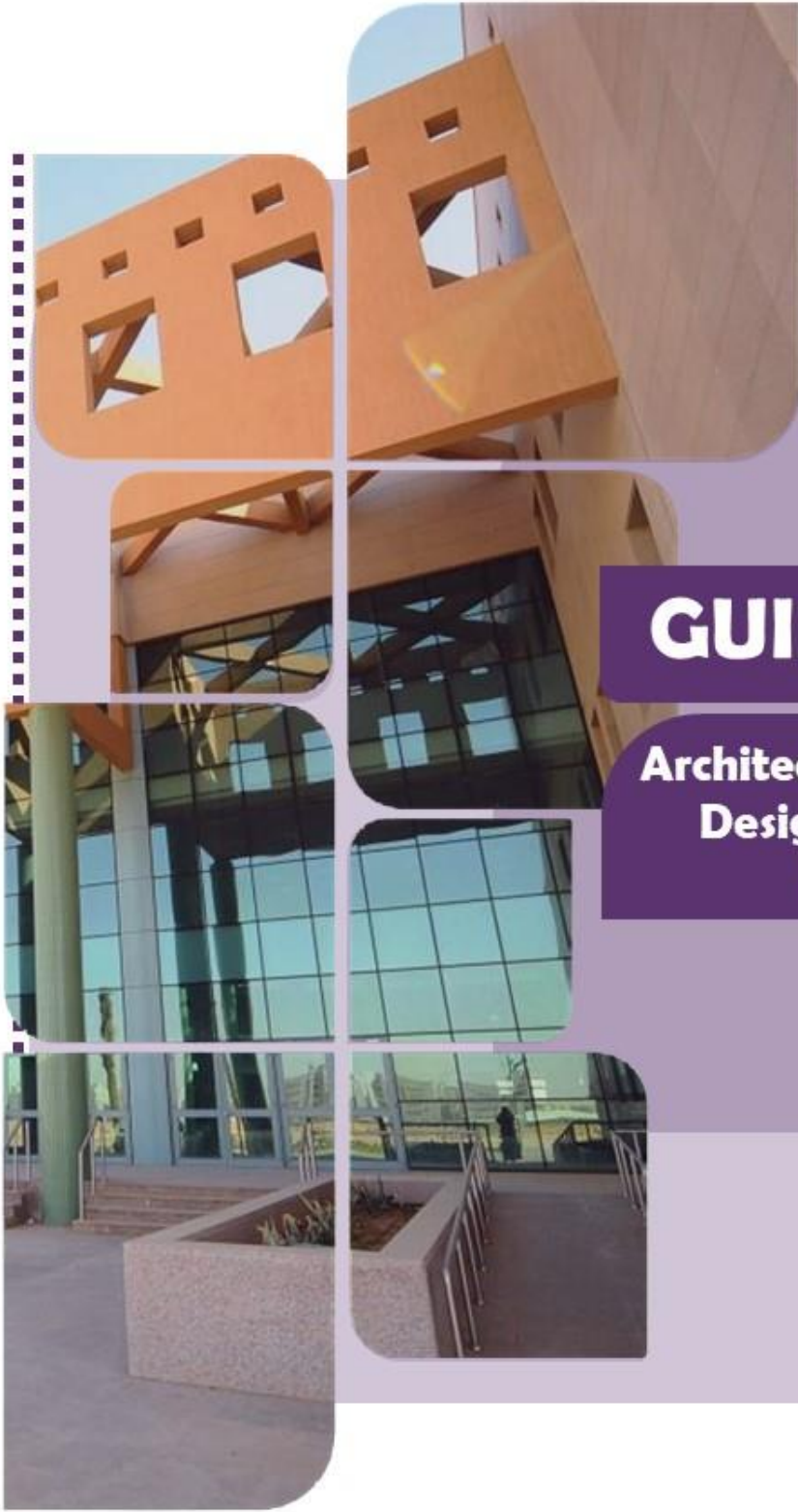




جامعة المجمعة
Majmaah University
كلية الهندسة



GUIDE BOOK

Architecture and Interior
Design Engineering
Program

2025-2026

Program General Information

Program name	Architecture and Interior Design Engineering Program
Place where the program is taught	College of Engineering building - Main Campus
The program type	Female
The language of Teaching	English
E-mail to communicate with the program	----
The Program website Link	----

Initial Requirements for Admission to The Program

To be admitted to the program, students must fulfill the following initial academic requirements:

1. Complete the Preparatory Year Program with a GPA of at least 3.75 out of 5.
2. Complete all college fundamental courses, which are offered in the fall semester of the freshman year.

