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### Design Domain

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED111	Basic Design Studio I	5	-	3	1	4	0
<b>Course Aims</b>	1- To introduce students to Human-centred Design in term of human dimensions and proportions 2- To raise the students' awareness about the principles of composition and the basic fundamentals of elements and principles of design 3- To develop the student's skills on creating 2D planar and 3D spatial compositions using hands-on-skills 4- To introduce students to the design process 5- To develop the student's visual and verbal communication skills through presenting design proposals and developing students' design portfolio.						
<p><b>Course Description:</b></p> <p>Common Course to AE &amp; ID:</p> <p>The course presents a framework of knowledge and sense on basic elements and principals of design. Through studio, students will apply principles of composition such as proportion, balance, rhythm, contrast, emphasis and hierarchy by forming 2D planar and 3D spatial compositions using sketching, drawing, coloring, crafting and modelling skills. Students will also experience the fundamental parameters of Interior Design: Program, form, space, structure, context, user and aesthetics. These parameters expose student to different scenarios where he/she is supposed to creatively solve problems and generate innovative design ideas. Students are initiated to communicate and debate their design proposals within design reviews and jury sessions.</p>							
Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED112	Basic Design Studio II	6	AED131	3	1	4	0
<b>Course Aims</b>	1- To raise awareness on anthropometrics & ergonomics 2- To introduce students to define space and principles of spatial organization 3- To raise the students' awareness on extra-personal space and ergonomics 4- To develop the student's skills on scale and proportion 5- To enhance students' knowledge and understanding of the design process 6- To develop the student's visual and verbal communication skills through presenting design proposals and developing students' design portfolio.						

**Course Description:**

Common Course to AE & ID:

The course presents a framework of knowledge on anthropometric & ergonomics, scale & proportions, space and spatial organization, and sense of place. Through studio work, students will apply anthropometric measurements and explore ergonomic designs. Students will be exposed to the fundamental parameters of defining space and composition of space using spatial organization principles. These parameters expose students to different scenarios where the student is supposed to creatively solve problems and generate innovative design ideas. Students are supported in developing their skills to communicate and debate their design proposals within design reviews and jury sessions

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES211	<u>Interior Design Studio I</u> (materiality)	6	AED111	4	2	4	0
<b>Course Aims</b>	1- To provide students detailed knowledge of Human-Centered Design in term of seating, circulation comfort and behaviour 2- To give students knowledge of the fundamentals of the design process and the implementation of space planning 3- To give students knowledge of color theories and apply a selection of harmonized color palette 4- To enhance students' ability to implement Design Principles in design projects 5- To give students practical knowledge of appropriate selection and analysis of structural materials based on its proprieties and specifications 6- To enhance students' understanding of how to create an interior space, based on designing, selecting furniture, and implementing appropriate color schemes to respond to users' needs. 7- To enhance the student's visual and verbal communication skills for presenting design proposals and design portfolios.						

**Course Description:**

**Space, Form, Structure & Place:  
Materiality in Residential interiors**

The course introduces the design process of interior space including pre-design, schematic design, design development and construction drawings. Students will implement Human-centered design approach to create interior design of residential space. The students will be given a scenario, users' profiles and pre-defined site. The students are requested to analyze



the users' needs, given space programming, the site constraints, and the building material properties. Students focus on space area and volume calculation to address human ergonomics including scale and proportions, seating and circulation comfort. Throughout, the student shall respect the color theory and design elements distribution and shall select the proper material for the given spatial design project. 2-D and 3-D sketches, technical drawings and colored perspective will be developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES212	<u>Interior Design Studio II</u> (structure)	6	IDES211 +IDES221	5	2	6	0
<b>Course Aims</b>		1- To provide students with specialist knowledge of Human-Centered Design with particular reference to human and space dimensions 2- To provide students with practical knowledge and experience of the design process from predesign to design documentation phase 3- To give students knowledge of design concepts drawn from the history, theories and design principles 4- To enhance the students' research skills including observing everyday life and deriving information needed in solving design problems 5- To enhance the student's creativity and innovation related to interior design 6- To enhance the student's written, visual and verbal communication skills for presenting design proposals and design portfolio. 7- To give students knowledge of how to select appropriate structural systems of different spaces.					
<b>Course Description:</b>							
<b>Structure in Interior Workplaces</b>							
In this course, the students continue the implementation of design process from predesign to design documentation phase. Students derive design theories, history and principles to inspire creative and innovative concept ideas. Throughout this course, students identify the structural systems of the building and highlight the types of structural and non- structural elements, including floors, walls, ceilings and roofs in addition to furniture and fixtures' structure to be implemented in a given medium-scale interior workplace. The students develop functional interior solutions considering human and space proportions, focusing on assigning furniture, materials and color scheme to respond to users' needs. To derive information needed in solving design problems, students implement evidence-base design approach through							

conducting various research methodologies including observation from everyday life. 2-D and 3-D sketches, CAD generated layouts and technical drawings will be developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES311	<u>Interior Design Studio III</u> (construction)	7	IDES212+ IDES222	5	2	6	0
<b>Course Aims</b>		<p>1- To provide students with detailed knowledge and technical skills to implement construction technologies and methods in a given interior space</p> <p>2- To equip students to be able to take an active role in the design process from predesign to design documentation phase</p> <p>3- To develop the students' skills in deriving design concepts from the history, established theories, design principles and knowledge of relevant construction skills and equipment.</p> <p>4-To enhance the student's creativity and innovation skills to solve interior design problems</p> <p>5-To enhance the students' research skills including data gathering, survey, observing everyday life, appraising and analysing existing buildings in term of function, construction technology and structural system</p> <p>6-To develop the student's written, visual and verbal communication skills for presenting design proposals and developing students' design portfolio.</p> <p>7- To provide students with skills to evaluate and select an appropriate structural system including the potential material and finishing solutions within design constraints</p>					
<b>Course Description:</b>							
<b>Construction in welcoming interiors</b>							
<p>The course investigates advanced space programing and problem solving in hospitality environments. Throughout, the students continue the implementation of design process from predesign to design documentation phase. Students derive design theories, history and principles in addition to construction methods and technology to inspire their innovative concepts and generate creative design ideas. The students develop functional interior solutions and pleasing interior atmospheres considering various types of construction methods and techniques of all kind of interiors' elements, including structural and non-structural elements, and focusing on assigning materials and finishing solutions, adapting appropriate color scheme and</p>							



structural system to respond to users' needs. To gather data and information needed to begin the project, student conduct research using various methodologies including data gathering, survey, observing everyday life, appraising existing buildings and deriving information. 2-D and 3-D sketches, CAD generated layouts, Computer generated images (CGI) and technical drawings are developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments is conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES312	<u>Interior Design Studio IV</u> (Lighting & Acoustics)	7	IDES311	5	2	6	0
<b>Course Aims</b>		<ol style="list-style-type: none"> <li>1- To provide students with detailed knowledge of human-centered design as it relates to thermal &amp; acoustical comfort</li> <li>2- To enhance students' teamwork skills and potential of cooperation with multi-interdisciplinary professions</li> <li>3- To enhance students' skills in understanding design concept from history as well as theories and design principles to implement a systematic design process from predesign to design documentation phase respecting relevant codes and regulations</li> <li>4-To enhance the student's creativity and innovation skills to solve interior design problems</li> <li>5-To enhance the students' research skills including data gathering, survey and analysis, observing everyday life, appraising existing buildings and deriving information needed to solve design problems</li> <li>6-To develop the student's written, visual and verbal communication skills for judging design proposals, presenting design-frieze panels and developing students' design portfolio.</li> <li>7- To provide students with relevant knowledge and skills applying lighting &amp; acoustical calculations and developing MEP systems for the project.</li> </ol>					
<b>Course Description:</b>							
<b>Lighting &amp; Acoustics in Commercial interiors</b>							
The course investigates advanced space programing and solving design problems in commercial Interior environments, with focus on lighting and acoustics principles							

and its user 'quality' assessment of illuminated spaces including control of glare, Daylight and artificial and sustainable lighting strategies, and interior space illumination calculations & acoustic theories including specifications of materials and products of acoustical solutions. Students shall apply the esthetical and functional design principles and human centered design approach in term of thermal comfort of space users. Throughout, the students work in team and cooperate with multi-interdisciplinary professions; continuing the implementation of design process from predesign to design documentation phase, respecting relevant codes and regulations regarding electricity and plumbing services. Students derive modern history and theories of design to inspire their innovative concepts and generate creative design ideas. The students shall consider the structural system and the construction technologies of the given existing building, focusing on assigning materials and finishing solutions, adapting appropriate color scheme to respond to users' needs. To gather data and information needed to begin the project, student conduct research using various methodologies including data gathering, survey, observing everyday life, appraising existing buildings and deriving information. 2-D and 3-D sketches, CAD generated layouts, Computer generated images (CGI), technical drawings, BOQ and working drawing documents will be developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES411	<u>Interior Design Studio V</u> (ventilation)	8	IDES312 +IDES325	5	2	6	0
<b>Course Aims</b>		1-To enhance the students' skills related to planning and managing large scale public projects through the implementation of a systematic design process and conforming to construction laws, codes, and regulations 2- To enhance the students' group presentation skill and collaborative working skills within multi-interdisciplinary professions 3- Provide students with advanced skills for evaluating interior design proposals and alternatives from precedent work, deriving, and evaluating history, theories, and principles of design to inspire innovative design concepts 4-To enhance the students' research skills including data gathering, survey and analysis, observing everyday life, investigation, appraising existing buildings and deriving information needed in solving design problems 5-To enhance the student's written, visual, and verbal communication skills for Judging design proposals, presenting design-freeze panels and developing students' design portfolio.					

6-To provide students with advanced practical knowledge of developing ventilation systems in the large-scale project.

