

Course Description

Course Title $[A - B - C]$ Course #:Prereq.:A: Theoretical hrs B: Practical hrs C: Credit hrsB: Practical hrs C: Credit hrsPrereq.: 0905103Architectural Drawing[1 - 6 - 3]Course #:0908000Prereq.: 0905103This course aims to focus on the basics and tools of drawing used in the field of architecture through a series of manual exercises that develop the abilities and skills of students through increasing their ability to imagine the architectural elements, drawing architectural plans, elevations, subscriptions, through increasing their ability to imagine the architectural for Architectural Engineering $[0 - 0 - 3]$ Course #:0908400Prereq.:115The student will explore the practical applications related to using and inks.Course #:0908101Prereq.:115The student will explore the practical applications related to using a comprehensive or professionalism and legislation through training in engineering offices, or contracting or one or				
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Freehand Sketching (2) $[0-3-1]$ Course #:0908112Prereq::0908111				
This course aims to study the projection of shades and shadows on different architectural compositions, and				
presenting them in 2D and 3D composition, using pencils, inks, markers and watercolours.[Basic Design (1) $[1-6-3]$ Course #:0908122Prereq.:0905103				
This course aims to introduce the design principles and basic design elements, it develops the student's ideas and skills to design				
documentation and the study of architectural formations.				
Basic Design (2)[1 – 6 – 3] Course #:0908123 Prereq.:0908122				
The course aims to develop the design skills, form articulations, shape composition and the interaction between				
(form, space, enclosure, and spatial relationships), focusing on the third dimension in the composition. It also				
discusses how to transforms the space, shape, and order into a functional meaning.				
History and Theory of Architecture (1) $[3 - 0 - 3]$ Course #:0908211Prereq.:				
This course identifies the ancient civilizations Such as the Nile valley, the Mesopotamia, and the classical eras of				
Greeks and Romans, with indication to the various influences that affected the development of architectural				
thought and construction systems.				
History and Theory of Architecture (2) $[3-0-3]$ Course #:0908212Prereq.: 0908211This source discusses the double ment of architecture during the double of Christianity through the Depending				
This course discusses the development of architecture during the dawn of Christianity through the Byzantine period, the Middle Ages, the Renaissance, the Baroque and the Rococo with focusing on the main theoretical				
approaches and various influences that affected the development of architectural thought and construction				
systems.				



Course Description (9)

Computer Drawing $(1)[1-6-3]$	Course #:0908226	Prereq.:0908112		
This course aims to introduce the use of computers in 2D architectural drawing. It begins with the theoretical explanation to the rules of basic drawing by identifying all the menus and commands that help in the process of drawing, editing and saving files by using different architectural programs.				
Computer Drawing $(2)[1-6-3]$	Course #:0908227	Prereq.: 0908226		
The course aims at using the computer to prepare 3D drawings	and models (solid	and surface), processing		
materials, preparing objects and surfaces, in addition to the prepar	ation of lighting, bacl	kgrounds and others.		
Architectural Design $(1)[1-9-4]$	Course #:0908223	Prereq.:0908123		
This course aims at clarifying the concept of architectural design, it		-		
with focusing on the functional side of the design. This could be		• .		
structures on flat site, with a floor area that does not exceed 150	m ² . The student de	signs two projects during		
the semester				
Architectural Design $(2)[1-9-4]$	Course #:0908224	*		
This course aims at developing the student's ability to understar	-			
with the architectural idea. The student will be able to design a		-		
programs on a shallow slope site, with a floor area that varies from	n 250 m² to 350 m².	The student designs two		
projects during the semester	C	Duran a. (0008000		
Architectural Drawing and Presentation $[1 - 6 - 3]$		Prereq.:0908000		
This course develops the student's skills in presenting architectura of perspective drawings - one and two vanishing points- through a s				
the exteriors of buildings, studying shade and shadow and implement		-		
graphic drawing tools.	shing them on plans	and 5D masses using the		
Structural Mechanics $[3 - 0 - 3]$	Course #:0908261	Prereq.:0300122		
Introduction to Statics. Force vectors and force system resultants. Types of loads and structures. Load distribution				
and structural stability. Reaction of a rigid body, and analysis of beams, frames, and trusses. Drawing shear force				
and bending moment diagram of beams. Calculating the centroid		-		
Introduction to mechanics of deformable bodies. Concepts of stress				
Building Construction(1) $[2-3-3]$	Course #:0908262	-		
This course aims at understanding the construction works stages that include site preparation, soil testing, and				
excavation works. It studies the types of forces that affect the structural elements, the building materials (stone,				
brick, concrete, wood and metal), the types of foundations, the structural systems, and the structural elements (columns, beams, roofing, flooring, and walls).				
Building Construction $(2)[2-3-3]$	Course #:0908263	Prereq.:0908262		
a (<i>j</i> -				
This course aims at studying the finishing techniques for ceilings, floors, and walls for kitchens, bathrooms, and other interior space. It focuses on the wood works, metal works, paintings, and insulation materials (damp				
proofing, heating, sound).	is, paintings, and in	summer materials (aump		
Islamic Architecture $[3 - 0 - 3]$	Course #:0908312	Prereq.:0908212		
The course focuses on the development of the Islamic architecture s		1		
days and shows its implementation in Architecture of houses, religious buildings, and public buildings. It also				
studies the characteristics of the Islamic architecture and how it could be reused in contemporary word.				



