieved the targeted annual level to the total number of indicators targeted for these objectives in the same year
2	KPI-P-02	Percentage of faculty and program staff who are aware of the program / institution's mission using a questionnaire / interview to the total number of faculty and staff.	Percentage of faculty and program staff who are aware of the program / institution's mission using a questionnaire / interview to the total number of faculty and staff
3	KPI-P-03	Average of overall rating of final year students for the quality of learning experience in the program on a five-point scale in an annual survey	Average of overall rating of final year students for the quality of learning experience in the program on a five-point scale in an annual survey
4	KPI-P-04	Average students overall rating for the quality of courses on a five-point scale in an annual survey	Average students overall rating for the quality of courses on a five-point scale in an annual survey
5	KPI-P-05	Proportion of students who completed the program in minimum time in each cohort	Proportion of students who completed the program in minimum time in each cohort

Program Key Performance Indicator (KPI's)

No	KPIs Code	KPIs	Measurement Methods
6	KPI-P-06	First year student retention rate	Percentage of first-year undergraduate students who continue at the program the next year to the total number of first-year students in the same year
7	KPI-P-07	Student performance in the professional and/or national examinations	Percentage of students or graduates who were successful in the professional and / or national examinations, or their score average and median (if any)
8	KPI-P-08	Graduates' employability and enrolment in postgraduate programs	Percentage of graduates from the program who within a year of graduation were: a. employed b. enrolled in postgraduate programs during the first year of their graduation to the total number of graduates in the same year
9	KPI-P-09	Average number of students per class (in each teaching small ,session/activity: lecture ,group, tutorial Laboratory)	Average number of students per class (in each teaching: session/activity lecture, small group tutorial, laboratory),
10	KPI-P-10	Average of overall rating of employers for the proficiency of the program graduates on a five-point scale in an annual survey	Average of overall rating of employers for the proficiency of the program graduates on a five-point scale in an annual survey
11	KPI-P-11	Student`s evaluation of the value and quality of the field activities	Percentage of first-year undergraduate students who continue at the program the next year to the total number of first-year students in the same year

Program Key Performance Indicator (KPI's)

No	KPIs Code	KPIs	Measurement Methods
12	KPI-P-12	Average of students' satisfaction rate with the various services offered by the program (restaurants, transportation, sports facilities, academic advising,...) on a five-point scale in an annual survey	'Average of students satisfaction rate with the various services offered by the program ,restaurants) transportation, sports facilities, academic advising, ...) on a five-point scale in an annual survey
13	KPI-P-13	Ratio of the total number of students to the total number of full-time and full-time equivalent teaching staff in the program	Ratio of the total number of students to the total number of full-time and full-time equivalent teaching staff in the program
14	KPI-P-14	Percentage of teaching staff distribution based on : a. Gender b. Branches c. Academic Ranking	Percentage of teaching staff distribution based on : a. Gender b. Branches c. Academic Ranking
15	KPI-P-15	Proportion of teaching staff leaving the program annually for reasons other than age retirement to the total number of teaching staff.	Proportion of teaching staff leaving the program annually for reasons other than age retirement to the total number of teaching staff
16	KPI-P-16	Percentage of full-time faculty members who published at least one research during the year to total faculty members in the program	Percentage of full-time faculty members who published at least one research during the year to total faculty members in the program
17	KPI-P-17	The average number of refereed and/or published research per each faculty total)member during the year number of refereed and/or published research to the total number of full-time or equivalent faculty members during the year)	The average number of refereed and/or published research per each faculty member during the year (total number of refereed and/or published research to the total number of full-time or equivalent faculty members during the year)

Program Key Performance Indicator (KPI's)