Graduation Requirements

To qualify for graduation, students must complete the following program requirements:

1. University, College, and Program courses
2. Engineering Practice
3. Senior Design I and II

Program Description

The Architecture and Interior Design Engineering Program is essential to the community as its mission is to provide graduates with distinguished Interior Design engineering knowledge, professional, and engineering problem-solving skills. These skills are crucial for both community services and industry, and for the infrastructure expansion, and the efficiency of building interior design. The program fulfills the National Strategic Plans' calls for the development of human resources and enhancement of the technical, managerial, and innovative capabilities of the working population as follows:

1. Satisfy the demands of the steadily growing Saudi and regional market for qualified female graduates in Interior Design, Graphics, and Multimedia Design.
2. Prepare Interior designers who can use their sense of style to develop aesthetically pleasing designs
3. Prepare precise Interior designers with the capability to measure interior spaces and create drawings.

Program Mission

The mission of the program is as follows:

1. Towards a college at the forefront of quality engineering education and applied research.
2. To serve the community through preparing an ethically responsible, professional, and creative Interior Design Engineer.

Program Goals

The Program prepares graduates with a strong foundation in the multidisciplinary sciences of Architecture and Interior Design Engineering. **The program educational objectives are as follows:**

1. To prepare well-educated graduates for the interior Architecture and Interior Design profession.
2. To prepare graduates for self-learning and continued life-long learning.
3. To promote the creation and dissemination of knowledge in the field of Interior Architecture and Interior Design.
4. To prepare students for running scientific research.

Graduate Attributes

The program aims to develop graduates with the following key attributes:

1. Fostering intellectual excellence
2. Emphasizing knowledge that is relevant to technology, to the community, and to society at large
3. Upholding high ethical standards
4. Preparing students for fulfilling careers in industry, government, academia; and success in advanced graduate studies.

Professional Occupations/Jobs

Graduates of the program can pursue a range of professional career opportunities, including:

1. Interior Designer
2. Project Designer (Interior)
3. Project/Construction Manager
4. Interior Design Consultant
5. Interior Design Engineer
6. Space Needs Analyst
7. Furniture Designer
8. Academic positions (university lecturer/faculty in interior design programs)

Laboratories

The Program offers advanced facilities that support academic learning and hands-on practice. These laboratories provide students with the technical skills and tools needed for digital design, modeling, and fabrication. **Check the details of the following Labs through these links ([AIDE Lab Equipment](#)), ([AIDE Lab Equipment details](#)):**

1. Computer Lab 1
2. Computer Lab 2
3. Digital Fabrication and Printing Lab
4. Digital Design and Printing Lab

Curriculum

The Preparatory Year (29 Cr. Hr.)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 1 (14)	PENG 111	English Language 1	R	----	8	PY
	PMTH 112	Introduction to Mathematics 1	R	----	2	PY
	PCOM 113	Computer Skills	R	----	2	PY
	PSSC 114	Communication and Education Skills	R	----	2	PY
	Total					14

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 2 (15)	PENG 121	English Language 2	R	PENG 111	6	PY
	PMTH 127	Introduction to Mathematics 2	R	PMTH 112	4	PY
	PENG 123	Scientific and Engineering English Language	R	----	2	PY
	PPHS 128	Physics	R	----	3	PY
	Total					15

IDE Study plan (136 Cr. Hr.)

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 3 (16+2)	MURE	University Requirement	R	----	2	MU
	MATH 105	Differential Calculus	R	PMTH 112 PMTH 127 PPHS 128	3	COE
	PHY 103	General Physics	R	PMTH 112 PMTH 127 PPHS 128	4	COE