Course Description (9)

	eouise D	escription (5)		
Environmental Control systems $[3 - 0 - 3]$	Course #:0908371	Prereq.:0908224		
This course studies various climate elements as a fundamental influence on the design process to reach the thermal				
balance of buildings and human beings. It discusses how to determ	1			
buildings, design the sun-breakers, and study the wind directions		uildings, besides studying		
the traditional environmental solutions in the different climatic region	ons.			
Architectural Design $(3)[1-9-4]$	Course #:0908321			
This course aims at designing a single, public building with specific	c nature and moderat	e complexity, with a floor		
area that varies from 250 m ² to 350 m ² , to be erected on shallow				
internal spatial arrangements, human needs, functional relation	1 1	ological and economical		
aspects that influencing the architectural design should be considered		D 0000001		
Architectural Design $(4)[1-9-4]$	Course #:0908322	4		
The course aims to focus on the exploration of architectural s		-		
architectural concept based on analytical conclusions at different		_		
project consisting of a building or a group of buildings, with a floo				
will also design the outdoor spaces, plazas, paths and all the	required services. A	pplying the principles of		
environmental design and landscape architecture is essential.				
Theories of Contemporary Architecture $[3 - 0 - 3]$	Course #:0908324			
This course discusses the development of the contemporary archited				
revolution to the current era. It emphasizes on the social, economic and political changes, and their effects on the				
trends of the modern architecture and their most important character		D		
Landscape Architecture $[3 - 0 - 3]$	Course #:0908352	1		
This course explains the main principles of landscape architecture to assist in crocomponents, its philosophies, concepts, and main elements (soft and hard). The				
proper materials that are used locally and internationally.	le course also explores tr	ie design s procedures and the		
Working Drawings $[1-6-3]$	Course #:0908326	Prereq.:0908263		
This course prepares the student to submit a complete package of construction drawings for an architectural				
project according to professional technical standards and official bu				
Technical equipment of building $[3 - 0 - 3]$	Course #:0908372	Prereq.:0908263		
The course aims to study the equipment of elevators, escalators, tra	affic corridors and fir	re fighting systems, and to		
discuss the environmental studies such as air and water purification	ı, solar energy exploit	tation, sewage analysis, as		
well as the study of sewage, cold and hot water at buildings.				
Architectural Design (5) $[1-9-4]$		Prereq.:0908322		
This course aims at finding comprehensive architectural solutions				
area that varies from 3000m ² to 5000m ² , studying its main co	•	e		
integrating them with the surrounding urban environment. Apply		v standards and meet the		
needs of users by studying the visual, functional, social and econom		D 0000401		
Architectural Design (6) $[1 - 9 - 4]$	Course #:0908422	A		
The course aims at applying the theories of urban design, and un studying the social according and anyironmental impacts of the	-			
studying the social, economic and environmental impacts of the study area. The course consists of one main				
project, where the student will study and analyze the existing condition of a specific urban area and explore the most important urban problems, and then provide a range of solutions and treatments to reach an identified urban				
environment.	ons and treatments to			



Course Description (9)

Illumination and Acoustics [3 - 0 - 3]

Course #:0908423 Prereq.:0908372

This course studies the physical characteristics of the light and its main principles, the light calculations, natural and artificial lighting design principles and its implementation in architecture. It provides full understanding of the physical characteristics of acoustics and its main principles. Study acoustics resources inside the buildings, measure acoustics levels, acoustics design principles in building, acoustics control and isolation. Introduce the student to measurement tools and materials that are used in the practical implementations for the illumination and acoustics fields of architecture.

Contracts, Specifications and Quantity calculations[3 - 0 - 3]Course #:0908433 Prereq.:0908326

This course aims to study engineering contracts in general and FIDIC and detailed description of all architectural works items in the construction of buildings, and study of the technical specifications for the implementation of buildings in accordance with the specifications and conditions in Jordan and the preparation of technical specifications and the calculation of quantities for a project with a small area.

Planning and Urban Design[3 - 0 - 3]

Course #:0908443 Prereq.:0908322

This course discusses the urban planning, its theories, objectives, levels, regulations, and types. It also focuses on the environmental, social and economic factors that affecting the distribution of the public facilities. Course #:0908511 Prereq.:0908322

Architectural Criticism and Analysis [3 - 0 - 3]

This course discusses the concept and history of architectural criticism. It introduces the significance of architectural analysis through analyzing case studies of architectural critics who influence contemporary architectural trends in the Arab and Western worlds. In addition, it studies principles and methods of architecture criticism, and provide training for the student to select architectural projects; local, regional and international, then analyzing them using selected phrases of criticism.