**Course Description:**

**Ventilation in Public Interiors**

The course investigates advanced space programming, planning and management of large-scale public Interior environments, with a focus on applying and evaluating existing A/C and Ventilation systems including mechanical, natural, mixed made and artificial ventilation within the public interior space. The student evaluates design alternatives and strategic design decisions that consider the business model, economic, social and cultural contexts. The course integrates all design aspects, functionality, aesthetic values, appropriate construction technologies and materials, laws, regulation and codes, social and wellbeing impact. Throughout, the students illustrate the project as a collective presentation and cooperate with multi-interdisciplinary professions; continuing the implementation of design process from predesign to design documentation phase, respecting relevant codes and regulations. Bill of quantity preparation, project specification, time scheduling and suppliers' list are applied within the project management framework. Students derive modern history and theories of design to inspire their innovative concepts and generate creative design ideas to respond to users' needs. The students shall provide professional and detailed working drawing documents, technical plans and installation layouts respecting international codes and regulations. To gather data and information needed to prepare the inquiry report, student conduct research using various methodologies including data gathering, survey, observing everyday life, appraising existing buildings and deriving information. 2-D and 3-D sketches, CAD generated layouts, Computer generated images (CGI), animated video, technical drawings, working drawing layouts and construction administration documents will be developed to present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
IDES412	<a href="#">Interior Design Graduation Project I</a>	8	IDES351+IDES324	2	0	2	0
<b>Course Aims</b>		<p>1-To enhance students' analytic skills and use a diverse range of knowledge (including technical knowledge related to site measurements and recording, sustainability, building systems, construction methodologies, materials, and services) to identify and apply design guidelines to complete a research project.</p> <p>2- To enhance the students' team working skill and cooperation with multi-interdisciplinary professions through conducting questionnaires and survey for potential space users in particular and in the community in general</p>					



	<p>3- To enhance the students' skills in evaluating interior design proposals and alternatives from previous work, deriving, and evaluating history, theories, and principles of design to identify research problems and find out the appropriate research goals</p> <p>4-To provide students advanced knowledge of research methodologies including data gathering, survey and analysis, observation from everyday life, investigation, cases of study analysis, appraising existing buildings and deriving information needed in formulating the design brief</p> <p>5-To enhance the student's written and verbal communication skills for Judging design proposals and presenting research reports</p> <p>6- In the professional context of this capstone course, students create advanced design solutions which respect construction laws, codes, and regulations</p>
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**Course Description:**

A seminar course is offered to students to assist them in preparing the research report for the capstone project which is considered as the pre-design phase. The selection of the project topic shall be in accordance with the student's area of interest and selected career path which is derived from career-elective and training courses, mentioning furniture, adaptive transport and scenography design. Within this course the student come up with an innovative topic which respects human, cultural, environmental, professional and economic contexts. The student conducts research using multiple methodologies including data gathering, survey and analysis, observation from everyday life, investigation, cases of study analysis, appraising existing buildings and deriving information needed in formulating the design brief later on. The students evaluate interior design proposals and alternatives from precedent work, derive and evaluate history, theories and principles of design to identify research problems and find out the appropriate research goals. The students utilize technical knowledge to identify design guidelines with respect to construction laws, codes and regulations in order to create research solutions. All this gathered data is compiled and then analysed to formulate the final research report which is presented in front of a panel in a jury session.

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	Lab
IDES413	<a href="#"><u>Interior Design Graduation Project II (Holistic)</u></a>	8	IDES412+ IDES411	5	2	8	0
<b>Course Aims</b>		1-To enhance the students' skills related to planning and managing a large-scale Capstone project through the implementation of a systematic design process and respecting construction laws, codes and regulations					



- 2- To enhance the students' professional teamwork and collective presentation skill and collaboration with multi-interdisciplinary professions attributing in adding the leadership expertise to his/her personality
- 3- Provide students with advance practical knowledge concerning setting criteria and evaluating interior design proposals and alternatives from precedent design works, deriving, and evaluating history, theories, and principles of design to inspire innovative design concepts
- 4-To provide students with advance knowledge of research methods and methodologies including data gathering, survey and analysis, observing everyday life, investigation, and inquiry, appraising existing buildings and deriving information needed in solving design problems
- 5-To enhance student's written, visual, and verbal communication skills and ability to critique design proposals, presenting design-freeze layouts and developing students' design portfolio.
- 6- To provide students with the opportunity of developing a holistic interior design project.
- 7- To enable students to demonstrate advanced practical skills related to space programming, layout and planning interior space, designing, and selecting furniture, lighting and color palette to achieve functional and sustainable interior design solutions with overcoming the design constrains while creating social and pleasing atmosphere with visual character and identity.

**Course Description:**

**Holistic Design**

The graduation project requires the student, under the supervision of a faculty member, to integrate and present all Engineering knowledges (Structural systems, ventilation, illumination, acoustics, construction technology, installation methods, materials specification), thinking, practical and technical skills, attributes and competences gained throughout the study of the program in a comprehensive and self-directed interior design project in accordance with his/her emerging interest and prospected career plan. The student is required to identify the capstone project theme, its design problems, and to set its design criteria and find out its appropriate solutions. Emphasis is giving on the full awareness of professional practice, creativity and originality of the design proposals, satisfying all design criteria & consolidations and adherent to relevant standards and codes (local and international building regulation and guidelines for construction, product and materials, Bahrain building regulations and barrier-free and accessibility regulations). Spatial design environments will be fully developed. CAD generated layouts, Computer generated images (CGI), animated



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(Courses' Descriptions)**

video, technical drawings, working drawing layouts and construction administration documents will be developed to present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted

### Engineering & Technology Domain

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	Lab
IT102	<a href="#">Introduction to Computer Applications</a>	5	-	2	1	0	2
<p><b>Course Description:</b></p> <p>The course divided to theory and practical parts.</p> <p><b>Theoretical Part:</b></p> <p>It presents an introduction to computer and information technology, and the basic computer concepts. This subject introduces survey of computers and information processing and their roles in society. It also introduces a historical perspective of computing, hardware, software, information systems, and human resources and explores their integration and application in business and other segments of society. It explains the binary number systems used in the computer systems, different types of computers, different types of hard ware, different types of software, different types of computer networks, and how is internet works and how to use web.</p> <p><b>Practical Part:</b></p> <p>Training students to use Microsoft Word, Excel and PowerPoint Applications in intermediate level.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED121	<a href="#">Engineering Mathematics</a>	5	Math095	3	2	2	0
<b>Course Aims</b>		<ol style="list-style-type: none"> <li>1- To raise the awareness of students about the potential of mathematics in the engineering discipline.</li> <li>2- To enhance mathematical and scientific skills of students.</li> <li>3- To Increase the understanding of students of basic algebra and calculus and their engineering applications.</li> <li>4- To identify, formulate and solve basic engineering problems</li> </ol>					
<p><b>Common Course to AE &amp; ID:</b></p> <p>The course prepares students to consolidate and develop their understanding of basic concept of mathematics and its applications in engineering disciplines. The course work includes matrices operations and methods to solve engineering problems, system of linear equations, trigonometric functions, and applications, it also covers the fundamentals of differentiation and integration and their applications in engineering area. The course will cover the basic knowledge and skills of mathematics needed for the next levels of study</p>							





Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	La b
IDES121	<a href="#">Mathematics for Interior Design Engineering</a>	6	AED121	3	2	2	0
<b>Course Aims</b>		1-To consolidate and extend the students' knowledge of mathematics and geometry skills that are required for quantity surveying. 2- To provide students with detailed understanding of mathematics' applications in interior design, including site measuring, plan stick-out, quantity and cost estimation and business plan. 3- To provide students with detailed practical knowledge of measurement systems and standard units. 4- To enhance students' skills in data classification analysis and interpretation.					
<b>Course Description:</b>							
<p>This course introduces the mathematical processes that are required for interior design engineers. The students recall and enhance their knowledge and skills of algebra and geometry with its practices for interior design process and interior design engineering business. The course subjects help the students to know the various types of measurement systems and standard units; they convert values from measurement system to another and from unit to another. The students practice geometry and mathematic principles to calculate area, volumes and dimension of regular and irregular shapes and forms. They measure the site, stick-out the plans. Moreover, students apply mathematical and geometrical formulas to calculate the quantity of interior materials and estimate the interior design project cost including materials, manufacturing, labour, taxes and fixed cost. The course also introduces the statistical functions of numerical values that necessary to classify, analyse and interpret surveyed quantitative information.</p>							

Course Code	Course Title	NQF Level	Pre requisite	C R.	Teaching Hours		
					L	ST	Lab
AED122	<a href="#">Building Physics &amp; Material Properties</a>	6	-	3	3	0	0
<b>Course Aims</b>		1- To develop general knowledge on principles of physics in relation to lighting, acoustics, airflow, fluid dynamics and heat transfer and transfer that knowledge to enhance their understanding of building technology.					



	<p>2- To develop knowledge on thermal, optical, acoustical of building materials and how these relate to building technology</p> <p>3- To develop a detailed understanding of the pervasive influence of physics in a design related discipline and its critical importance in developing practical design solutions.</p>
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**Course Description:**

This course contains two main parts. In the first, the students extend and consolidate their knowledge of physics and specifically the elements of the subject which relate to buildings, such as heat transfer, light properties, sound behavior, airflow, and fluid mechanics. The course provides an understanding of physics and specifically the impact and influence of concepts and practical applications of the subject which are applicable to building design. In the second part, the subject will cover aspects of thermal, optical, acoustical properties of building materials. The knowledge on material properties will enhance their understanding of selecting material for different requirements of the design.

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	Lab
IDES221	<a href="#">Structural Systems for Interiors</a>	6	IDES122	3	2	2	0
<b>Course Aims</b>		<p>1- Provide students' knowledge of structural principles of interior elements.</p> <p>2- To develop the students' knowledge of suitable structural systems of interior elements.</p> <p>3- Give students detailed knowledge of code and specifications of structural materials</p> <p>4- To enhance the students' ability to demonstrate application of structural systems through design proposal testing.</p> <p>5- To give students practical knowledge of how to select the proper structural system and materials for spatial design projects.</p>					
<b>Course Description:</b>							
<p>This course introduces the structural principles of interior elements including floors, walls, ceilings and roofs in addition to furniture and fixtures' structure. The student study forces, strengths, loads, materials, structural members and construction methods of various types of structural systems. The code and specifications of structural materials are subjects of study within this course. The course builds the students sense of structure through set of experiments in the workshop. They evaluate their design</p>							



proposals in term of materials strength, structure stability, balance and support.