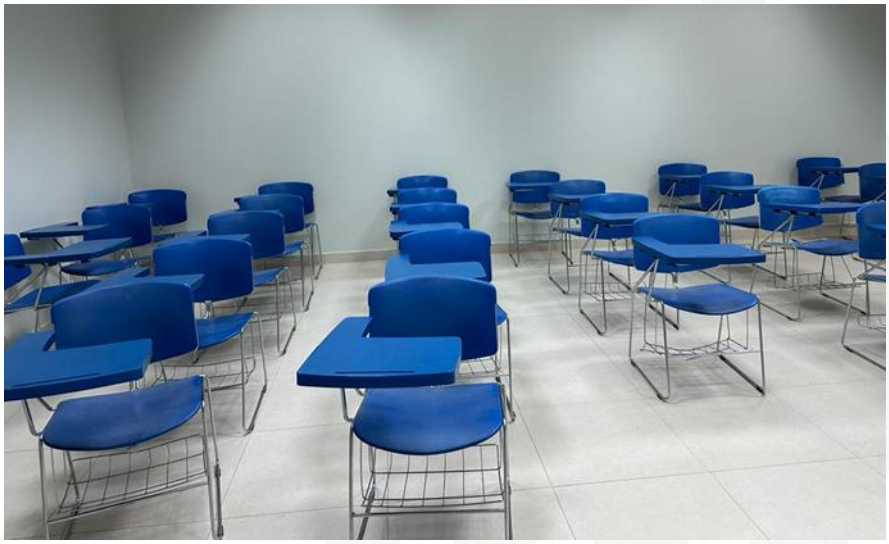
No	KPIs Code	KPIs	Measurement Methods
18	KPI-P-18	The average number of citations in refereed journals from published research per faculty member in the program (total number of citations in refereed journals from published research for full-time or equivalent faculty members to the total research published)	The average number of citations in refereed journals from published research per faculty member in the program (total number of citations in refereed journals from published research for full-time or equivalent faculty members to the total research published)
19	KPI-P-19	Percentage of faculty members with qualifications and experience of the courses they are studying compared to the total number of courses offered during the academic year	Percentage of faculty members with qualifications and experience of the courses they are studying compared to the total number of courses offered during .the academic year
20	KPI-P-20	Number of full-time faculty other staff and administrators engaged in a community service activity during the academic year compared to the other staff ,total number of faculty and administrators	Number of full-time faculty, other staff and administrators engaged in a community service activity during the academic year compared to the total ,number of faculty other staff and administrators
21	KPI-P-21	Average of beneficiaries satisfaction rate with the adequacy and diversity of learning resources ,references, journals) databases… etc.) on a five-point scale in an annual survey.	Average of 'beneficiaries satisfaction rate with the adequacy and diversity of learning ,resources (references …journals, databases etc.) on a five-point scale in an annual survey

Educational Sources and Facilities (Classrooms – Studios - Laboratory – Library- Specialized equipment..etc.)

Main Campus Classrooms

Type	Available Number	Capacity
Classrooms	4	25-48
Studios	2	14-25
Engineering studios	2	28-42
Computer Laboratory	1	24
Materials studio	1	35

Classrooms



Educational Sources and Facilities (Classrooms – Studios - Laboratories – Library- Specialized equipment..etc.)

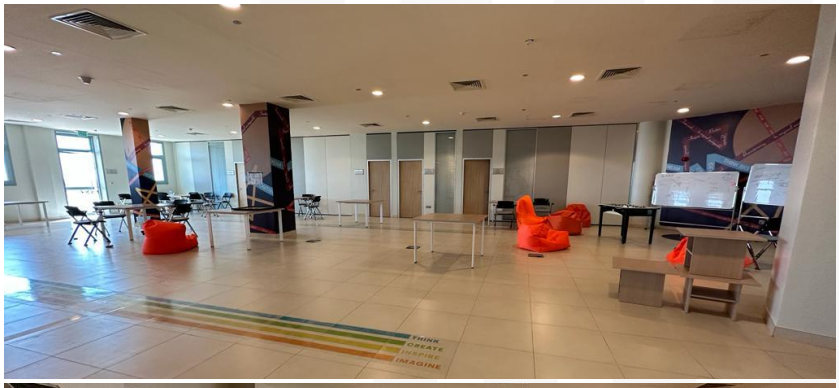
Studio

Computer Laboratory

Educational Sources and Facilities (Classrooms – Studios - Laboratories – Library- Specialized equipment..etc.)

