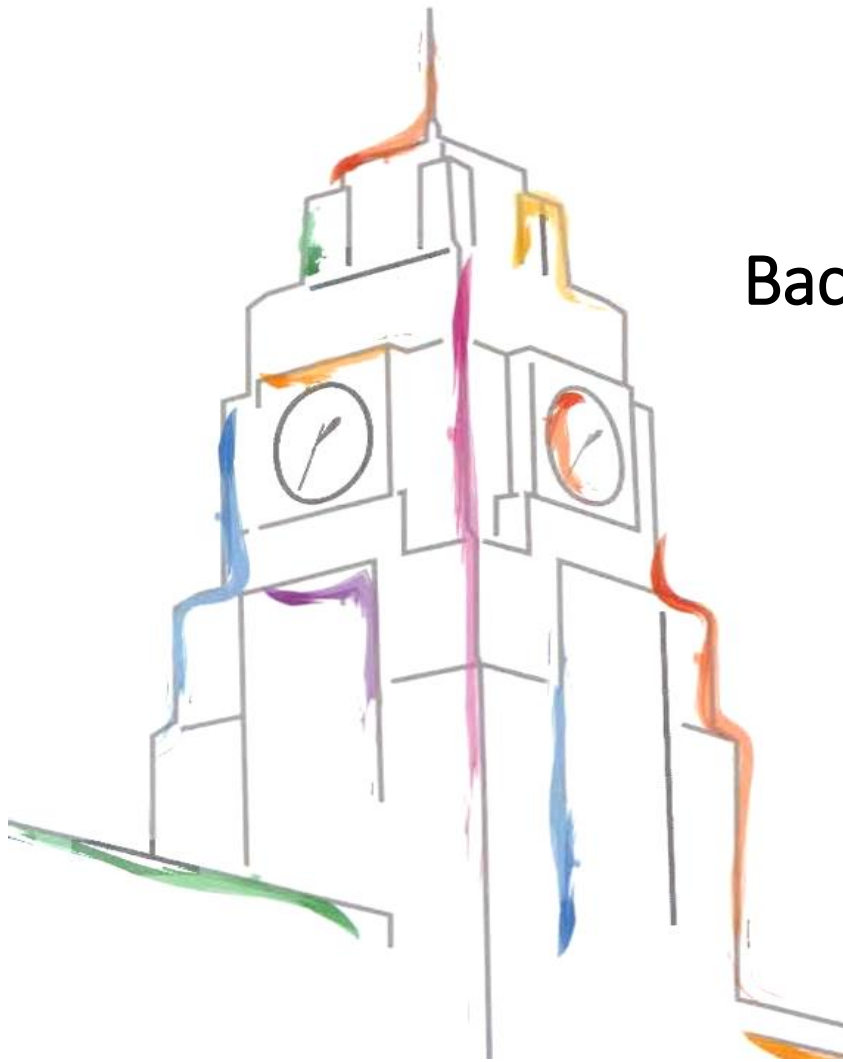ASU

جامعة العلوم التطبيقية
APPLIED SCIENCE UNIVERSITY

Bachelor in Interior Design

Course Description

Programme Compulsory Courses

IND1092 - Principles of Architectural Drawing

This course builds on the familiarity between the students and architectural drawing methods and applications. The student will be taught and trained to use the engineering tools, symbols and engineering lines, and drawing of geometric projections of objects and forms (orthographic and paraline projections) based on a common architectural language that communicates with other relevant specializations. (Prerequisite-None)

IND1071 - Design and Environment Behavior

The course deals with the relationships between the body, the objects, the culture, the events and the environment in a habitable world within the built environment, and it is composed of both aesthetic and practical requirements (user needs and their behavior, human factors, context, building systems, etc.). (Prerequisite: ADE1110)

IND1093 - Presentation Techniques

The course focuses on principles of perspective drawing, and representation of interior spaces with the help of perspective techniques (perspective at a one vanishing point/ two vanishing points). As well as the conceptual drawings and rendering techniques, and professional graphics for professional presentations. (Prerequisite: IND1092)

IND1094 - Computer-Aided Design (CAD) I

This course explores the architectural language and the graphic standards of 2D designs as the basis of three-dimensional (3D) drawings, conducting to the development of drawing skills that lead to understanding the relationship between two dimensional (2D) and three dimensional design (3D), design schemes, as well as enhancing the ability to communicate visually and graphically. (Prerequisite: IND1092)