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
	GE 102	Fundamentals of Engineering Drawing	R	----	3	COE
	IDE 130	Freehand Sketching	R	----	2	PROG
	IDE 140	History of Architecture and Interior I	R	----	2	PROG
	ARE 120	Design Basics	R	----	2	DEP
	Total					18
Level 4 (18)	MATH 107	Algebra and Analytical Geometry	R	----	3	COE
	ARE 123	Architectural Design Studio I	R	ARE 120	3	DEP
	IDE 150	Computer-Aided Drafting	R	GE 102	3	PROG
	ARE 121	Theory of Architecture and Interior I	R	ARE 120	2	DEP
	IDE 132	Building Construction I	R	GE 102	3	PROG
	IDE 141	Art Appreciation	R	----	2	PROG
	IDE 131	Shade and Perspective	R	GE 102	2	PROG
Total					18	

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 5 (16+2)	MURE	University Requirement	R	----	2	MU
	ARE 224	Architectural Design Studio II	R	ARE 123	3	DEP
	CE 216	Principles of Surveying	R	MATH 107	3	O. PROG
	CE 218	Theory of Structure	R	----	3	O. PROG
	IDE 233	Building Construction II	R	IDE 132	3	PROG
	IDE 242	History of Architecture and Interior II	R	IDE 140	2	PROG
	IDE 260	Environmental Control	R	IDE 121	2	PROG
Total					18	
Level 6	MURE	University Requirement	R	----	2	MU
	ARE 225	Architectural Design Studio III	R	ARE 224	3	DEP

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
(15+2)	STAT 201	Statistics and Probability	R	----	3	COE
	ARE 222	Theory of Architecture and Interior II	R	ARE 121	2	DEP
	IDE 234	Fundamentals of Interior Design	R	IDE 224	2	PROG
	IDE 251	Computer-Aided Modelling	R	IDE 150	3	PROG
	IDE 270	Building Acoustics Design	R	ARE 121	2	PROG
	Total					17
Level 7 (15+2)	MURE	University Requirement	R	---	2	MU
	GE 306	Engineering Report Writing	R	STAT 201	2	COE
	CE 319	Structural Systems and Design	R	CE 218	3	O PROG
	IDE 371	Interior Design Studio I	R	IDE 225	3	PROG
	IDE 352	Working Drawing I	R	IDE 132	3	PROG
	IDE 361	Styles and Trends of Interior Design	R	IDE 234	2	PROG
	IDE 335	Color Design	R	IDE 234	2	PROG
Total					17	

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
Level 8 (18)	GE 407	Engineering Economy	R	---	2	COE
	IDE 362	Psychological Studies in Interior	R	IDE 234	2	PROG
	EE 310	Electrical Systems in Architecture	R	IDE 233	2	O. PROG
	IDE 372	Interior Design Studio II	R	IDE 371	3	PROG
	IDE 353	Working Drawing II	R	IDE 352	3	PROG
	IDE 363	Light Design	R	IDE 234	2	PROG

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College, or Program)
	IDE 364	Furniture Design	R	IDE 371	2	PROG
	IDE399	Practical Training	R	after earning 110 credits	0	PROG
	Total					16
Level 9 (12+4)	MURE	University Requirement	R	---	2	MU
	IDE 4xx	Elective 1	E	Depending on course	2	PROG
	GE 408	Engineering Project Management	R	----	2	COE
	ME 410	Mechanical systems	R	IDE 233	2	O. PROG
	IDE 473	Interior Design studio III	R	IDE 372	4	PROG
	IDE 474	Interior Landscape	R	IDE 371	2	PROG
	IDE 498	Senior Design 1	R	IDE 371	2	PROG
Total					16	
Level 10 (12+4)	MURE	University Requirement	R	---	2	MU
	IDE 497	Professional Practice	R	----	2	PROG
	ME 411	Heating, Ventilation & Air Conditioning	R	IDE 260	2	O. PROG
	IDE 465	Accessories Design	R	IDE 371	2	PROG
	IDE 436	Contracts and Specifications	R	IDE 353	2	PROG
	IDE 499	Senior Design II	R	ID 498	4	PROG
	IDE 4xx	Elective 2	E	Depending on course	2	PROG
Total					16	
					165	

Courses Descriptions

Statistics and probability: Descriptive statistics: statistical classification of data, measures of central tendency (mean, median, mode for raw and grouped data), measures of dispersion (range, mean deviation, quartile deviation, standard deviation and variance). Simple and multiple linear regressions, significance tests, estimation, sampling. Statistical software (Excel, StatGraph, MiniTab) and their applications. Probability: introduction, properties, Conditional probability, Bayes law, applications. Random variables: discrete and continuous random, the expected value and variance, sums of discrete random variables. Selected distributions: Uniform, Poisson, Exponential, and Normal

