



Course	Course Description
AED111: Basic Design Studio I	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.
AED112: Basic Design Studio II	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
IDES211: Interior Design Studio I (materiality)	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 programing, the site constraints, and the building material proprieties. 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.
IDES212: Interior Design Studio II (structure)	Structure in Interior Workplaces 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.
IDES311: Interior Design Studio III (construction)	Construction in welcoming interiors 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 9 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.
IDES312: Interior Design Studio IV (Lighting & Acoustics)	Lighting & Acoustics in Commercial interiors 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.
IDES411: Interior Design Studio V (ventilation)	Ventilation in Public Interiors The course investigates advanced space programing, 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.
IDES412: Interior Design Graduation Project I	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.
IDES413: Interior Design Graduation Project II (Holistic)	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 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
IT102: Introduction to Computer Applications	Course Description: The course divided to theory and practical parts. Theoretical Part: 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. Practical Part: Training students to use Microsoft Word, Excel and PowerPoint Applications in intermediate level.
AED121: Engineering Mathematics	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.
IDES121: Mathematics for Interior Design Engineering	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.
AED122: Building Physics & Material Properties	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.
IDES221: Structural Systems for Interiors	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 proposals in term of materials strength, structure stability, balance and support.
IDES222: Building Physics & Components	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.
IDES323: Interior Lighting & Acoustics	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.
IDES321: MEP systems for Interiors	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 gods' transportation, lefts, escalators, mechanical veneration, 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.
IDES322: Interiors Design Technology & Construction	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.
IDES325: HVAC systems for Interiors	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.
IDES324: Codes for Interior Design Profession	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.
IDES421: Finishing Materials, Color and Texture	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 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.



IDES422: Smart & Sustainable Green Technologies	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 & 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 & security, energy efficiency, materials, thermal comfort, water usage, low-carbon emissions, health & well-being to minimize environmental impact and achieving sustainability for assigned project.
ENGL103: English for Academic Purposes I	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.
ENGL104: English for Academic Purposes II	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.
ENGL202: English Writing for Communication	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.
GS111: Arabic Language Skills	دراسة أساسيات اللغة العربية صياغة وتركيبا ومعجما ودلالة وإملاء، ومعالجة أساليبها قراءة وتذوقا ونقدا، وبيان خصائصها الجمالية وقيمها الدلالية والتعبيرية من خلال نصوص تتناول الأجناس الأدبية شعرا ونثرا
AED131: Engineering Drawings & Design Communications	This course provides students with fundamental knowledge and skills of Engineering and technical drawings such as different types of projections, drawing 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.
AED231: Drafting And Designing With Digital Media	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.
AED232: Rendering Techniques and Animation	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 angels, perspective correction, and finally, scene composition. Image recurring and rendering applications are also introduced.
AED331: BIM for Design and Construction drawing	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.
IDES331: BIM for Services and Interior Detailing	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.
IDES431: Virtual simulation of Spatial Design	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 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.
GS133: History of Bahrain	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 الى بيان أهمية الدولة المعاصرة وإنجازاتها.
LAW106: Human Rights	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
IDES241: History and Theories of Art and Design	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.
IDES242: Modern History of Architecture, Art, & Design	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.

IDES341: Global Contemporary Interior Architecture	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.
GS102: Creative Thinking	ينقسم هذا المقرر الى ثلاثة اقسام: القسم الاول: مدخل للتفكير الابداعي, في هذا القسم يتعرف الطالب على الخلفية الفكرية والجوانب النظرية للتفكير الابداعي وهي: 1/ تحليل لمفهوم التفكير الابداعي 2/ دراسة لمكونات الابداع ومعيقاته القسم الثاني: مهارات التفكير الابداعي, وفي هذا القسم يتعرف الطالب على ملكات الابداع الفكرية, وذلك يهدف تدريجيا وتعلم توظيفها في مختلف جوانب الحياة وهي: مهارة الطلاقة, مهارة المرونة, مهارة الاصاله, مهارة الميل الى التفصيلات, مهارة الحساسية للمشكلات, مهارة الاستنتاج والمنطق, مهارة المقارنة والمباينة, مهارة التنبؤ, مهارة مواصلة الاتجاه, مهارة الخيال البصري, مهارة التركيب, ومهارة تجديد العناوين. القسم الثالث: ادوات التفكير الابداعي, وهي ادوات تم تصميمها لتسهيل عمليات التفكير الابداعي ومنها: اداة الملازمة الجبرية, اداة قائمة التصنيفات, اداة معالجة الافكار, اداة اعتبار جميع العوامل, اداة العمومية والشمولية, اداة التجزئة والتقسيم, اداة القوة الموازنة, اداة سلم التجريد, اداة العصف الذهني, اداة سكامير, اداة المصفوفة المورفولوجية, اداة الحجر المتدرج, اداة معارضة المفهوم, اداة القبعات الست للتفكير
AED251: Design Research Methods	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.
IDES251: Training (Internship I) (in Summer semester)	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 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).
IDES351: Training (Internship II) (in Summer semester)	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.
IDES451: Design Profession Development & Portfolio	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.
IDES452: Professional Practice & Management	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.
IDES361: Scenic Design	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
IDES362: Design for TV Studio Set	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.
IDES363: Furniture Structure, material, & Detailing	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.
IDES364: Manufacturing & Packaging process	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.
IDES365: Recycling & Conservation Methods	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
IDES366: Structure & Materials of Transportation means	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.
IDES461: Design for Cinema Set	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.
IDES462: Manufacturing & Packaging process	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.
IDES463: Interior Demolition and Transformation	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.
IDES464: Event Planning Project	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.
IDES465: Modular Furniture Project	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.
IDES466: Transformation Design Project	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.
IDES271: Interior Photography	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.
IDES272: Garden Design & Landscape	The course introduces students to principles of landscape design including culture, 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.
IDES273: 3D Printing Technology	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.
IDES274: Islamic Interiors	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.
IDES471: Design Criticism & Journalism	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
IDES472: Healthcare Design	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.
IDES473: Urban Furnishing Design	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, 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.
IDES474: Special Topics in Interior Design	Advanced discussion and lectures and practices on a current specific topic in the profession of interior design.