Course Code	Course Title	NQF Level	Pre requisite	C R.	Teaching Hours		
					L	ST	La b
IDES222	<a href="#">Building Physics &amp; Components</a>	6	AED122	2	1	0	2
<b>Course Aims</b>		<p>1- To consolidate and enhance the students' knowledge of physics particularly in areas which are critical to architectural engineering and design - such as heat transfer, light properties, sound behaviour, airflow and fluid mechanics.</p> <p>2- To give students detailed contextual knowledge of physics applications in building.</p> <p>3-To give students basic knowledge of building systems.</p> <p>4- To give students knowledge of the components and functions of a range of building system and services.</p> <p>5- To develop the students' skills of reading technical drawings related to all types of building systems.</p> <p>6- To build the students capacity of linking sustainability with building systems.</p>					
<b>Course Description:</b>							
<p>This course contains two main parts. In the first, the students recall their knowledge of physics relative to buildings, such as heat transfer, light properties, sound behaviour, airflow, and fluid mechanics. The students know and understand the physics applications in building. In the second part, they study the main components and functions of various types of building systems; including illumination, acoustical, structural, constructional, electrical, communication, HVAC, plumbing, firefighting, and interior transportation systems. Technical drawings of such systems are presented to students to learn technical terminology, symbology and layout principles. The students explore the link of sustainability, human comfort, safety and wellbeing to the functions of building systems as an introduction to courses concerned with design of building systems.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES323	<a href="#">Interior Lighting &amp; Acoustics</a>	7	IDES222	2	1	2	0
<b>Course Aims</b>		<p>1- To consolidate and enhance the students' knowledge of building physics</p> <p>2- To enhance the students' awareness of lighting and acoustics theories and principles.</p>					

	<p>3- To provide students with detailed knowledge of materials and products of lighting and acoustics solutions.</p> <p>4- To equip the students with skills for lighting and acoustics testing and calculations in the buildings.</p> <p>5- To provide students with skills in developing sustainable solutions through subsequent design studio.</p>
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**Course Description:**

This course begins with a revision of building physics related to light and sound wave. it introduces students to two subjects, in the first part of this course, the students are introduced to theory and principles of light including, electro-magnetic spectrum, Photometric concepts and units of measurement, electric lamp technologies including lamp's types, colors and other specifications, psychological impact of lighting, User 'quality' assessment of illuminated spaces including control of glare, Daylight as an alternative to electric light, substantiable lighting strategies, and interior space illumination calculations. the second part of this course introduces students to acoustic theory and principles applicable to interiors such as the decibel scale, sound power, sound pressure, wave propagation, sound waves' reflection and refraction. Moreover, they study description and specifications of materials and products of acoustical solutions. Students conduct laboratory experiments and field testing to explore sound insulation values and identify sound transmission paths in buildings. The students practice the lighting and acoustics to provide standard technical documentations illustrate lighting and acoustics solutions and details for theaters and/or auditorium buildings taking into consideration the relevant cods and guidelines site environmental context, safety, comfort, and human wellbeing.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES321	<a href="#">MEP systems for Interiors</a>	7	IDES222	2	1	2	0
<b>Course Aims</b>		<p>1-To provide students with advanced knowledge of mechanical, plumbing, electrical systems, and related sub-systems.</p> <p>2- To provide students with detailed knowledge of subjective descriptors of buildings systems components.</p> <p>3- To develop students' skills to create accurate technical drawings and details of building components related to MEP systems.</p> <p>4- To prepare students for creating sustainability-based design solutions with respecting codes, standards and guidelines.</p>					
<b>Course Description:</b>							
<p>This course introduces the students to mechanical, plumping, and electrical systems in interior spaces. the course contains: Mechanical sub-systems that are not limited to</p>							

gods' transportation, lifts, escalators, mechanical ventilation, and water pumps; Plumbing sub-systems which are not limited to water supply, drainage, water-based firefighting, tanks, and sanitary fixtures; Electrical sub-systems that are not limited to artificial lights, power supply, telecommunication, mentoring, internal sound, fire alarm. Students study such system's components in terms of products, specifications, structure, symbology, and execution principles. Students learn how to assign and select each single component from perspective of sustainability, codes, regulations, standard and guidelines to achieve safety, human wellbeing, and comfort. They integrate each sub-system components into design of interior spaces to produce technical working drawings such as layout, and scheduling including quantity, description, specification, cost, brand, finish, and color. Students explore such systems through sets of site trips and experts' meetings.

Course Code	Course Title	NQF Level	Pre requisite	C R.	Teaching Hours		
					L	ST	Lab
IDES322	<u>Interiors Design Technology &amp; Construction</u>	7	IDES221	3	2	2	0
<b>Course Aims</b>		1-To provide students detailed knowledge of building construction methods. 2- To develop students' practical skills in developing technical drawings and details of building components. 3- To provide students with knowledge of latest technologies affecting the interior design. 4- To enhance students' skills in creating technology-based design solutions. 5- To enhance students' knowledge of latest technologies and skills in using these in the design process.					
<b>Course Description:</b>							
<p>This course introduces the students to two main subjects, first is the knowledge of the interior construction method and second is latest technologies affecting the interior design solutions. In the first subject, the students study various types of construction methods and techniques of all kind of interiors' elements, including structural and non-structural elements. That equips them for understanding and developing technical drawings and details of building components. The second subject introduces latest technologies those have impacts on the interior designs. The students obtain knowledge of how communication and information revolution lead to smart house projects, tiny house movement lead to futuristic design, virtual and augmented reality kits help designers and owners to stimulate the interior spaces, and 3D printing, scanning and cutting technologies are powerful for mass production.</p>							



Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES325	<a href="#">HVAC systems for Interiors</a>	7	IDES322	3	2	2	0
<b>Course Aims</b>		1- To provide students with detailed knowledge of environmental factors affecting design decisions. 2- To give students a detailed understanding of HVAC systems and components. 3- To provide the students with a better understanding of technical services requirements in the interior spaces. 4- To provide students with practical knowledge on assigning HVAC systems for different buildings. 5- To enhance the students communication skills through reading and creating technical working drawings.					
<b>Course Description:</b>							
<p>The course introduces the students into advanced background of human physiology and thermal comfort, natural ventilation and orientation of buildings, global climatic factors, elements and classification of climate, thermal balance of the body, comfort scales, heat exchange of buildings, solar geometry. Moreover, providing detailed knowledge of the three systems of HVAC: Heating systems in the building including central hot water heating and space warming; Ventilation system including mechanical, natural, mixed made and artificial ventilation; Air conditioning systems including window, split, Packaged, central, district cooling and chilled beam systems. The course provides principles of such system layouts, mechanism, theory of operation and technical details of its components. With respecting building codes, standards and sustainability guidelines, the students review exiting building and respond to design brief by selecting the suitable HVAC system for various categories of interior spaces considering building location, orientation, function, size, capacity and user activities in the building to achieve human wellbeing. The students communicate the HVAC system with others via reading and developing technical drawings of such systems.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES324	<a href="#">Codes for Interior Design Profession</a>	7	IDES322	2	1	2	0
<b>Course Aims</b>		1- Provide students with detailed knowledge of the conduct code of local and international interior design profession. 2- Provide students with detailed knowledge about Bahrain buildings permit procedures. 3- Train students to explore and critically evaluate the standards related to Interior Design in Unified Guidebook of Building					



	<p>Permit Regulations in Bahrain. 4- Develop students' critical appreciation of codes, standard and requirements for Bahrain buildings permit, including safety, water conservation, thermal insulation in various types of buildings</p>
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**Course Description:**

This course introduces the students to local and international code of conduct of interior design profession, including responsibilities to society, building owner, contractor and interior designer. It also introduces the students to unified guidebook of building permit and regulations of Bahrain, particularly those are related to interior design scope of works including signage, circulations, installation, materials, and constructions to adhere requirements of building permit regulators, including requirements for safety, water conservation, thermal insulation, sustainability, and human wellbeing in various types of buildings. In the course, the students also study criteria of green buildings ratings systems including LEED, BREEAM, Green Globes, Living Building Challenge, NZEB, Passive House Institute US, SITES, WELL Building Standard. Practices of buildings codes is part of practical part of this course to benchmark a provides design with building codes and sustainability requirements.

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
IDES421	<a href="#">Finishing Materials, Color and Texture</a>	8	IDES222	3	2	2	0
<b>Course Aims</b>	<p>1-To provide students with advanced knowledge and understanding of finishing materials specifications and properties. 2- To enhance the students' practical skills of finishing materials testing and exploration. 3- To give students advanced practical knowledge on material selection to achieve designs' objectives.</p>						
<b>Course Description:</b>							
<p>This course is concerned with three main subjects; it starts by introducing the finishing materials properties and specifications in terms of sources, locations, shapes, strength, workability, functionality, durability, sustainability, environmental compatibility, color, texture and construction technology of each. The second subject is teasing various types of available finishing materials in Bahrain markets. The third part focusses on principles of assigning materials for various building elements such as floors, walls, ceilings, stairs, doors, windows, furniture, and other structural</p>							

elements of interior spaces in various types of buildings. The course emphasizes the applications of interior finishes and materials in the context of their relations with aesthetic values and visual expressions, human wellbeing and comfort, health and safety factors, and environmental impacts and codes.

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	Lab
IDES422	<a href="#"><u>Smart &amp; Sustainable Green Technologies</u></a>	8	IDES323	3	2	2	0
<b>Course Aims</b>		1- To provide detailed knowledge of smart technology and artificial intelligence in interior design 2- To provide critical knowledge of principles which underpin sustainable green technology in interior design 3- To recognize and explore the rationale for implementing green and sustainable principles in interior design 4- To critically appraise sustainable issues in an interior environment 5- To enhance students' understanding of advanced smart technology in a range of interior designs					
<b>Course Description:</b>							
<p>The course offers students theoretical knowledge and practical opportunity to discover the sustainable principles and the smart and green technologies and applications of artificial intelligence in interior design for buildings that use integrated communication systems to manage the performance of the indoor environment and to support the quality lifestyle choices of the occupants. The course of smart &amp; green sustainable technologies focuses on the integration of social, digital communication, technological, economic, and environmental sustainability in interior design projects. Students apply the different communications, safety &amp; security, energy efficiency, materials, thermal comfort, water usage, low-carbon emissions, health &amp; well-being to minimize environmental impact and achieving sustainability for assigned project.</p>							



### Communication Domain

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
ENGL103	<a href="#">English for Academic Purposes I</a>	5	ENGL010	3	3	0	0
<b>Course Aims</b>		1- To focus on diction, sentence structure, punctuation and mechanics required for varied professional communication. 2- To improve critical reading and listening in the formal context. 3- To express ideas fluently in a well-organized manner.					
<b>Course Description:</b>							
This is an introductory course that prepares the students to communicate in correct English for academic and professional purposes. Students enhance their reading, writing, listening as well as speaking skills through classroom activities and compose ideas in varied specified formats. This course will help the students to develop contextual analysis, teamwork, word processing, documentation and professional communication.							