Differential calculus: Set of real numbers, Average rate of change, Limits, Continuity, Derivatives (Definition, properties), Chain rule, Implicit differentiation, Higher order derivatives, Equations of tangent lines and normal lines, Differentiation of (trigonometric, logarithmic, exponential, hyperbolic, inverse of trigonometric, inverse of hyperbolic) functions, relative extrema, concavity, related rates, horizontal and vertical asymptotes, Applications of derivatives (Rolle's Theorem, MVT), L'Hopital's Rule. Functions in two or three variables: Limits, Continuity, Partial derivatives.

Algebra and analytical geometry: Studying systems of linear equations using Gauss-Jordan, Inverse of coefficient matrix, Cramer's rule. Studying vectors and related topics such as scalar product, cross product, finding angle between two vectors and directional cosines. Equations of lines and planes in 3 space. Studying eigenvalue problem. Decomposing rational functions into their partial fractions. Identifying conic section. Solving related Engineering problems. Studying convergence/divergence of infinite series: G. S test, divergence test, comparison test, ratio test, absolute convergence test. Studying Taylor expansion and Maclaurine expansion.

General physics: Thermodynamics: temperature scales, thermometers, thermal expansion, heat and the first law of thermodynamics. Wave Motion: sinusoidal waves, reflection, defraction and transmission, the linear wave equation, Sound Waves: speed of sound waves, intensity of periodic sound waves, the Doppler Effect. Light Waves: nature of light waves, interference, diffraction patterns and polarization. Electricity: Electric potential, capacitance and inductance, current and resistance, direct current circuits.

Principles of Surveying: Definitions and concepts in land surveying, Types of surveying, Units of measurements, Linear measurements, Scales, Planimeter and its applications, Areas and Volumes, International and local arrangement of maps, Reading of different maps and standard specifications, Traverses computations, Cadastral maps , Leveling, Profiles, Earthwork quantities.

Theory of structure: The course defines the different kinds of structures, supports and loads. It develops an understanding of how structural elements behave under loads, how a structural element responds to an applied load, as well as how to calculate internal straining actions (normal force, shear force and bending moment diagrams). Also, to produce civil engineers who are equipped with the fundamentals of theory and analysis of statically determinate structures leading to proper design of these structures and qualify them to study the statically indeterminate structures in the next years .

Structural Systems and Design: The course defines the structural systems of buildings including bearing wall and skeleton type structures. Reinforced concrete, steel and membrane structural systems are included. It introduces the different types of footings as well as retaining wall types. Properties of R.C. materials are explained. Analysis and design of R.C. sections subjected to bending, shear, and normal force are addressed. The course describes the types of loads and load distribution on beams. Design of R.C. slabs and columns are addressed. It presents the design of tension and compression steel members. Finally the design of isolated R.C. footings is clarified.

Fundamentals of Engineering Drawing: Introduction, Skills of freehand sketching, Basics of lettering, Methods of projection and orthographic projection using drawing tools, Dimensioning of views, Third view prediction, Auxiliary views, Intersections of surfaces and bodies, Isometrics, Sectional views.

Engineering Report Writing: Definition of technical reports – Types of reports – Cover and page title- Abstract- Table of contents – Lists of Abbreviations, Figures and Tables– Report body – Analysis of results – Tables and graphs – Conclusions and Recommendations – References – Appendix – Exercises showing common mistakes in writing the technical reports – Presentation skills.

Engineering economy: Introduction to engineering economy, The time value of money, Analysis of break-even point (BEP), Assessment of the benefit/cost, Decision-making and the choice between alternatives, Laws of return and the Effective Rate of Return (ERR), Economic analysis, Replacement policy, Depreciation rates, Fundamentals of inflation, Introduction to cost accounting.

Engineering Project Management: Introduction to Project planning and scheduling, Project charter, Scope statement, Work Breakdown Structure, Responsibility Chart. Network diagram, Schedule analysis and possibilities using the Critical Path Method (CPM) and the Program Evaluation and Review Technique (PERT). Resource leveling and allocation, Time-cost trade off (Crashing a schedule), Gantt Chart, Time overlaps, Time and cost control, Risk monitoring and control, Computer applications.

