


**Form:  
Study Plan-  
Bachelors**

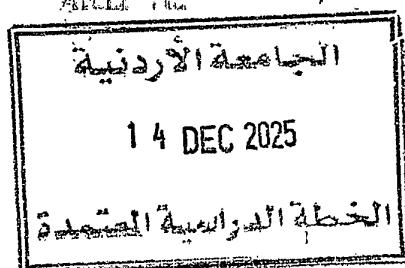
Form Number	EXC-01-03-02A
Issue Number and Date	2/3/24/2022/2963 2022/12/05
Number and Date of Revision or Modification	15/10/2023
Deans Council Approval Decision Number	265/2024/24/3/2
The Date of the Deans Council Approval Decision	2024/1/23
Number of Pages	35

1.	School	School of Engineering
2.	Department	Department of Architecture
3.	Program title (Arabic)	البكالوريوس في هندسة العمارة
4.	Program title (English)	B.Sc. in Architecture Engineering

**5. Components of Curriculum:**

The curriculum for the bachelor's degree in Architecture consists of (179) credit hours distributed as follows

Number	Type of requirement	Type of learning (face-to-face   blended   online)	credit hours
First	University Requirements		27
Second	Faculty Requirements		26
Third	Department Requirements		126
<b>Total</b>			<b>179</b>





6. Numbering System:

**A- Department number**

Department	Number
Civil Engineering	1
Architectural Engineering	2
Electrical Engineering	3
Mechanical Engineering	4
Chemical Engineering	5
Industrial Engineering	6
Computer Engineering	7
Mechatronics Engineering	8

**B- Course number**

Domain number	Domain title	Domain number	Domain title
0	General	5	Green and Sustainable Architecture
1	History of Architecture	6	Digital Architectural Technology
2	Theory of Architecture	7	Project Management and Professional Practice
3	Building Technology and Systems	8	Architectural Design
4	Urban Studies	9	Architectural Communication

**C- Course number consists of 7 digits**

School	Department	Level	Domain	Serial number
0	9	0	2	الجامعة الاردنية

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## First: University Requirements:

## Preparation Program Requirements

All students admitted to the university must apply for a degree examination in Arabic and English and the computer is prepared or approved by the university to determine their level. Based on the results of the examinations, either the student will study one or more of the requirements of the preparatory program

(0 - 15 Credit Hours)

No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Community Service	0900150	0		
2	Computer Skills Placement Test	1902098	0		
3	Basics of Computing	1932099	3		Pass/Fail
4	Arabic Language (Level 1)	3201001	3		
5	Arabic Language (Level 2)	3201002	3	3201001	
6	English Language (Level 1)	3202001	3		
7	English Language (Level 2)	3202002	3	3202001	
8	Arabic Placement Test	3211098	0		
9	English Placement Test	3212098	0		

## Compulsory Requirements

(18 Credit Hours)

No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Military Sciences	2220100	3		
2	English Language (Level 3)	3202003	3	3202002	
3	National Culture	3400100	3		
4	Ethics and Social Responsibility	3420100	3	الخواص الأخلاقية والاجتماعية	
5	Entrepreneurship, Leadership and Creativity	3420101	3	31 DEC 2025	

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6	Communication and Soft Skills in English	3420103	3	3202003	
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**Electives****(9 Credit Hours)**

Elective courses: (9) credit hours to be chosen from the first, second and third groups mentioned below. The student has to choose one course from each of the groups.