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
ENGL104	<a href="#">English for Academic Purposes II</a>	5	ENGL103	3	3	0	0
<b>Course Aims</b>		1. To be able to express ideas at an academic level and respond to associated questions. 2. To enhance reading and writing skills for academic and business purposes. 3. To improve competent speaking skills using effective delivery strategies					
<b>Course Description:</b>							
This is a course that develops the interpretative skills related to listening, speaking, reading and writing tasks that constitute professional communication. This course covers a process-based approach namely brainstorming, drafting, developing, revising as well as editing in writing and speaking tasks, plus skimming as well as scanning for the interpretation of the text in reading and listening tasks systematically. This course helps the students describe events, make comparisons and express their preferences and recommendations.							

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
ENGL202	<a href="#">English Writing for Communication</a>	6	ENGL104	3	3	0	0
<b>Course Aims</b>		1. To use and understand relatively complex English expressions. 2. To communicate in English with native speakers of the English language					



**Course Description:**

This is a course in English as a foreign Language that builds upon the critical, analytical and research skills to prepare students for future academic study. This covers compiling reviews, reports, notes, summaries, presentations as well as cite references. This course develops the students' academic reading strategies, ability to differentiate literal and inferential meanings plus competent speaking skills to defend their observations.

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
GS111	<a href="#">Arabic Language Skills</a>	5	-	3	3	0	0
<b>Course Aims</b>		<ol style="list-style-type: none"> <li>1. توظيف الطالب معارفه اللغوية ومهاراته التحليلية وخبراته الثقافية في تحليل النصوص ونقدها.</li> <li>2. تزويد الطالب بأساسيات قراءة النصوص الشعرية وتدووقها وتحليلها.</li> <li>3. تمكين الطالب من فهم النصوص المسموعة وتحليلها.</li> <li>4. تطوير قدرات الطالب القرآنية وفق منهجية متدرجة ومتماسكة.</li> <li>5. تمكين الطالب من التعبير عما في نفسه بلغة سليمة وميسرة ومفهومة.</li> <li>6. تطوير قدرات الطالب التواصلية مع الآخرين باللغة العربية الفصحى البسيطة.</li> <li>7. استخدام الطالب للقواعد النحوية الأساسية في التواصل الشفهي والكتابي</li> </ol>					
<b>Course Description:</b>		<p>دراسة أساسيات اللغة العربية صياغة وتركيبا ومعجما ودلالة وإملاء ، ومعالجة أساليبها قراءة وتدووقا ونقدا، وبيان خصائصها الجمالية وقيمها الدلالية والتعبيرية من خلال نصوص تتناول الأجناس الأدبية شعرا ونثرا.</p>					

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED131	<a href="#">Engineering Drawings &amp; Design Communications</a>	5	-	3	2	2	0
<b>Course Aims</b>		<ol style="list-style-type: none"> <li>1- To enhance the students' drawing skills</li> <li>2- To enhance the students' visual communication skills with different techniques</li> <li>3- To equip the students with skills in reading designs and drawings by their sight sense and estimation of scale, portion, and sizes.</li> </ol>					
<b>Course Description:</b>		<p><b>Common Course to AE &amp; IND</b> This course provides students with <b>fundamental</b> knowledge and <b>skills</b> of Engineering and technical drawings such as different types of projections, drawing</p>					

pattern, dimensions, scales, annotation. The students learn how to use manual drafting techniques to produce orthographic drawings, auxiliary views and section drawings of geometric solid and voided forms starting from simple forms to complex forms to lead them producing architectural drawings in different view such as plans, elevations, sections, and isometric, in addition to one and two vanishing point perspective. The students apply different types of architecture and design representation including colour, black and white toning, shade, and shadow.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED231	<a href="#">Drafting And Designing With Digital Media</a>	6	AED131	3	2	0	2
<b>Course Aims</b>		1- To enhance the students' Computer Aided Design skills 2- To enhance the students' visual communication skills with different computer's techniques 3- To train the students on Computer Aided Design utilization for developing readable, fast, accurate, and editable 2D and 3D architectural drawings.					
<b>Course Description:</b>							
<b>Common Course to AE &amp; ID:</b>							
This course introduces students to computers as a tool in the drafting and designing effort enabling students to create, edit, export and print drawings and sketches in specific scale and units using computers Software. Students are introduced to AutoCAD, SketchUp Pro or ArchiCAD as effective tools used for accurate and fast drawing. All commands of such software are demonstrated to the students that enables them to produce both two-dimensional drawings and rendered three-dimensional digit models correctly and efficiently through a professional training on such software in the computer labs. The students apply Computer Aided Design applications to develop complete set of architectural drawings including plans, sections, elevations, and perspectives.							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED232	<a href="#">Rendering Techniques and Animation</a>	6	AED231	3	1	0	4
<b>Course Aims</b>		1- To create a critical understanding of modeling and rendering technology and its application on the design process. 2- To give students practical knowledge and skills in utilizing design communication software for developing rendered images					

	and animated scenes for architecture and design projects. 3- To equip students with digital visualization skills that help them in project-based courses.
<b>Course Description:</b>	
<b>Common Course to AE &amp; IND</b>	
The course introduces students to the world of 3D modelling. It explores the fast growing field of computer animated dynamic presentations – a tool that is widely used in the architecture practice. The course covers the development of rendered still images as animated field / frame – accurate recording. A basic software package handled through the course to allow students to gain practical experience. However, all universal concepts will also be covered in this course, including human vision, camera angles, perspective correction, and finally, scene composition. Image recurring and rendering applications are also introduced.	

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED331	<a href="#"><u>BIM for Design and Construction drawing</u></a>	7	AED231	3	2	0	2
<b>Course Aims</b>	1- To provide students with critical knowledge of BIM technology and its application on the design process. 2- To give students advance practical skills on utilizing BIM applications for developing architecture and design projects. 3- To provide students with practical digital visualization skills which underpins their work on project-based courses						
<b>Course Description:</b>							
<b>Common Course to AE &amp; ID:</b>							
The course introduces students to the principles of Building Information Modeling (BIM) such as the Autodesk ® Revit Architecture application. Students have knowledges of functions of menus, options and tools of Revit Architecture including user interface, straight and flexing parameters, system and non-system families, massing, components of building elements such as walls, windows, doors, floors, roofs, stairs, ramps and ceiling. It is a training-based course enable students to create design ideas, asses building models in terms of lighting, shadow, heating, and veneration, and communicate the designs through producing rendered perspectives, animated senses, complete sets of working drawings, shop drawings, building details and construction documents such as BoQ and quotations. students practice building information modeling technology to visualize, stimulate, document and assess spatial design projects in which architecture engineering students focus on forms, spaces, building envelop, landscape and structure of building elements, while Interior design students focus on space, finishing materials, furniture and lighting and building elements' surfaces designs.							



Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES331	<a href="#">BIM for Services and Interior Detailing</a>	7	AED331	3	2	0	2
<b>Course Aims</b>		1- To provide students with detailed knowledge of BIM technology and its application in the holistic design process. 2- To provide students with practical knowledge and skills in utilizing BIM applications for developing architectural details and building systems. 3- To enhance students' generic and transferable skills in collaboration, coordination, and management.					
<b>Course Description:</b>							
<p>The course introduces the principles of Building Information Modelling to integrate architectural, structural, mechanical, plumbing and electrical objects in interior modules. It continues to introduce the students to furthered BIM utilization for developing details of building elements and layouts of services systems. Students practice BIM technology to develop callouts of different building's elements to illustrate flooring layers; partition walls' structure; water, sound and heat insulations; and subassemblies of doors, windows, furniture and curtain walls. They also practice BIM technology to develop HVAC, Mechanical, Electrical and Plumbing system layout plans. Thus, they can coordinate the project and collaborate with the design team to avoid conflicts and achieve holistic design solutions.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES431	<a href="#">Virtual simulation of Spatial Design</a>	8	IDES331	3	2	0	2
<b>Course Aims</b>		1- To provide students with advanced knowledge of virtual reality technology and methods. 2- To give advanced knowledge to enhance students' experience of human-computer interaction in the design process. 3- To enable students to develop advanced simulation and visualization skills.					
<b>Course Description:</b>							
<p>The course introduces students to visualization and virtual reality methods of design interior spaces. The students explore the visual and human-computer interaction design process through using the computer applications to design an</p>							



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**College of Engineering & Design  
Department of Interior Design  
Bachelor in Interior Design  
(Courses' Descriptions)**

innovative virtual interior space design that could be used in gaming design, TV and Video, and Cinema production, educational activities. The course is delivered in virtual reality studio to which enable students to explore the extents of virtual and real space through a combination of research-based and practice tasks for creating and presenting innovative design ideas.