Heating, ventilation & air conditioning: Review of basic thermodynamics, vapor compression cycles, multi-stage and cascade vapor compression , Controlling cooling, heating, lighting, air, solar radiation, natural ventilation, natural lighting –Environmental protection of interior design , knowledge of the principles involved in the selection and design of temperature controls for HVAC systems. architectural spaces and details needed for HVAC systems.

Mechanical systems: Mechanical vibration systems, Mechanical system isolation - free-body diagram, Equilibrium conditions. Center of gravity, mass center, centroid. Structures - frames, machines and trusses. Power generation systems, Air distribution systems. Maintenance systems, simulation of thermal systems, systems of energy generation, energy conversion and energy storage, Escalators types and Design -Elevators types and design - Mechanical Ramps - Control systems in Interior Elements – Fire-fighting systems – Solar energy Systems Etc.

Electrical Systems in Architecture: Electrical systems aim to study the calculation of the different loads of all the elements that consume energy in buildings, in addition to what may be related to mechanical systems, Electrical power systems, their analysis, operation, and design, electrical signals and systems communication Systems, their analysis, operation, and design. Architectural

requirements of the Electrical Systems such the various communication systems inside the buildings, including telephone, Internet, satellite ... etc.

Architectural design studio I: Fundamentals aspect of architecture design, with the understanding of basic elements of architecture and its principles which are explored and expressed through assigned architectural projects which emphasis on anthropometrics, visual communication in architecture, Studying different building elements and vocabulary (areas and spaces – corridors – stairs – w.c. – elevators – escalators ...etc), project elements (plans - facades - sections – layout – sketches ... etc) A small size architectural Project such as small villa.

Theory of architecture and interior I: Architectural philosophy and intentions, meanings and identity, perceptions, components, articulations, trends, and esthetical satisfaction. Architectural movements after the first industrial revolution - Modern society, the new technological and cultural potentials and architectural design - Theories, principles and works of first -, second- and third-generation pioneers of modern architecture - Contemporary architecture

Design Basics: Introduction to design process. Design Elements (line, pattern, space, mass, shape, texture, color) Design relations, Composition basics (unity, variety, rhythm, emphasis, balance, proportion, scale ... etc), of elements and composition. Applications related to architecture and interior.

Architectural Design Studio II: Studying architectural projects composed of one building with emphasis on solving problems of circulation - Space - Mass - Facades - Long-span roofing methods - Projects such as: bank / post-office / cafeteria / exhibition hall / museum, relationship between the multiple functions of spaces on the one hand and the morphological and structural systems of the buildings.

Architectural Design Studio III: An extended development of architectural design as a means to further investigate the relationship of architectural means and intent, including brief requirements, people and architecture relationship, site analysis, staged approaches to design and investigation of architectural theory, design of building in an urban site with technical biased expectation, architectural design process and principles (topics include factors, considerations and basics). Introduction to visual design process (Topics include line, pattern, space, mass, shape, texture, color, unity, variety, rhythm, emphasis, balance, proportion, scale, function, color, pattern, and texture as used in architecture

Theory of architecture and interior II: Theory, history and practice of Interior Design over the last half century, as investigated through specific themes. Students will be expected to contribute significant research and ideas to the course. Studying material drawn from architectural theory as well as art, film, and the science of making, architectural spaces in terms of the functional requirements, the concepts of architecture and design of the different types of buildings (residential, religious, educational, cultural, health, administrative, sports, transportation, etc.) and included for accessibility and movement, and sensory and cognitive disabilities, Security and safety, with emphasis on escape stairs.

Fundamentals of Interior Design: An introduction to the interior design profession, with an emphasis on problem solving for small residential spaces. Elements and principles of design are explored as well as human factors, color theory, and the art of lighting. Space planning, furniture layouts, the development of color schemes and the selection of finishes, furnishings and materials. Design Concept Presentation and Approval, Scheduling, Procurement, Installation & Accessorizing, Refinement Punch List.

History of Architecture and Interior I: Pre-historic age, Ancient Egyptian Architecture, West-Asiatic architecture, Greek architecture, Roman architecture Photography history, a historical study of interior architecture and furnishings from ancient times until the nineteenth century. Cave dwellings and temple architecture, Gothic cathedrals and renaissance palaces.