**(First Group)**

No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Environmental Culture and Development	0310102	3		
2	Islamic Culture	0400102	3		
3	Health Culture	0720100	3		
4	Legal Culture	1000102	3		
5	Physical Fitness Culture	1100100	3		
6	Introduction to Philosophy and Critical Thinking	3400103	3		
7	Tourism Culture	3400111	3		

**(Second Group)**

1	Islam and Contemporary Issues	0400101	3	
2	Social Media	1900101	3	
3	Appreciation of Arts	2000100	3	
4	Foreign Language	2200103	3	
5	Arab-Islamic Civilization	2300101	3	
6	Jordan: History and Civilization	2300102	3	
7	Special Subject	3400106	3	
8	Great Books	3400107	3	
9	Jerusalem	3400108	3	العنوان

**(Third Group)**

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العنوان



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No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Special Topic in Digital Skills	1900104	3	0907101	

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**Second:** School courses: distributed as follows:

- A. Obligatory school courses: (26) credit hours
- B. Elective school courses: (None) credit hours

- A. Obligatory school courses: (26) credit hours:

Course Number	Course Title	Type of learning (face-to-face   blended   online)	Contact Hours		Credit Hours	Pre-requisite
			Theoretical	Practical		
0301101	Calculus (1)	face-to-face	3	-	3	-
0301102	Calculus (2)	face-to-face	3	-	3	0301101
0301201	Calculus (3)	face-to-face	3	-	3	0301102
0302101	General Physics (1)	face-to-face	3	-	3	-
0302111	Physics Lab. (1)	face-to-face	-	3	1	0302101 or Co-requisite
0302102	General Physics (2)	face-to-face	3	-	3	0302101
0302112	Physics Lab. (2)	face-to-face	-	3	1	0302102 or Co-requisite
0921420	Engineering Economy	online	2	-	2	Finished Cr. 90 hr.
0904131	Engineering Graphics & Descriptive Geometry	face-to-face	2	2 Drawing 2 Computer		-
0966111	Engineering Workshops	face-to-face	-	3	1	-
0907101	Computer Skills for Engineers	face-to-face	3		3	1932099

- B. Elective school courses: (None) credit hours:

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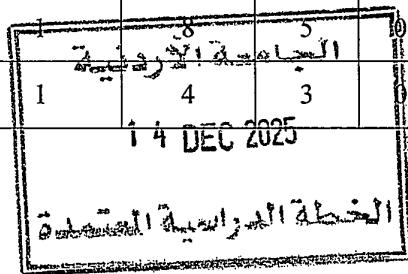


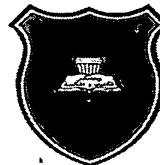
**Third: Specialty courses: (126) credit hours distributed as follows:**

**B. Obligatory specialty courses: (117) credit hours**  
**C. Elective specialty courses: (9) credit hours**

**A. Obligatory specialty courses: (117) credit hours:**

Course Number	Course Title	Type of learning (face-to-face, blended   online)	Contact Hours		Credit Hours	Pre-requisite
			Theoretical	Practical		
0942111	History of Architecture (1)	face-to-face	2	-	2	-
0902181	Fundamentals of Architectural Design (1)	face-to-face	1	6	4	0904131*
0902182	Fundamentals of Architectural Design (2)	face-to-face	1	6	4	0902181
0902191	Visual Communication 1	face-to-face	1	2	2	0904131*
0902192	Visual Communication 2	face-to-face	1	4	3	0904131 - 0902191
0922211	History of Architecture (2)	Online	2	-	2	0942111
0922212	History of Modern Architecture	face-to-face	2	-	2	0922211
0922231	Building Construction (1) Materials and Finishes	face-to-face	2	2	3	-
0921232	Structural Mechanics & Principles	face-to-face	3	-	3	0922231
0922233	Building Construction (2) Systems	face-to-face	2	2	3	0922231-0921232*
0902261	Computer Aided Design in Architecture	blended	1	4	3	0902192*
0942223	Architectural Design (1)	face-to-face	1	8	5	0902182
0942224	Architectural Design (2)	face-to-face	1	8	5	0942223
0902291	Architectural Representation	blended	1	4	3	0902192