IND 2081 - Interior Design Studio 1

This course represents the introduction to basic interior design principles and an introduction to research as a tool for understanding programming and design. Lectures, applications and case study methodology will be used to investigate different design strategies and to show the relationship of history and human behavior in the context of the habitable environment. This course provides students with methodologies, design processes, use of color, anthropometric and ergonomics and design elements related to interior design. (Prerequisite: IND1071)

IND 2131 - Interior Materials & Finishes

This course explores the features, characteristics and applications of textiles and other materials used in construction, furnishings, surfaces and finishes in the built environment. The course also provides students with an opportunity to learn how to choose the right materials to meet specific criteria. (Prerequisite: IND1094)

IND2095 - Computer-Aided Design (CAD) II

This course promotes the building of student skills in the creation and study of computer aided 3D drawings after completing "Computer-Aided Design (CAD) I" course. So that the student can form and manipulate three-dimensional (3D) shapes and succeed in producing environments that emulate reality to a large extent. (Prerequisite: IND1094)

IND2112 - Interior Design Studio 2

This course deals with the organization, planning and design of the internal spaces of the residential activities, including (space and functional analysis requirements, movement and spatial organization requirements, motor regulation, internal surface treatment and human dimensions), with a focus on the space and privacy concepts, in order to provide students with an internal design project for residential space and produce it in an appropriate manner. (Prerequisite: IND2081)

IND2151 - Interior Structures & Constructions

The course deals with the relationship between the structural system of the building with internal constructions and the effects thereof, and the methods of construction and internal structures, while enabling students to understand the regulations, components and accepted standards to create an integrated and comprehensive set of internal construction documents. (Prerequisite: IND2131)

IND2121 - Light & Color in Interior Environments

The course deals with the basics of interior lighting design and its relationship to color and its impact in supporting health, safety, comfort and human performance, and identify light sources and systems, measurement and calculation of lighting. Students learn to analyze the spatial requirements of light, identify appropriate systems, calculate the appropriate lighting level, and draw up reflected ceiling plans and identify their symbols and keys. (Prerequisite: IND2081)

IND3113 - Interior Design Studio 3

This course discusses and applies the design philosophies, theories and creative design strategies at the intermediate level (targeting shops/ and hospitality). It also focuses on: research, surveying, analysis, design processes, spatial and functional analysis, branding, construction technology, design elements and principles, human factors, creative problem solving, lighting requirements, internal component selection and preparing a presentation. (Prerequisite: IND2112)

IND3141 - Building Systems and Codes

In this course, students will be introduced to the basic elements of the building systems (COD) and its systems, including mechanical systems (ventilation and air conditioning), health service systems (sanitation, nutrition and health systems), fire safety systems, data / voice systems), supervision and safety. (Prerequisite: IND2151)

IND3117 - Furniture Design

This course focuses on issues related to furniture design, including construction (composition and production), methods, function, sustainability, technical aspects and costs associated with furniture. The course also allows students to develop and model their designs and transfer them to construction. Those skills will be gained through the study of human structure and search for suitable materials and construction techniques. (Prerequisite: IND2112)

IND3103 - History of Interior Design

The course covers the study of the development of internal environments, as well as the most prominent theories and movements related to the interior design which emerged during the twentieth century. It also teaches the study of social, economic, technological and anthropological considerations that influenced the design thought across the different historical stages. (Prerequisite: ADE2102)

IND3114 - Interior Design Studio 4

This studio focuses on contemporary issues related to business/ office and institutional styles, construction technology, and sustainable design. Design and technological issues are addressed through: understanding of office culture, modeling industry, construction systems, solar considerations, internal environmental quality, HVAC systems, space planning, material selection and finishes, lighting design, integration of furniture and equipment, and code requirements. The course emphasizes solutions based on comprehensive and sustainable design thinking, organizing complex spatial responses, and understanding that design is a structure in nature. (Prerequisite: IND3113)

IND3142 - Sustainability in Design

This course explores the sustainable design and the fundamentals of the Green Building Initiative. It also exposes a review of the concepts, strategies and classification systems adopted by the LEED Leadership Program in the United States. Students will complete this course with a basic understanding of the objectives, concepts and terminology of all LEED categories, as well as green building practices, sustainable products, and the importance of synergies. (Prerequisite: IND3113)

IND3051- Building Information Modeling (BIM) I

The course is an introduction to BIM (Building Information Modeling), a multi-dimensional integrated database, it covers the drawings, building scenes, calculations, quantities, detection of conflicts before they occur, energy efficiency analysis, structural analysis and construction scheduling which automatically derived from BIM. The course addresses the implications of this advanced technology and covers the basic tools for the implementation of the BIM. (Prerequisite: IND2151)