### History and Theory Domain

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
GS133	<a href="#">History of Bahrain</a>	5	-	3	3	0	0
<b>Course Aims</b>		<p>1. التعرف تاريخ البحرين عبر العصور. 2. إبراز التحولات التاريخية القديمة والوسيط والحديثة والمعاصرة. 3. تقدير المساهمة الحضارية للبحرين إقليمياً ودولياً</p>					
<b>Course Description:</b>		<p>يتناول المقرر موقع البحرين وأهميته عبر العصور ، كما يبرز الخصائص الجغرافية للبحرين ، ويركز في تاريخ البحرين القديم والوسيط والحديث والمعاصر ، فيبرز التطورات والتحولات السياسية والاقتصادية والاجتماعية والثقافية وصولاً إلى بيان أهمية الدولة المعاصرة وإنجازاتها.</p>					

Course Code	Course Title	NQF Level	Pre requisite	CR	Teaching Hours		
					L	ST	La b
LAW106	<a href="#">Human Rights</a>	5	-	2	2	0	0
<b>Course Aims</b>		<p>1. اكتساب المعارف القانونية المتعلقة بحقوق الإنسان. 2. اكتساب المهارات اللازمة لتطبيق القواعد القانونية علي مشكلات وقضايا حقوق الإنسان المثارة وتقييمها واقتراح الاجابات الملائمة لها في ضوء مبادئ القانون الدولي لحقوق الإنسان. 3. استخدام أنماط التفكير التحليلي مجالات حقوق الإنسان . 4. اعداد البحوث وكتابة التقارير المرتبطة بمجالات حقوق الإنسان.</p>					
<b>Course Description:</b>		<p>يتناول هذا المقرر المفاهيم الأساسية لحقوق الإنسان في القانون الدولي والمواثيق العالمية والمعاهدات والتوصيات المنبثقة عن المؤتمرات والتجمعات الدولية، كما يتناول دراسة الحقوق والحريات الأساسية بموجب الاتفاقيات الدولية والحماية المقررة للأفراد بموجب الدساتير والإعلان العالمي لحقوق الإنسان.</p>					

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES241	<a href="#">History and Theories of Art and Design</a>	6	ENGL104	3	2	2	0
<b>Course Aims</b>		<p>1-To enhance the students' knowledge and understanding of the basic architectural and interior design elements, as well as the design aesthetic aspects and principles to be considered in designing interior spaces. 2-To give students knowledge of a range of human centered design approaches and its application in Interior Design 3-To introduce students to color vocabulary and color theory and</p>					



	<p>its application in interior spaces</p> <p>4-To enhance the students' perception and awareness about the role of colors and design elements in creating a harmonious and visual balanced interior space.</p> <p>5-To give students knowledge of the design movements and schools in the 17th and 18th centuries.</p>
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**Course Description:**

This course introduces the physical and aesthetical principles implemented in the design of interior spaces. It stresses the theory of design and its influences in the formation of comfortable interior environments. It focuses also on color theories, vocabulary, its relationship with lighting principles and its application to create visually pleasing interior atmospheres. In addition, the course provides a critical overview, within a chronological framework, on the evolution of the 17th and 18th centuries. Applications include conceptual thinking in the history of art, architecture and interior design. Socio-cultural aspects are highlighted in the course with emphasis on its impact on the Human lifestyle.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES242	<u>Modern History of Architecture, Art, &amp; Design</u>	7	IDES241	3	2	2	0

<b>Course Aims</b>	<p>1-To provide students with detailed knowledge of the architectural and design schools and styles in the 19th and 20th century.</p> <p>2-To critically review the cultural, social, technological and economic aspects during the 19th and the 20th centuries and its impact on creating contemporary design contexts</p> <p>3-To enhance students' understanding and critical appreciation of the contribution of design pioneers to modern architecture.</p>
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**Course Description:**

The course introduces the students to the development of the emerged architecture and design schools and styles in 19th century and 20th centuries that influenced and formed the modern History of design, architecture, decorative arts and arts creating modern Interior design styles. Cultural, social, technological and economic aspects are stressed within this course. Thus, the students are required to analyze and evaluate historical and ancient Interior environments through searching for case of studies, reporting and presenting texts. Then, they are able to apply this knowledge in forming design concepts which are inspired from the taught design styles and respond to the design thinking of the pioneers of these styles.



Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
<b>IDES341</b>	<b><u>Global Contemporary Interior Architecture</u></b>	8	IDES242	2	1	2	0
<b>Course Aims</b>	<p>1-Provide students with a critical knowledge and understanding of the most significant and influential movements in the profession of Interior Architecture</p> <p>2-Enhance students' knowledge and understanding of the most recent and well-known projects, firms, designers and experimental work in the field.</p> <p>3-Develop students' critical capacity to appraise and evaluate the relationship between contemporary design concepts and emerged technology approaches with economic, social and cultural contexts</p> <p>4-To equip students with analytical skills to evaluate creative historical work and appraise existing interiors in term of function, psychology and economy; relating the significance of these designs with the enhancement of human life quality and development of communities.</p>						
<b>Course Description:</b> <p>The course addresses the existing, occurring and current popular trends in the profession of interior architecture. The course investigates the most recent interesting local, regional and international interior design project, well known interior design/architecture firms, celebrated designers, and experimental work. Multiple design concepts and emerged technology approaches are discussed in theoretical lectures to identify the relationship between design and economic, social, cultural, geographical, political, environmental, ecological contexts of contemporary architecture. Student is asked to analyse and evaluate creative precedents work and appraise existing interiors in term of function, psychology and economy in order to relate the significance of these designs with the enhancement of human life quality and development of communities.</p>							



*Professionalism domain*

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
GS102	<u>Creative Thinking</u>	5	-	2	2	0	0
<b>Course Aims</b>	<p>1. التعريف بمفهوم الإبداع ومستوياته؛ ومحاورة الرئيسة: الشخص المبدع، بيئة الإبداع، المنتج الإبداعي، والعملية الإبداعية، وأهم معيقاتها.</p> <p>2. التعرف على مهارات التفكير الإبداعي والتمييز بينها وبين أدوات (تكنيكات) التفكير الإبداعي</p> <p>3. التخلص من قيود التفكير التقليدي في حل المشكلات. (الخروج من الصندوق)</p> <p>4. تدريب ملكات الطالب الإبداعية وتطويرها لتشكيل عنصراً فعالاً في عملية حله للمشكلات بصورة إبداعية.</p> <p>5. توظيف أنماط التفكير الإبداعي في كافة مجالات الحياة: الشخصية، الدراسية، الوظيفية.</p> <p>6. تشكيل اتجاهات إيجابية نحو موضوعات الإبداع ومجالاته.</p>						
<b>Course Description:</b>	<p>ينقسم هذا المقرر إلى ثلاثة أقسام:</p> <p>القسم الأول: مدخل للتفكير الإبداعي، في هذا القسم يتعرف الطالب على الخلفية الفكرية والجوانب النظرية للتفكير الإبداعي، وهي:</p> <p>1. تحليل لمفهوم التفكير الإبداعي.</p> <p>2. دراسة لمكونات الإبداع، ومعيقاته.</p> <p>القسم الثاني: مهارات التفكير الإبداعي، وفي هذا القسم يتعرف الطالب على ملكات الإبداع الفكرية، وذلك بهدف تدريبها وتعلم توظيفها في مختلف جوانب الحياة. وهي: مهارة الطلاقة، مهارة المرونة، مهارة الأصالة، مهارة الميل إلى التفصيلات، مهارة الحساسية للمشكلات، مهارة الاستنتاج والمنطق، مهارة المقارنة والمباينة، مهارة التنبؤ، مهارة مواصلة الاتجاه، مهارة الخيال البصري، مهارة التركيب، ومهارة تجريد العناوين.</p> <p>القسم الثالث: أدوات التفكير الإبداعي، وهي أدوات تم تصميمها لتسهيل عمليات التفكير الإبداعي، ومنها: أداة الملائمة الجبرية، أداة قائمة التصنيفات، أداة معالجة الأفكار، أداة اعتبار جميع العوامل، أداة العمومية والشمولية، أداة التجزئة والتقسيم، أداة القوة الموازنة، أداة سلم التجريد، أداة العصف الذهني، أداة سكامير، أداة المصروفة المورفولوجية، أداة الحجر المتدرج، أداة معارضة المفهوم، أداة القبعات الست للتفكير.</p>						

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
AED251	<a href="#">Design Research Methods</a>	6	ENGL103 + ARD111	2	2	0	0
<b>Course Aims</b>		1- To develop knowledge on types of research methodologies applicable to discipline of architecture and interior design 2- To provide students with a detailed understanding of research methods and methodology 3- To develop students' skills to acquire, retrieve and analyze resources, evidence and precedents					
<b>Course Description:</b>							
<b>Common Course to AE &amp; ID:</b>							
<p>The course provides an overview of diverse research types, methods, and processes related to design. This course covers different types of research according to different classifications; the importance of literature reviews; survey strategies, such as questionnaires, interviews, observations, and experimental studies; and different models of research. In this course, students learn about information collection, quantitative and qualitative analysis, and result from interpretation and representation using a variety of tools and methodologies. Students are taught to make design decisions based on research results and evidence.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES251	<a href="#">Training (Internship I) (in Summer semester)</a>	7	56 Cr. Hs	1	(100 working hours)	0	0
<b>Course Aims</b>		1- To provide students with detailed practical knowledge and experience of site measurement. 2- To provide the students opportunity to identify site constrains in a real-life situation. 3- To enhance students' knowledge and skills in reading drawings and articulating documentation. 4- To provide students with real life practical knowledge of local brands, materials, and suppliers					
<b>Course Description:</b>							
<p>This internship course provides work-based experience in a workplace runs interior design projects and services. The internship requires the work undertaken to be under</p>							

supervision of field supervisor with emphases on site measurement, identifying site constraints, drawing reading, and knowledge of local brand, materials, and suppliers. The trainee student presents a report in front of jury panel for final course's assessment. The report should prove students attending at least 100 working hours in the design office(s) and/or interior construction firm(s).