Freehand sketching: A study of freehand sketching techniques and the different line types used. Orthographic and pictorial visualization skills. Various types and forms of sketches, sketch lines, arcs and circles - sketch the various line types - sketches of simple, two-dimensional objects. Standard views of an object and the dimensions (height, width and depth) associated with each multiple-view sketches of objects containing normal, inclined and cylindrical surfaces. Construct pictorial sketches of mechanical objects, Human figure sketches in perspective drawings of architectural environments, conceptual thinking of small object-based, both freehand and coloring skills. Specifically, free hand drawing colors and line.

Shade and perspective: Using CAD software, student study Point Shadow, Line shadow, Plane shadow , Shades and shadows of objects, Shades and shadows of Facades and architectural compositions. Projects such as: detached house / small rest house. Perspectives up to constructed two-point and advanced perspective. Projects deal with architectural and interior perspective drawing and the perception of line, form, mass, volume, and proportion. Drawing techniques are introduced that add surface texture, tonality, reflections, shading, and shadows.

History of Architecture and Interior II: Architecture and interior at the dawn of Christianity - Byzantine architecture - Renaissance architecture – medieval and Islamic architecture 18& 19 century architecture and interior - introduction to 20th century architecture. Movements, styles, and traditions in Europe and the Islamic world. The evolution of architecture and interior design is presented in the context of the social, political, and technological developments of the time. History of ornaments, history and practice of Interior Design over the last half century, as investigated through specific themes.

Environmental control: Environment and environmental control definitions and vocabulary – Elements of the environment and its influence on architecture and built environment – Fundamentals of environmental control – Environmental control methods systems in architecture and built environment – Controlling cooling, heating, lighting, air, water, waste, and acoustics – Climatic zones, solar radiation, natural ventilation, natural lighting –Environmental protection of interior

Computer-Aided Drafting: Introduction to computer aided drawing – Applications of CAD Software: Multi-view projection (orthographic Projection) - Projection of third principal view from two given principal views – Dimensioning - Three-dimensional

Interior design studio I: Interior Design of a residential building (Villa / Apartment / ...) through treating walls, floors, ceilings, color, lighting, barrier-free design, furniture of house spaces (reception – halls –bedrooms studying rooms – children room – bathroom –kitchen and other spaces) – Applying fundamentals and basics of interior design. Elements and principles of design, human factors, color theory, and the art of lighting, residential space planning, furniture layouts.

Building construction 1: Basics of building materials, building elements: foundations, walls, masonry, openings and arches, simple roofs and floors. Both theoretically and practically, the fundamentals of materials processes and properties, elements functional requirements.

Styles and trends of interior design: A review for paranoiac, Greek, roman, Christian, Islamic, classic, modern, postmodern contemporary new styles and digital style. Elements of style - Setting new style. Considerations of Selecting the suitable style styles and trends of ornamenting, furniture styles, decorative elements and motifs, and interior design.

Computer - aided modelling: Three-dimensional modeling using CAD software - Different modeling techniques - Emphasis on the construction of 3D CAD models as a means for quickly generating design alternatives - Behavior of materials with light, material characteristics and textures in 3D models, rendering and 3D modelling, integration between the different types of drawings, digital modelling techniques. BIM in Architecture and Interior

Building construction II: Methods of building construction - Bearing-walls construction - Skeleton construction - Building with bricks - Building with Stone - Insulation - Flooring - Staircases - Studying the different stages of building construction theoretically - Practical observation of the different stages of building construction in site – Foundations - Roofing - Expansion and settlement joints. In addition, how to design elements details achieving most practical economic solutions.

Interior design studio II: In this studio, students study methods of interior design for given public spaces such as hotel reception and waiting areas, cafeterias and restaurants, night clubs, car exhibitions, banks, multi-use halls .. Festival halls...etc. student design at least 2 of such projects.

Color design: Hue of color - color physics – color attributes – color sources - pigment colors – light colors. Traditional and computer-based color theory. Aesthetic, psychological, behavioral, social, preferential, and cultural properties of color application. Color analysis. Color theory and practice. Applications in the built environment, color rendering techniques as they relate to exterior and interior spaces,

Furniture design: Introduction to Furniture design – Factors affecting furniture design. Furniture and Spatial Composition – Styles and Trends of furniture design – Furniture design methods and processes - Accessories - Universal Design - Furniture Design for the Market- Materials and Techniques - The use of 2D and 3D visualization tools, healthy furniture, healthy materials, technical aspects of furniture drafting and sketching, history of furniture design, decoration, styles, decorative elements and motifs.