Building Legislation and Professional Practice [3 - 0 - 3] Course #:0908531 Prereq.:0908433

The course studies the most important legislations and laws that affect the architectural design. It consists of two main sections: The first section focuses on the Jordanian Buildings Legislation and Codes and its implementations throughout design stages. It discusses the specific regulations that are implemented in Amman Master plan of 2025, and in special projects such as Abdali development. The second section focuses on the professional architectural practices and the ethics to be demonstrated in the practice of engineering work, and how to obtain professional accreditation through the Jordanian Engineers Association

Graduation Project (1)[2-0-2]

Course #:0908581 Prereq.:0908422

The course aims at creating the data base that the student needs to prepare the final report for the graduation project. This could be achieved by adopting the scientific method and process in the architectural thinking ,and exploring the relevant case studies that assist the student to prepare the project program. The student should submit three proposals and the best alternative will be chosen

Graduation Project (2)[1-9-4]

Course #:0908582 | Prereq.:0908581

This course aims at developing the design concept that was reached during the Graduation Project (1), then design an integrated architectural project based on the outcomes of the study and analysis. The student will present all the architectural drawings that express the project and a model with a suitable scale

Surveying [3 - 0 - 3]

Course #:0902209 Prereq.:0300102

Basic Definitions in Surveying, Recording field data and notes, Error types and Sources. Units, Metric and English system. Plotting and Map Scale and types. Linear Measurements, Electronic Distance Measuring Instruments. Leveling, Datum, Bench Marks. Directions, Reduced Bearing, Geographic or True North, Azimuth. Theodolite, Measuring Horizontal and Vertical Angles. Contour Lines. Coordinates calculations and Traverses. Area and Volumes and earth work calculations.

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Course Description (9)

Surveying $lab[0-3-1]$	Course #:0902210 Prereq.:0902209			
Measurement of distance by ranging and tapes and EDM. Measurement of distance by pacing. Slope Distance				
measurements by tapes and ranging rods. Scale Measurements a				
Tachometry Distance Measurements. Height of building measurements				
elevation of various points with level by HI method and rise & t				
contour map. Compass and Azimuth measurements. Measureme				
Theodolite instrument. Height of building measurements by using	-			
Traverses and Coordinate calculations.				
Housing Issues $[3-0-3]$	Course #:0908444 Prereq.:0908443			
This course discusses the development of housing definition on	the local and international levels, how to organize			
the residential areas and its basic components, patterns of				
residential environment on the social relations, and the residential				
each type, in addition to studying the slums and how to deal wit				
Architecture and Sustainable Design $[3 - 0 - 3]$	Course #:0908523 Prereq.:0908324			
The course deals with the main principles of sustainability that	the architect should apply to achieve a sustainable			
design for the building and its surrounding environment. It d				
aspects and explains how it can be applied by presenting variou	s case studies for sustainable projects.			
Interior Architecture $[3 - 0 - 3]$	Course #:0908525 Prereq.:0908423			
Design the interior architectural environment and its impact of				
place through focusing on the harmony of the interior elements, their shape, color, texture, lighting distribution				
and interior furniture; besides studying the ceilings, floors and walls treatments using different materials.				
High-Rises and Building Technology $[3 - 0 - 3]$	Course #:0908544 Prereq.:0908263			
This course covers the Definition of high-rise buildings, and the				
technical, structural, and technology systems in high-rise buildings, in addition to study their impacts on urban				
fabric, infrastructure networks, and skyline of the city.				
Conservation of Heritage Environment $[3 - 0 - 3]$	Course #:0908546 Prereq.:0908312			
The course aims at identifying the methods, standards and principles of the conservation processes of architectural				
heritage as defined by the international conventions. It also deals with the study of the most important techniques				
and methods used in managing the architectural heritage, classifying and restoring the buildings, In Jordan, the				
Arab world and the foreign countries.				
Special Topics in Architecture $[3 - 0 - 3]$	Course #:0908583 Prereq.:000000			
This course studies the relation between architecture and other				
in the field of architecture and discusses them in-depth.				
Architecture and Human Behavior $[3 - 0 - 3]$	Course #:0908584 Prereq.:0908312			
The course discusses the effect of the built environment on t	÷			
affects and affected by the surrounding area. The course focuses on the most important methods used to study and				
analyze the built environment through understanding the process of perception, recognition, and creating the				
mental map.				
Planning and Project management $[3 - 0 - 3]$	Course #:0908562 Prereq.:0908433			
Scientific methods of project management; Network analysis us				
path; Activity duration and project duration; Project time and cost control; Resource allocation and resource				
	ost control: Resource allocation and resource			
leveling.	ost control; Resource allocation and resource			