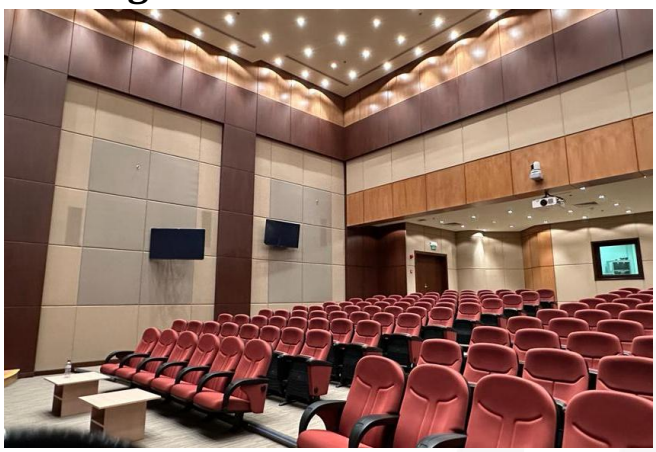
Library

Student Activities Unit

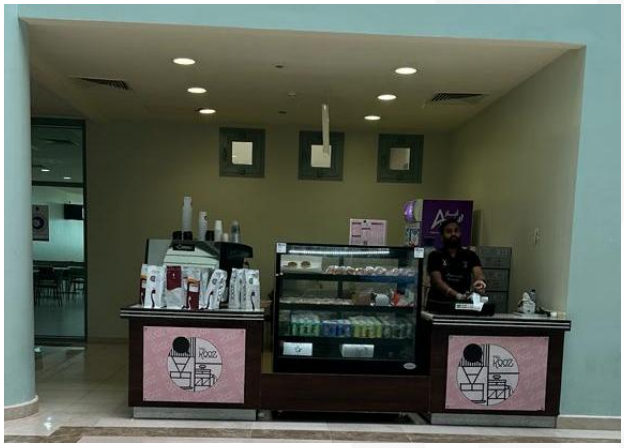


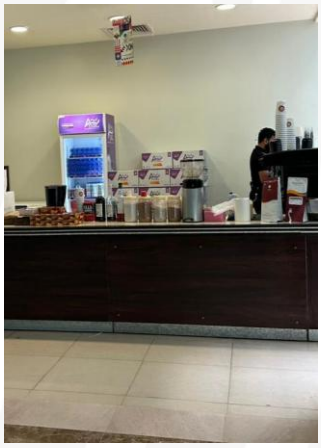
Educational Sources and Facilities (Classrooms – Studios - Laboratories – Library- Specialized equipment..etc.)

College theatre



Cafeteria



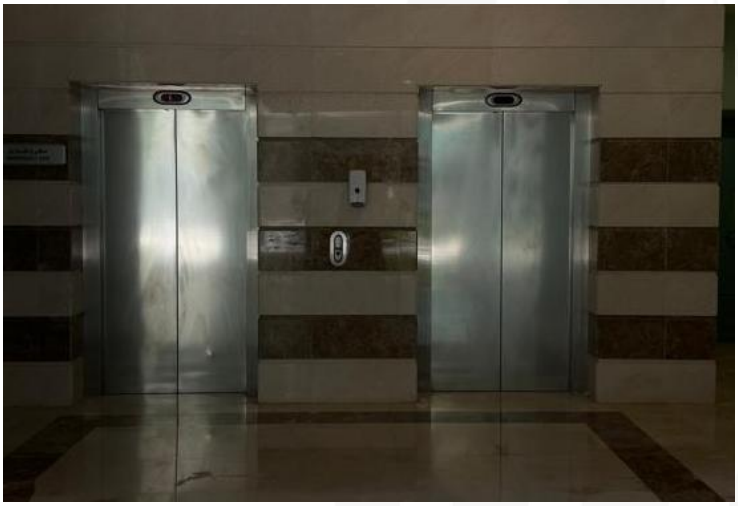


Prayer place and rest place

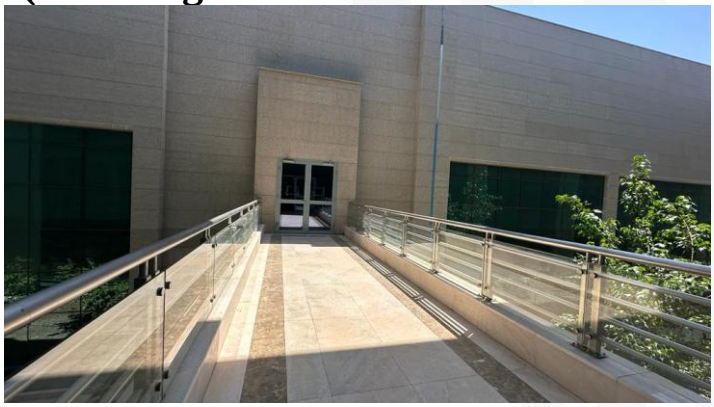
Educational Sources and Facilities (Classrooms – Studios - Laboratories – Library- Specialized equipment..etc.)

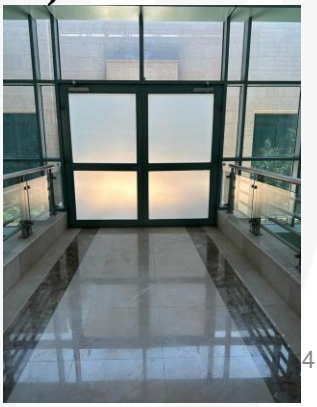
Students with disabilities facilities (the ramp)

(the elevator)



(the bridge between men and female side)





Graduates Employment Opportunities

- Interior Architect code 21610202
- Assistant Interior Architect code21610201
- Associate Interior Architect code21610203
- Professional interior architect code21610204
- Senior Professional Interior Architect code21610205
- Interior architecture expert code21610206
- Senior Interior Architecture Expert code21610207
- Interior architecture consultant code21610208

Examples of Students' Projects

Designed by: Alhanouf Saud Almuzini

Examples of Students' Projects

Designed by: Hala Mohammed

Examples of Students' Projects

Designed by: Zainab Alzayer

Examples of Students' Projects

Designed by: Ghada Almutrafi