Working Drawing I: Preparation of the architectural and working drawings of a middle-size building (Plans - Elevations - Cross-sections) for one of the buildings designed in the previous architectural design studio. Electrical and Sanitary installations - Design and working drawing of doors and windows - Architectural details. Complete a set of working drawings, specifications, and finish schedules of the project.

Interior Landscape: This course aims to provide the students with the knowledge and skills for successful landscape design in interior, with emphasis on planning, design, resources and technologies. Student applies theoretical fundamentals in A small-scale project.

Interior design studio III: In this studio, students design interiors of large-scale interior spaces such as sporting halls, covered stadiums, railway station hall ...etc. Student prepares his project/s using CAD and rendering software (2d and 3d drawings).

Lighting design: Natural lighting – artificial lighting - mixed lighting - Light measurements - light measuring tools – principles of designing Natural and artificial lighting – basic lighting calculation and distribution – required electric energy– application of lighting calculations in various interior functions - lighting systems and the fundamentals of design solution communication, 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. Distributing light units in space. Types of lighting. Decorative lighting principles. Case studies.

Psychological studies in interior design: introduction to psychology–behavior and mental processes. The historical, physiological, and social influences on behavior, emphasizing development, learning, motivation, perception, cognition, mental health, individual and cultural differences- Role of architectural design in treatment, and prevention of mental disorders. Interior design in relationship with psychology, stress & physical environment, cognitive mapping, personal space, defensible space and place making.

Working Drawing II: Working drawing for interior spaces, details of design treatments and all interior elements of given intermediate scale building such as small exhibition, bank, small shopping & trade center ... etc . Project is required for getting credits.

Contracts and Specifications: Legal aspects of engineering public works, general and special conditions, tenders, different types of tenders, estimation of rates. Rate analysis, Depreciation, Arbitration. Professional ethics. Specifications of construction materials according to different standards. Quantity surveying for civil engineering works.

Art Appreciation: Restoration, rehabilitation and adaptive use of historic building interiors. Students will be introduced to the theory and history of the art preservation movement at the international and national levels. Seminar discussions would allow students to present findings from readings and case studies. Written exercises would include the development of a statement of significance of a specific historic interior. Graphic exercises would include documentation of significant interior spaces or features.

Accessories Design: Accessories design, decoration, , decorative elements and motifs, large-scale interior accessories such as sporting halls, decorating, stressing creative design, craftsmanship, aesthetic design, types of materials used in pottery.

Building Acoustics Design: Basics of acoustics in interiors. The course covers acoustics in interior spaces and the effect of noise on human beings. How to avoid outside noise – Different treatments, architectural acoustics. Room acoustics and noise sources, measurements, and control. Sound absorption and transmission.

Senior Design I: The Graduation project i constitutes a final evaluation of the candidate's years of study. The final project will be a complex body of work representing both of architectural and interior design profession. Student make a simple form and function architectural design and rich interior design for one of intermediate buildings such as exhibitions, museums, shopping & trade center ... etc. student study interiors of whole building in detail. Student presents his project in digital presentation and as a digital and printed report that includes project program, all studies and analysis that made by student during design process.

Senior Design II: The Graduation project ii constitutes a final evaluation of the candidate's years of study. It completes The Graduation project i work. The students contact research on the selected project in terms of precedent study, project identity, programming, development of architectural ideas and concept. Students prepare Architectural design as well as interior design of a building.

Engineering practice: This course aims to connect students with professional experience as trainees in consultancy offices known for practicing the profession of architecture in the stage of obtaining a building permit from the identification of the project to the client, the design process, the preparation of all necessary documents to obtain the building permit In preparation for the stage of construction and construction, under the supervision of an academic in cooperation with the field supervisor of the training

Professional Practice: This course aims to connect students with professional experience as trainees in consultancy offices known for practicing the profession of architecture in the stage of obtaining a building permit from the identification of the project to the client, the design process, the preparation of all necessary documents to obtain the building permit In preparation for the stage of construction and construction, under the supervision of an academic in cooperation with the field supervisor of the training