IND3061- Ethics & Practice of the Profession

The course includes an introduction to the ethics and responsibilities of the interior designer. It presents topics such as the role of companies, technology transfer, small business management, marketing and promotion, scope of services, job description, contracts, ethics and auditing. The course includes studying project management contract documents from an ethical standpoint. (Prerequisite: IND3141)

IND4115 - Interior Design Studio 5

This advanced, comprehensive studio emphasizes the solution of various design issues in a multi-functional building project and in collaboration with a design team. It extends from the initial design to the development stage of the design and then the constructional documents, it is based on the knowledge acquired in previous courses (design, history, theories, and technology).

Students gather their research and design ideas and apply their knowledge in a comprehensive final presentation. (Prerequisite: IND3114 + IND2151)

IND4071 – Programming and Research

This is the preparation of the graduation project report (chosen by the student in coordination with the supervisor and approval of the department council). It includes the collection of all information and data related to the project, including theoretical studies related to the project subject matter, analysis of user characteristics and needs, development of the project program and functional relations, and identification of conceptual trends for design and discussion of spatial characteristics, color, materials and surface treatments suitable for the project. The report is presented for discussion by a jury. (Prerequisite: IND3114)

IND4062 - Specification and Estimation

This course focuses on studying the basics of technical specifications and estimates the cost of interior design projects, including the quantities of construction materials, wages, supervision and others. (Prerequisite: IND3051)

IND4040 - Internship (BID)

This course provides an opportunity for students to gain experience in the workplace and translate what they have learned in the classroom into a practical reality. It focuses on enhancing students' practical and transformational skills, where more knowledge and skills are acquired for professional development and to meet future business requirements. This course allows them to work well in a culturally diverse work environment. In addition, it helps to expose students' skills and benefits gained from the training experience in the fields of study and life. (Prerequisite: 90 Credit Hours + IND3113)

IND4116 - Graduation Project

The course provides an opportunity for the student to express himself and his vision as a designer, and combines theory and skills gained during the program. During this course, the student will submit an integrated internal design based on research, combination and development of a predetermined graduation project within the graduation project course/ programming (IND 4071). The project will be presented and discussed in front of a specialized academic panel including an external expert. (Prerequisite IND4115 + IND4071)

IND4053 - Design Collaboration

This course encourages students to engage in collaborative activities and design, and to engage in different cognitive approaches for analysis and investigation issues that affect the world in which we live. It is designed to deepen students critical and creative understanding of the subject matter by placing it in a broader context. (Prerequisite IND3114)

Programme Electives Courses

IND4041- Interior Design Advanced Internship "On-Site"

This is an advanced internship that focuses on advanced issues in internal design practice learned through the working experience with professionals. It requires the student to have completed the "Internship" course (IND4040). (Prerequisite: IND4040)

IND4042 - Interior Design Study Tours

The course provides an opportunity to introduce students to various cultural and artistic sites through out-of-campus supervision, this will broaden their vision of the design profession. The significant lectures and tours are designed for interior design, architecture, furniture and associated arts. (Prerequisite: IND3103)

IND4104 - Critical Issues in Design

The course provides students with the opportunity to study a wide range of ideas, cultures and current issues related to the built environment. It also provides an opportunity for in-depth exploration of personal interest, a forum for brainstorming and research. It provides an excellent opportunity to synthesize a number of approaches to deal with the design problem. (Prerequisite: IND3103)

IND1099 — Advanced Perspective

This course focuses on the applications of perspective drawing, sketch of interior spaces with the help of engineering perspective techniques (perspective at a single vanishing point/ two points/and three points), as well as the study of shade and shadow projections in perspective. (Prerequisite: IND1092)

IND3098 - Interior Design Animation

The course introduces digital animation techniques for interior spaces, moving cameras. The course revolves around real-world projects, workshops, practical tips and tricks used in 3D animation techniques. The student also learns time saving techniques, testing some tips for production at maximum speed and highest efficiency in the animation processes of interior designs. The student is required to pass the course "IND2096". (Prerequisite: IND2095)

IND2097 - 3D Printing & 3D Scanner

The course provides the needed knowledge and skill to produce and print 3D objects, as well as generate and prepare data for that. It focuses on the use of two professional technologies; 3D Printing, 3D Scanner and related software which enables students to utilize these technologies in their future projects. (Prerequisite: IND2095)