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES351	<a href="#">Training (Internship II) (in Summer semester)</a>	8	100 Cr.Hs	2	(200 Working Hours)	0	0
<b>Course Aims</b>		1- To give students an advanced understanding of Interior Design organization structure. 2- To provide students with detailed practical knowledge of the Interior Design professional context. 3- Give students practical on-site analysis experience. 4- To give students skills to problem solve on real life project. 5- To develop student skills of Interior Design teamwork and inter-disciplinary collaboration.					
<b>Course Description:</b>							
<p>This internship provides work-based experience in a workplace runs interior design projects and services in accordance with the student's area of interest and selected career plan which is composed with elective and graduation project courses, mainly furniture, adaptive transport and scenography design. The internship requires the work undertaken to be based on training plan and under supervision of academic supervisor and field supervisor with emphases on knowledge reflections and development of professional practice in spatial design field including project cost, schedule, contract, manpower, and management. Moreover, the trainee students produce project documentation including working drawing, bill of quantity, cost estimation, specification, and construction technology. The trainee student presents a report in front of jury panel for final course's assessment. The report should prove students attending at least 200 working hours in the design office and illustrate tanning evidences that are not limited to minus of meetings, design brief, photos, project documentations, and construction sites.</p>							

Course	Course Title	NQF	Pre	CR.	Teaching Hours
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Code		Level	requisite		L	ST	Lab
IDES451	<a href="#">Design Profession Development &amp; Portfolio</a>	8	IDES351	2	1	2	0
<b>Course Aims</b>	<p>1-Equip students with the advanced skills and knowledge needed to design and present a portfolio document and curriculum Vitae to prepare them for job interview</p> <p>2-Provide students with detailed knowledge of manpower management, time management and risk management</p> <p>3-Give students detailed knowledge of the principles of Business Planning including scheduling, preparing project specifications, and estimating the project cost and budget</p> <p>4-Give students detailed knowledge of Business strategies including pricing Interior Design services and calculating the design fees</p> <p>5-Raise the students' awareness about the correct methods to develop detailed transmittal letters and legal contract documents compliant with relevant laws</p>						
<b>Course Description:</b>							
<p>The course introduces the basic principles of Business Planning including scheduling, preparing project specifications and estimating the project cost and budget. Throughout, students are able to develop their skills in reading, drafting and analysing legal documents such as contracts and developing detailed transmittal letters encouraging the relation between designers and other design parties (e.g., contractor, supplier.). In this course, students are introduced to business management principles such as manpower management, time management, risk analysis and mitigation plans. Added to that, students are introduced to how to prepare for job interviews through the preparation of curriculum vitae and design portfolio documents.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES452	<a href="#">Professional Practice &amp; Management</a>	8	IDES451	2	1	2	0
<b>Course Aims</b>	<p>1-To provide accurate and detailed knowledge about the professional responsibility of the Interior designer</p> <p>2-To provide advanced knowledge of the most recent rules, regulations, and legislation relevant to the Interior Design Profession</p> <p>3-To develop students' skills regarding professional development by benchmarking their own strengths and needs in a SWOT analysis document</p>						



- 4-To provide students with essential knowledge of project management principles and strategies in the Interior Design field
- 5-To develop students' collaborative skills to work with multi-interdisciplinary professions
- 6-To provide detailed information to students about the marketing types, strategies and steps needed to advertise the Interior Design firm and its services
- 7-To raise student awareness of local and global marketing challenges

**Course Description:**

The course introduces the most recent rules, regulations and legislative laws that are relevant to interior design professional practice. The course covers the legal, ethical, social, and business responsibilities of the interior design professional and this includes relationships with clients, colleagues and other project parties that are essential for succeeding an interior designer career. In addition, professional career development, establishing an interior design practice, marketing types, strategies and steps are incorporated as part of the course and this includes market challenges and creative business initiatives in the local and global competitive interior design practice. Throughout this course, students are introduced to project management principles and strategies in the interior Design field with a focus on identifying the Interior design firms' strengths and needs (compiled in a SWOT analysis document) which is a requirement for effective business development.



*Career Focus Elective Domain*

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES361	<a href="#">Scenic Design</a>	7	IDES212	3	2	2	0
<b>Course Aims</b>		<ol style="list-style-type: none"> <li>1- Provide students with detailed knowledge of the fundamental theories of scenic design</li> <li>2- Ensure students understand the historical background of scenic design and the socio-cultural contexts of its creation</li> <li>3- Provide students with knowledge of the technical consideration of scenic design such as light and acoustics, furnishing assembly and partition multiple use</li> <li>4- Critically discuss aesthetical design principles in the field of scenic design color palette, finishing materials and textile selections</li> <li>5- Enhance students' visual communication skills</li> </ol>					
<b>Course Description:</b>							
<p>This course is a theoretical introduction for scenic design discipline including fundamental topics such as stage, Studio, cinema and 3d animation films design. This course examines theory of scenic design as currently practiced, as well as historical traditions for use of temporary set environments and audience/performer engagement. This course emphasizes also the social, political and cultural contexts of the creation and development of such spaces. Students are introduced to technical considerations of scenic design such as light and acoustics, furnishing assembly and partitions multiple use; as well as aesthetical considerations mentioning color palette, finishing materials and textile fittings to a pre-defined temporary set environment. Practice assignments are introduced to students to apply their knowledge in this field showing visual communication skills through storyboarding and a scaled 3D model</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES362	<a href="#">Design for TV Studio Set</a>	7	IDES361	3	2	2	0
<b>Course Aims</b>		<ol style="list-style-type: none"> <li>1- Provide students with detailed knowledge of theories of studio set and theatre stage design</li> <li>2- Enable students to understand the historical background of studio set and theatre stage design and the socio-cultural contexts of its creation</li> <li>3- Provide students with relevant knowledge of technical consideration of studio and theatre stage design such as light</li> </ol>					

	<p>and acoustics, camera direction and furnishing assembly.</p> <ol style="list-style-type: none"> <li>4- Provide students with details of the aesthetical design principles in the field of TV set and theatre stage design such as color palette, finishing materials and decorative elements selections to assemble an adequate visual language</li> <li>5- Give students detailed knowledge of the functional aspects of TV set design such as the show type (news, entertainment, comedy, arts, music or game shows), space occupation (presenter, guests, and audience), visual angles.</li> <li>6- Give students detailed knowledge of the functional aspects of theatre stage design such as script breakdown and character analysis.</li> <li>7- Enhance the students' visual and verbal communication skills through the production and presentation of the storyboards, blocking diagrams, furnishing plans, technical drawings and Computer Generated 3Ds and animations.</li> </ol>
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**Course Description:**

This course presents a theoretical framework of TV studio and theatre stage design disciplines including theories and historical background of the manifestation of TV set and theatre stage design. The students apply the theoretical knowledge gained in the semester by developing mini projects related to: Television Studios and theatres stages. The students are introduced to various aspect of TV studio and theatre stage design; including **the functional aspects**: the studio activity, space occupation, visual angles, script breakdown and character analysis; **the technical aspects**: architectural venue, lighting resources, acoustical systems, furnishing assembly, camera directions, and scenery construction; and **the aesthetical aspects**: finishing materials, color palette selection, decorative elements in order to assemble an adequate visual language. Students will utilize visual and verbal communication skills to present projects of a specific TV show in the midterm project and theatre show in the final project. The projects will include storyboards, furnishing plans, technical drawings, blocking diagrams, Computer Generated 3Ds and 3Ds animation films.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES363	<a href="#"><u>Furniture Structure, material, &amp; Detailing</u></a>	7	IDES212	3	2	2	0
<b>Course Aims</b>	<ol style="list-style-type: none"> <li>1- To provide students with a robust understanding and awareness of the importance of form and shape to create stable and functional furniture pieces</li> <li>2- To give students advanced knowledge of the variety of joint</li> </ol>						





	<p>details and its application in furniture pieces</p> <p>3- To provide students with detailed knowledge of a wide range of materials and finishing applicable for furniture design</p> <p>4- To give students enhanced skills in creating technical drawings of different structural systems of a furniture product.</p>
<p><b>Course Description:</b></p> <p>The course provides the basic principles of furniture structures, material, joints, form and finishing. Students are asked to develop CAD generated drawings showing the detailed morphology of the furniture pieces and its nomenclature. This course focuses also on the various types of furniture materials and its finishing layers as well as its proprieties and the importance of these parameters to create a stable and functional furniture piece. The courses also emphasize improving the students' representation skills in regards to furniture detailing including the drafting of scaled and proportional technical documentation and professional drawings. A basic prototype model of a furniture piece is produced at the end of the semester using its real materials and applying the theoretical knowledge gained during the course to provide an accurate structural system of the product design and supported by technical drawing and design documentations.</p>	

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES364	<a href="#"><u>Manufacturing &amp; Packaging process</u></a>	7	IDES363	3	2	2	0
<b>Course Aims</b>	<p>1- To give students detailed knowledge of the process of tracking of furniture raw and finishing materials including material procurement, supplier portal and investigation bill of materials</p> <p>2- To give students detailed knowledge of business-related operations and strategies which cover stock management, batched inventories and replenishments in furniture industry</p> <p>3- To raise the students' awareness of the Innovation approaches, technical challenges and quality control in furniture industry</p> <p>4- To equip students with theoretical knowledge about the process flow of furniture manufacturing including, cutting and modelling, components fabrication, assembly process and finishing layering</p> <p>5- To give students detailed knowledge of the variety and role of machines which support the manufacturing process of furniture pieces.</p> <p>6- To raise the students' awareness about the importance of packing and its steps to finally insure the delivery/shipping of furniture products</p>						



<p><b>Course Description:</b></p> <p>This Course is a theoretical framework of furniture manufacturing and packing processes, Innovation approaches, technical challenges and quality control in furniture industry. Students are introduced to the industrial processes flow including cutting and modelling, components fabrication, assembly process and finishing layering and the variety of machines insuring this industry. Students are presented to the importance of furniture packing and its steps to finally insure the delivery/shipping of furniture products. Focus is addressed to the role of interior designer in tracking the raw and finishing materials of furniture products including material procurement, supplier portal and investigation bill of materials. This course highlights also professional aspects in the field of furniture industry such as Stock management, batched inventories and replenishments.</p>

