



University/Academy: Arab Academy for Science, Technology & Maritime Transport
Faculty/Institute: College of Engineering & Technology
Program: B.Sc. Architectural Engineering and Environmental Design

Form no. (12): Course Specification

1- Course Data

Course Code: AR 424	Course Title: Functional Requirements in Interior Environment	Academic Year/Level: 4th year / 7th semester
Specialization: Architecture	No. of Instructional Units Credit 2 Lecture 1 Tutorial 3	Prerequisite None

2- Course Aim

This course is Methods for Design of the interior spaces. The purpose of interior design is the functional improvement, aesthetic enrichment, and psychological enhancement of interior spaces. The purpose of this course is to study of the relationship between users' activity, furnishing requirements and design.

The course aims to:

- Enhance the student's practical skills of shaping contemporary interior space in private and public buildings. Before commencing any interior space we should ask ourselves some questions and then try to find the answers ...The questions could be categorized thinking process of design. This questions like (What? Who? Where? Why? How?) And to know sources of information for space requirements in Interior.

3- Intended Learning Outcomes

a- Knowledge and Understanding	Through knowledge and understanding, students will be able to: <ul style="list-style-type: none"> • Classify The information about the users, space and equipment needs, relationships, site and environment, services, • Match The functional relationships, circulation patterns, space and area needs for different functions, furnishing and equipment arrangement in different spaces, etc. • An interior architect makes his initial design image which is based on a complete study of the above-mentioned factors. In other words we can say that a design concept is the rough outline of design which needs lot of refinements and developments later on.
b- Intellectual Skills	Through intellectual skills, students will be able to: <ul style="list-style-type: none"> • Innovate through a systematic process of interior design • Plan the interior spaces, find alternatives and choose the most creative and comfortable solutions. • Students are develops their final design concept into a more matured and grown up form. Student will make plans, elevations sections perspectives, models., investigate and develop the concept of three- dimensional objects along with the materials, colors and lighting techniques. • Suggest designs for interior spaces that integrate social, aesthetic and technical requirements.
c- Professional Skills	Through professional and practical skills, students will be able to: <ul style="list-style-type: none"> • Produce graphical presentation, through computer or freehand presentation. • Prepare and present arguments and illustrative materials in a variety of written, graphic and oral formats and with a high level of competence. • Prepare interior design drawings and presentation.

d- General Skills	<p>Through general and transferable skills, students will be able to:</p> <ul style="list-style-type: none"> • Work in an interdisciplinary environment and elaborating with others. • Students might need help of some architecture designer or landscape architect to do specialized jobs (if the project is big one.) • Listen to and evaluate the opinions and values of others. • Discuss and present designs of different parameters effectively • Carry out self-learning sessions, as well as manage his time and meet deadlines on an individual level. • Appreciate and acquire lifelong learning.
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4- Course Content

Week No.1	Project 1 Introduction: natural by (Allah) and man- made design.
Week No.2	Building interior design and process of providing all information for constricting of building that will meet its owners requirements and also satisfy public health, welfare and safety requirements
Week No.3	Definition of interior design: plan preliminary sketches, arrangement of parts.
Week No.4	Interior space , Project Design development(What a concept is?)
Week No.5	Interior space, Project Design development(Types of design concepts)
Week No.6	The Principles of interior design (proportion and scale –Balance)
Week No.7	Continuation of the previous lecture and evaluation.
Week No.8	The Principles of interior design (Rhythm-Emphasis –Unity)
Week No.9	Design components(site and location-Users-programming)
Week No.10	Materials and colors (1). Design development: Students are asked to present a conceptual design in response to the project’s collected data and according to the chosen theme of the project.-
Week No.11	Materials and colors (2). Design Development: Students are asked to express their ideas through furniture arrangements and 3D drawings in correspondence with the materials, colors and lighting plan that’s to be used in the project.
Week No.12	Project Design Developed
Week No.13	Mechanical equipments Pre-final submission of the 2nd project
Week No.14	Aesthetic values in interior design Final Presentation and Submission: Students are asked to submit their projects for evaluation.
Week No.15	Revision.

5- Teaching and Learning Methods

<p>The course comprises a combination of lectures, information collection, student independent study, and tutorials that provide support and advice to the students on their project work.</p> <p>Lectures impart practical knowledge and introduce parameters within which the projects should be developed.</p> <p>Independent study: Students are encouraged to develop an ability to exercise initiative, original thought and independence as solutions are developed and designed for complex interior problems.</p> <p>Tutorials: provision of continuous support to ensure the progress of individual students against the requirement to produce work to a specific timetable.</p>

6-Teaching and Learning Methods for Students with Special Needs

- Consulting with lecturer during office hours.
- Consulting with teaching assistant during office hours.
- Private sessions for redelivering the lecture contents.
- For handicapped accessibility, please refer to program specification.

7- Student Assessment

Students must present: Two projects per semester - students must present at least 3 sketches for each project under the supervision of the tutors - a two-day project per semester and a three-hour exam.

Students prepare their portfolios at the final jury which will demonstrate the learning outcomes throughout the academic semester and a selection of previous phases of the projects in an appropriate form of documentation and presentation. Methods of documentation may include: drawings; photographs; multi-media material; quantitative & qualitative data; 3D models or prototypes; web-based material. All work should be recorded digitally and presented to a standard suitable for assessment purposes.

Asses No.	Procedures used		Start Week No.	Subm. Week No.	Weighting of Asses.
	Type	To assess			
1	Assignment	Knowledge and understanding.	1	6	10%
2	Portfolio exam.	Knowledge and practical skills.		7	5%
3	Project	All skills.		8	15%
4	Assignment	Knowledge and understanding.	9	12	15%
5	Project	All skills.		15	20%
6	Portfolio exam.	All skills.		15	5%
7	Drawing exam.	Knowledge and intellectual skills.	16	30%	
Total					100%

8- List of References:

a- Course Notes	Notes are handed out on a weekly basis.
b- Required Books (Textbooks)	N/A
c- Recommended Books	<ul style="list-style-type: none"> • BARR, Vilma Francis, <i>Interior Design Illustrated</i>, John Wiley & Sons, N.Y., 1987. • BURDEN Ernest, <i>Entourage: A Tracing File for Architecture and Interior Design Drawing</i>, N.Y., Mcgraw Hill, 3rd Ed, 1996. • DONG Wei, <i>Color Rendering: A Guide for Interior Designers and Architects Concept, Exploration and Process</i>, Mcgraw Hill, N.Y., 1997. • MASSEY Anne, <i>Interior Design of the 20th Century</i>, Thames & Hudson, London, 1990. • MILLER Mary, <i>Color for Interior Architecture</i>, Wiley, N.Y., 1997. • PILE John F, <i>Interior Design</i>. 2nd Ed., Harry N. Abrams Inc. Pub., N.Y., 1995. • TAYLOR Lesley, <i>Interior Design Illustrated</i>, London, North Holand, 1998. • VERNON Mays, <i>Offices + Workspaces</i>, Rockport Publisher, Canada, 1998.
d- Periodicals, Web Sites, etc.	N/A