IND2096 - Computer-Aided Design (CAD) III

This course enhances student skills in the creation and study of computer aided 3D drawings after completing "Computer-Aided Design (CAD) II" course, allowing students to build complex scenes, work in complex contexts, produce night and day scenes, and benefit from dedicated software for visualization and simulation of reality. (Prerequisite: IND2095)

IND4052 - Building Information Modeling (BIM) II

The course builds on the principles and implementation principles learned in (BIM I), where the advanced BIM tools and applications are used in various fields such as joint cooperation in the project, lighting simulation, quantities calculation and detection of conflicts or interference. (Prerequisite: IND3051)

IND3122 - Lighting Design

This course focuses on the design and analysis of lighting using software, by introducing students to a range of digital lighting simulation techniques. This course will expose students to theoretical aspects of lighting analysis and design, as well as the tools used to enhance the integration of lighting analysis in the architectural or interior design process. Students will apply these guidelines in a design project. (Prerequisite: IND 2121)

IND 3132 - Smart Material

The course deals with in-depth studies in the fields of raw materials and materials used in internal constructions, with a focus on studies and research related to smart and environmentally-friendly materials, and their methods for installation and use. (Prerequisite: IND2151)

IND3152 - Interior Structures & Constructions 2

The course deals with studying the existing and new technologies and materials in the interior design world, as well as the study of the effects of construction laws and manufacturing specifications for selecting both structural and nonstructural elements. This reflects students' achievement of drawings and structural details and develops understanding the relationship between drawings and specifications with a focus on residential and commercial projects. (Prerequisite: IND2151)

IND4111 - Hospitality Design

This course is concerned with the study of hospitality projects, including analysis of requirements, project programming, space planning, selection of furniture and appropriate finishes, through the anthropometric utilizing, and taking into account relevant regulations and standards. (Prerequisite: IND 3113)

IND3115 - Exhibition Design

This course deals with the design of the exhibition pavilion at local and international exhibitions, with a focus on the impact of the context in which this type of activity takes place. The student will have to provide an appropriate lighting scheme and specifications along with utilizing the color theories and taking into account the relevant standards. (Prerequisite: IND 3113)

IND3116 - Kitchen and Bath Design

This course focuses on requirements, standards, code, symbols, materials, finishes, and constructions related to bathroom and kitchen designs. In addition to connecting the requirements of plumbing and installation of equipment and electrical equipment with the design of these events. (Prerequisite: IND3141)

IND2103 - Islamic Built Environment

This course sheds more light on the study of art, architecture, interior design and its development during the various Islamic eras. It analyzes the cultural and social contexts that have influenced the character of this urbanization and the manner in which the designers respond to those conditions. (Prerequisite: ADE2102)

IND4043 - Bahrain's Experience in Interior Design

This course explores the reality and trends of interior design in the local environment by conducting a field study of the reality of interior design in the region. This study includes collecting and documenting all necessary information and data and analyzing it with a view to extracting the local experience in interior design and exploring the future of interior design. (Prerequisite: IND3103)

IND4162 - Psychology & Sociology Design

The student explores the psychological and social impact of design and how design can be directed to meet human needs and aspirations, and the role played by the designer in influencing the users' social behavior, and finally its reflection in the development of design solutions. (Prerequisite: IND2081)

IND3118 - Interior Plantations & Courtyard Design

The objectives of this course are to introduce the most important designs, functional and visual aspects of plants and internal structures. In addition to that, it also introduces the internal plantations (in terms of varieties, species, use and care), and selecting suitable furnishing and finishing materials. Students will have to apply this in a specific project. (Prerequisite IND3113)

IND3154 - Rehabilitation of Historic Buildings

This course deals with the theoretical bases and concepts of the rehabilitation and use of historical and heritage buildings. This course provides the student with the suitable ground to choose appropriate rehabilitation policies to bring back the project to its original purpose for which it was developed, or for the purpose of converting it to serve another purpose. (Prerequisite: IND3142)

IND3000 - Special Topics in Design

The course deals in-depth with internal design issues. It may include new issues in the field of interior design, or issues proposed by the faculty members. (Prerequisite: Dept. Approval)

IND 2098- Digital Rendering of Architectural Drawings

This course helps the student to have the ability to use features of dedicated software using Bitmap technology for the processing of graphics and images and mixing them, and in the operations of displaying and printing various graphics and designs. (Prerequisite: IND1094)