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES365	<a href="#"><u>Recycling &amp; Conservation Methods</u></a>	7	IDES212	3	2	2	0
<b>Course Aims</b>	<ol style="list-style-type: none"> <li>1- To provide students with knowledge of an extensive range of recycling methods</li> <li>2- To raise students' awareness about the benefits of recycling to the human wellbeing, the environment preservation and the community enhancement</li> <li>3- To enhance students' understanding of the importance of conserving interior spaces</li> <li>4- To provide students with detailed knowledge of relevant sustainability regulations and rehabilitation codes</li> <li>5- To equip students with technical skills to take accurate measurements when implementing recycling strategies</li> </ol>						
<p><b>Course Description:</b></p> <p>This Course is a theoretical framework of the principal methods of recycling and conserving within interior environments. It includes a deep introduction about sustainability approach and its respective techniques. This course highlights also environmental aspects in the field of conservation and recycling such as human wellbeing, environment preservation and community enhancement. It focuses on relevant sustainability regulations and rehabilitation codes and its application in interior environments. Throughout this course, the student is exposed multiple examples of old interior spaces to be conserved and is asked to take accurate measurements of its structural system and produce detailed working drawings</p>							



documents.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES366	<a href="#">Structure &amp; Materials of Transportation means</a>	7	IDES365	3	2	2	0
<b>Course Aims</b>	1- Provide students with detailed knowledge of the range of product and finishing materials used in means of transportation, its terminologies, and respective specifications 2- Provide detailed knowledge of the typology and nomenclature of the different transportation means 3- Introduce students to the diversity of structural systems deployed within transportation means 4- Raise students' awareness about the multiple factors affecting the design of transportation means mentioning environmental conditions, safety precautions, structural load, functional and aesthetical enquiries						
<b>Course Description:</b>							
<p>Throughout this course, students are introduced to the variety of transportation means which can be transformed to Interior environments with specific function, the typology and nomenclature of this precise type of interior environment is revealed during this course. Focus is directed to marine, air and land transportations means because of its particular considerations and large usage. Within this course, multiple transportation product and finishing materials are exposed with its specific market terminologies and respective specifications. Technical issues are explained mentioning the diversity of structural systems and the calculation of the bearing load ensuring the structural integrity of the transportation mean as an interior space. Students are exposed to different aspects affecting the design of this specific type of environments mentioning environmental conditions (thermal, acoustical and lighting factors), safety precautions, functional and aesthetical enquiries.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES461	<a href="#">Design for Cinema Set</a>	8	IDES362	3	2	2	0
<b>Course Aims</b>	1-Introduce students to the fundamentals and theories of cinema set design 2-Introduce students to the historical background of cinema set design and the socio-cultural contexts of its creation						



	<p>3-Familiarize students with technical consideration of cinema set design such as light and acoustics, camera direction, visual angles, scenery construction and location film work</p> <p>4-Familiarize students with the aesthetical design principles in the field of cinema set design such as color palette, textile, finishing materials and decorative elements selections to gather the appropriate visual language needed for the scenes</p> <p>5-Familiarize students with the functional aspects of cinema set design such as script breakdown and character analysis</p> <p>6-Equip students with the skills needed to perform a script analysis technique necessary to gather visual information required for the design</p> <p>7-Enhance the students' visual and verbal communication skills through the production of the storyboard, the furnishing plan, the technical drawings and the Computer Generated 3Ds.</p>
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**Course Description:**

This course presents a theoretical framework of cinema design discipline including fundamentals theories and historical background of the manifestation of cinema set design. The students apply the theoretical knowledge gained in the first weeks of the semester by developing one mini project: multi-camera cinema Studio throughout the second part of the semester. The students are introduced to various aspect of cinema set design; including **the functional aspects**: script breakdown and character analysis; **technical aspects**: light and acoustics, camera direction, visual angles, scenery construction and location film work; and **the aesthetical aspects**: color palette, textile, finishing materials and decorative elements selections needed to gather the appropriate visual language needed for the scenes. At the end of the semester, the students utilize visual and verbal communication skills to present the final project of a specific cinema scene including the storyboard, the furnishing plan, the technical drawings and the Computer Generated 3Ds.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES462	<a href="#"><u>Manufacturing &amp; Packaging process</u></a>	8	IDES364	3	2	2	0
<b>Course Aims</b>	<p>1- To give students detailed knowledge of the process of tracking of furniture raw and finishing materials including material procurement, supplier portal and investigation bill of materials</p> <p>2- To give students detailed knowledge of business-related operations and strategies which cover stock management, batched inventories and replenishments in furniture industry</p> <p>3- To raise the students' awareness of the Innovation approaches,</p>						



	<p>technical challenges and quality control in furniture industry</p> <p>4- To equip students with theoretical knowledge about the process flow of furniture manufacturing including, cutting and modelling, components fabrication, assembly process and finishing layering</p> <p>5- To give students detailed knowledge of the variety and role of machines which support the manufacturing process of furniture pieces.</p> <p>6- To raise the students' awareness about the importance of packing and its steps to finally insure the delivery/shipping of furniture products</p>
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**Course Description:**

This Course is a theoretical framework of furniture manufacturing and packing processes, Innovation approaches, technical challenges and quality control in furniture industry. Students are introduced to the industrial processes flow including cutting and modelling, components fabrication, assembly process and finishing layering and the variety of machines insuring this industry. Students are presented to the importance of furniture packing and its steps to finally insure the delivery/shipping of furniture products. Focus is addressed to the role of interior designer in tracking the raw and finishing materials of furniture products including material procurement, supplier portal and investigation bill of materials. This course highlights also professional aspects in the field of furniture industry such as Stock management, batched inventories and replenishments.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES463	<a href="#"><u>Interior Demolition and Transformation</u></a>	8	IDES366	3	2	2	0
<b>Course Aims</b>	<p>1- Give students detailed knowledge of the adaptive reuse approach for interior spaces and transportation means.</p> <p>2- To equip students with technical skills to take exact measurements of existing interior spaces and old transportation means to be transformed later to functional interior environments</p> <p>3- To raise students' awareness about the importance of creating sustainable interior environments within transportation means which has a beneficial impact on the human wellbeing, economic, cultural, and ecological contexts and contribute the enhancement of life quality of spaces' users</p> <p>4- To give students detailed knowledge of codes and regulations related to the adaptive reuse principles and standards.</p> <p>5- To raise the students' awareness about the physical (structure,</p>						



	material, suitability of new function, dealing with demolition waste to reduce landfills, etc.) and non-physical (style, unity of the transport, heritage value, etc.) constraints and considerations of change the space function
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**Course Description:**

This course introduces the students to transformation and adaptive reuse strategies for interior spaces of building and transportation means. Demolition principles, technical and structural constraints are discussed highlighting the physical (structure, material, suitability of new function, dealing with demolition waste to reduce landfills, etc.) and non-physical (style, unity, heritage value, etc.) constraints and considerations. This course focuses on the importance of creating sustainable interior environments within buildings and transportation which has a beneficial impact on the human wellbeing, economic, cultural and ecological contexts and contribute the enhancement of life quality of spaces' users. The students apply the technical knowledge gained in the first part of the semester in a case of study where they are asked to take exact measurements of old transportation means or an existing building to be transformed later on to provide functional interior environments.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES464	<a href="#">Event Planning Project</a>	8	IDES461	3	0	6	0
<b>Course Aims</b>	1-To enhance the students' awareness about the aesthetical aspects of event planning when designing the event in order to select the event theme including the choice of the color palette, textiles, decorative lights and furnishings 2-Give students detailed knowledge of prior creative event planning works and assess their ability to appraise and judge these designs 3-To develop the students understanding and the integrated nature of a wide range of processes including set design, lighting and sound design, planning, scheduling, budgeting, and event management 4-To provide students with high level technical skills to record exact measurement from the event venue to produce scaled technical documentation for the projects 5-To give students' practical skills based on theoretical concepts to ensure they can implement a systematic design process to respond to the event type, event participants' needs and site constraints to generate innovative design ideas 6-To support students' teamworking skills through the collaboration with different event planning team such as the event director, the coordinators of the program, the venue, the equipment, the						



promotions, the hospitality, and the merchandising  
7-Enhance the students' visual and verbal communication skills through the production of the storyboard, the furnishing plan, the technical drawings, and the Computer-Generated images

**Course Description:**

The course comprehensively covers the design process of event planning project to respond to the event type, clients' needs and site constraints in order to generate innovative design ideas. The selected event theme should comply with the choice of the color palette, textiles, decorative lights and furnishings which demonstrate the aesthetical senses of the students. This course investigates the enhancement of proficiency skills of students in various aspects including set design, lighting and sound design, planning, scheduling and budgeting, and event management. Before beginning the design, the student is introduced to the creative precedent event planner works to be able to appraise and judge their designs and produce an original design idea. The students will be given an event type (Birthday Party, Weddings, Celebrity/Artiste show, Conference/Seminar, Corporate Event, Exhibitions and Trade Fairs, Fashion Shows, Product Launches, street festivals...), event participants' profiles and pre-defined event venue for which they are requested to record the exact measurements in order to produced scaled technical documentation for the projects. The students contribute, throughout this course, with different event planning team such as the event director, the coordinators of the program, the venue, the equipment, the promotions, the hospitality and the merchandising; in order to come up with a consistent event scene. Storyboard, the furnishing plan, the technical drawings and the Computer Generated Images will be developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES465	<a href="#">Modular Furniture Project</a>	8	IDES462	3	0	6	0
<b>Course Aims</b>	1-To enhance the students' awareness about the aesthetical sense of furniture designer when designing the product piece/series by selecting a concept /theme used in their designs 2- Give students detailed knowledge of prior work of furniture designers and ability to appraise and judge these designs 3-To develop the students understanding and application of the integrated processes used in the furniture industry including furniture production, manufacturing and packing 4-To provide students with high level technical skills to produce scaled and detailed working drawing documentation for modular furniture projects						





	<p>5-To develop students' practical skills based on sound theoretical concepts to enable them to implement a systematic design process to respond to the furniture type, product multi-functionality, users' profiles and needs, limited budget constraint to generate innovative design ideas</p> <p>6-To support students teamwork skills when collaborating with different industrial parties and local material suppliers</p> <p>7-To give students detailed knowledge of specialized furniture software such as BOM Browser, Solid Works and CAD pro furniture design</p> <p>8-To enhance the students' visual and verbal communication skills through the production of the prototype model, the technical drawings, product specification document and bill of quantity</p>
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**Course Description:**

The course explores the design process by means of a furniture project in which learners must respond to the furniture type, users' profiles and needs and limited budget constraint in order to generate innovative design ideas for modular furniture products. The selected design concept should comply with the choice of the color palette, textiles, raw and finishing materials and furniture accessories which demonstrate the aesthetical senses of the student. This course integrates proficiency skills of students in various aspects of furniture industry including processes of furniture production, manufacturing and packing. Before beginning the design, the student shall be introduced to the creative precedent of furniture designers work and develop skills to appraise and judge their designs and produce an original design idea. The students are given a pre-defined furniture type with multi-functions, particular users' needs and limited budget constraint. Students are introduced to specialized furniture software such as BOM Browser, Solid Works and CAD pro furniture design in order to enhance their drafting and technical skills to produce scaled and detailed working drawing documentation for furniture projects. The students contribute, throughout this course, with different industrial parties and local material suppliers in order to come up with a modular, functional, smart and sustainable furniture piece/ series. Prototype model, the technical drawings, product specification document and bill of quantity will be developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments will be conducted.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES466	<a href="#"><u>Transformation Design Project</u></a>	8	IDES463	3	0	6	0
Course	1-To raise the students' awareness and aesthetical sense of how						



<b>Aims</b>	<p>transformation design can be applied using adaptive transformation design as an example to illustrate designing rehabilitated/ used/ partially demolished interior environments.</p> <ol style="list-style-type: none"><li>2-Give students an advanced understanding of the creative output of prior adaptive transformation designers' works and ability to appraise and judge these designs</li><li>3-To develop the students understanding and basic proficiency of transformation design including reuse, recycling, rehabilitation, and demolition principles as well as waste management</li><li>4-To enhance students' technical skills to produce scaled and detailed working drawing documentation for adaptive transformation projects</li><li>5-To enhance students' capability of implementing a systematic design process to respond to the typology, nomenclature, function, users' profiles and needs and limited budget constraint in order to generate innovative design ideas</li><li>6-To consolidate students' interpersonal and teamworking skills through collaboration with different industrial parties and local material suppliers</li><li>7-To enhance the students' visual and verbal communication skills through the production of the prototype model, the technical drawings, product specification document and bill of quantity</li></ol>
<b>Course Description:</b> <p>The course introduces the design process of transport adaptation project to respond to the transport typology, nomenclature, function, users' profiles and needs and limited budget constraint in order to generate innovative design ideas for adaptive transports. The selected design concept should compile with the choice of the color palette, textiles, raw and finishing materials and accessories which promote the aesthetical senses of the student. This course gives students a critical understanding of transformation design through investigation of fundamentals such as reuse, recycling, rehabilitation and demolition principles as well as waste management. Before beginning the design, the student shall be introduced to the creative prior work of adaptive transports' designers works to be able to appraise and judge their designs and produce an original design idea. The students are given a pre-defined transportation mean (marine, air, land) with multi-functions, particular users' needs and limited budget constraint. Students shall produce Computer Generated Images CGI and layouts in order to enhance their drafting and technical skills to produce scaled and detailed working drawing documentation for transport adaptation projects. The students contribute, throughout this course, with different industrial parties and local material suppliers; in order to come up with a functional, eco-friendly and recyclable transport interior environment. Prototype model, technical drawings, product specification document and bill of quantity are developed to document and present the design project. Discussion, critiques and jury, field trip and investigation of similar environments are conducted.</p>	



### Open Elective Domain

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES271	<a href="#">Interior Photography</a>	7	AED231	3	2	2	0
<b>Course Aims</b>		1- To give students' advanced practical skills of photography techniques supported by a detailed understanding of theory 2- To provide students with advanced understanding of effectively creating and selecting photographs to be posted in interior spaces. 3- To develop students understanding of the importance of the photography in the domain of interior design.					
<b>Course Description:</b>							
<p>The course introduces general principles of achieving technically accurate photographs of interior spaces, furniture and room details. The course covers equipment and camera settings, lighting techniques, and editing solutions, shooting in the interior spaces within various angles in varying lighting conditions; using natural and artificial lights, retouching interior images through using various software tools. The students learn to select perfect scenes within the interior spaces in order to present the most interesting and aesthetic photographs for the purpose of documenting the work of interior designers. To practice the challenge of photographing interior spaces, the course engages the students in real-life situation of taking photographs of different environments in order to add value and identity to the overall environment.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES272	<a href="#">Garden Design &amp; Landscape</a>	7	IDES211	3	2	2	0
<b>Course Aims</b>		1- To provide students with theoretical knowledge of the principles of landscape design including cultural, ecological, technological, spatial and environmental aspects 2- To give students a detailed understanding of the design process of gardens and landscape areas 3- To enhance students' awareness and understanding of the properties of hard and soft landscaping materials, potential emerging outdoor technologies and sustainable outdoor lighting used in garden and landscape areas					
<b>Course Description:</b>							
<p>The course introduces students to principles of landscape design including culture,</p>							



ecological, technological, spatial, environmental aspects to be considered in planning and designing the landscape areas. This course also focusses on design of attractive, and functional gardens as a very important part in built environment. Students prepare a project to study all elements of the design process, including Site surveying, Client's brief, conceptual design, creating and developing the design, selecting hard and soft landscaping materials, developing the design documents, introducing emerging outdoor technologies and presenting the created design of garden.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES273	<a href="#">3D Printing Technology</a>	7	AED231	3	2	2	0
<b>Course Aims</b>	1- To give students detailed knowledge of 3D printing approach and its terminology. 2- To provide students with detailed understanding of the advantages and limitations of 3D Printing for a range of applications 3- To give students practical knowledge and skills of the process for obtaining an interior environment /furniture piece using 3D Printing technology 4- To enhance students' awareness of technological, physical and materials issues in 3D Printing						
<b>Course Description:</b>							
This course introduces students first to theories of 3D printing definition and specific terminologies. Then it presents the used technologies, equipment, manufacturing approach and steps. Throughout this course, students will learn the types of 3D printing, its main characteristics, its advantages and limitations and the used materials to realize 3D models for Interior spaces. Applications including examples of designed interior environment / furniture piece will be realized.							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES274	<a href="#">Islamic Interiors</a>	7	IDES241	3	2	2	0
<b>Course Aims</b>	1- To develop the student's awareness of Islamic art and materials 2- To enable students to use emerging technologies to create innovative Islamic interiors. 3- To raise the students' awareness of Interiors design characteristics of the						



	<p>most famous Islamic buildings.</p> <p>4- To enable students to analyse the interior design of buildings in term of Islamic features and style.</p> <p>5- To enable students to reuse the elements of Islamic arts in an innovating way to create and innovate designs in interior design and furniture.</p>
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**Course Description:**

The course provides students with an overview of the Islamic Art principles including materials, Islamic architectural language, Islamic expressions in calligraphy, ceramics, metals, and carpets. It introduces also the significant Islamic elements and features which have an influence on the characteristics of Islamic interiors and formulation of the Islamic style. The students will be able to design and analyse Islamic spaces based on the background about the Islamic interiors and use of emerging technologies acquired during their course of study.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES471	<a href="#"><u>Design Criticism &amp; Journalism</u></a>	8	IDES212	3	2	2	0

<b>Course Aims</b>	<p>1- To provide students with advanced knowledge of criticism techniques.</p> <p>2- To enhance the students' skills on presenting, writing and communicating critiques of a wide range of design projects or artefacts.</p> <p>3- To enhance the students' skills on analysing an interior design project and providing a multi-faceted critical discussion document which encapsulates that analysis.</p>
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**Course Description:**

This course enhances students' analytical thinking and critical writing skills by developing their ability to critique articles in design journals and other written communication to gain a deeper understanding of interior architectural design. This course is delivered in both theoretical and practical ways in which the students will have knowledge which will be applied later on the criticism of existing design projects including discussions, analysis, conclusion, and presentation & writing. The student will deeply analyse the given design projects in all its aspects including the economic, social, technical, structural, environmental and professional contexts



Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES472	<a href="#">Healthcare Design</a>	8	IDES212	3	2	2	0
<b>Course Aims</b>	1- To give students detailed knowledge of design considerations to be taken into account in the design of healthcare environments including the design brief, the technical constraints and structural specifications 2- To provide students with detailed knowledge of design approaches and technological proprieties and challenges of healthcare environments 3- To enhance students' creative and technical skills in creating functional and innovative healthcare environments that fit with the guidelines and codes of such interior spaces						
<b>Course Description:</b>							
<p>The course introduces students to design briefs in which the technical constraints and structural specifications that shall be considered in the design of healthcare environments. The course examines the design approaches and technological proprieties of this complex and sensitive environment and required methods of investigation and experimental studies. An interior design project of a healthcare environment that fits with its guidelines and codes will be conducted; it will be derived from a real-life case study. The design proposals will be presented to an audience from the healthcare industry.</p>							

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES473	<a href="#">Urban Furnishing Design</a>	8	IDES311	3	2	2	0
<b>Course Aims</b>	1- To provide students with detailed specialist knowledge of the principles and practice of urban design and its space components 2- To provide students with a detailed critical understanding of design approaches and theories or urban design taking into consideration; human dimensions, functionality, durability, maintenance, technology and suitability. 3- To enhance students' creative and technical skills on creating functional and innovative urban projects including comprehensive technical details						
<b>Course Description:</b>							
<p>This course introduces an overview on urban space components including barriers, floor patterns, details, and street furniture. This introduction is followed by focus study of principles of designing the street furniture taking into consideration; human dimensions,</p>							

functionality, durability, maintenance, technology and suitability. In this course the students survey a certain urban space and design all details including furniture (seating, lighting, pathway pattern, wall texture, and barriers) and technical details as part of an urban development project.

Course Code	Course Title	NQF Level	Pre requisite	CR.	Teaching Hours		
					L	ST	Lab
IDES474	<a href="#">Special Topics in Interior Design</a>	8	IDES311	3	2	2	0
<b>Course Aims</b>	1- Provide detailed knowledge to students of various contemporary topics related to interior design professions and smart design including the 4th industrial revolution and its impact on Interior design field 2- Raise the students' awareness of the career of Interior designer with its current challenges. This includes a general exploration of professional development including job interview, portfolio and CV creation. 3- Through a study of a wide range of topics and critical discussion with students the course will explore recent trends in Interior design and its impact to create contemporary interior atmospheres						
<b>Course Description:</b>							
Advanced discussion and lectures and practices on a current specific topic in the profession of interior design.							