Course Number	Course Title	Type of learning (face-to-face   blended   online)	Contact Hours		Credit Hours	Pre-requisite
			Theoretical	Practical		
0922311	Contemporary Architecture	face-to-face	2	-	2	0922212
0902312	Islamic Architecture	face-to-face	2	-	2	0922211
0922321	Architectural Criticism & Analysis	face-to-face	3	-	3	0922212
0902325	Research Methods in Architecture	face-to-face	2	-	2	-
0922351	Environmental Control Systems I Temperature & Humidity	face-to-face	3	-	3	-
0922352	Environmental Control Systems II Illumination & Acoustics	face-to-face	2	2	3	0922351
0922361	Building Information-Modelling (BIM)	blended	2	2	3	0902261
0952323	Architectural Design (3)	face-to-face	1	8	5	0942224
0952324	Architectural Design (4)	face-to-face	1	8	5	0952323
0922331	Architectural Workshop-Drawings	blended	2	2	3	0922233-0922361
0962451	High Performance Buildings	blended	2	2	3	0922361-0922351
0922421	Regional & Local Architecture	face-to-face	3	-	3	0932321
0944349	Mechanical Systems for buildings	face-to-face	3	-	3	0942224
0922441	Urban Design and Site Planning	face-to-face	3	-	3	-
0902353	Building Legislation	face-to-face	3	-	3	0952324
0922472	Ethics and Professional Practice	face-to-face	2	-	2	0902353*
0922473	Specifications & Quantities	face-to-face	3	٢٠٢١/١٤-٠٩٠٢٣٥٣		
0922423	Architectural Design (5)	face-to-face	1	8	14 DEC 2020	0952324

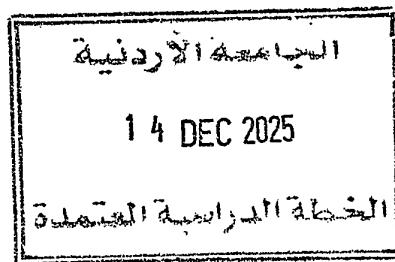
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Course Number	Course Title	Type of learning (face-to-face   blended   online)	Contact Hours		Credit Hours	Pre-requisite
			Theoretical	Practical		
0922482	Architectural Design (6)	face-to-face	1	8	5	0902353 0922423 0922441
0952500	Employability Readiness and Field Training **	face-to-face	-	12	6	0922482- Completing 120 C.H. Successfully
0922581	Graduation Project Thesis	face-to-face	1	2	2	0922482- 0902325
0922597	Graduation Project Design	face-to-face	-	8	4	0922581
<b>Total</b>					<b>117</b>	

\*Prerequisite or Co-requisite.

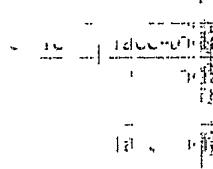
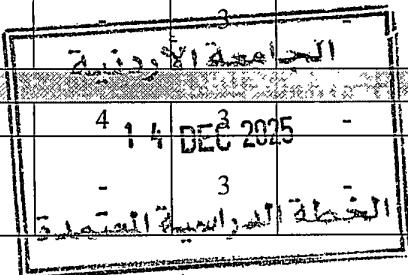
\*\* Full Time training, Not Allowed to register any course except Graduation Project Thesis and Graduation Project Design





## B. Elective specialty courses: (9) credit hours:

Course Number	Course Title	Type of learning (face-to-face   blended   online)	Contact Hours		Credit Hours	Pre-requisite
			Theoretical	Practical		
<b>Urban Studies</b>						
0922442	Landscape Architecture	face-to-face	2	2	3	-
0922443	Geographic Information Systems	face-to-face	2	2	3	-
0922444	Housing Issues	online	3	-	3	-
0922445	Urban Sustainability	face-to-face	3	-	3	-
0922446	History and theory of urban form	face-to-face	3	-	3	-
0922447	Urban Planning & Development Management	face-to-face	3	-	3	-
0922448	Special Topics in Urban studies	face-to-face	3	-	3	-
<b>Design, History and Theory</b>						
0962321	Architectural design methods & Programming	face-to-face	3	-	3	-
0922322	Theory of architecture	face-to-face	3	-	3	-
0922324	Environmental Psychology	face-to-face	3	-	3	-
0922326	Theory of Digital architecture	face-to-face	3	-	3	-
0922332	Structures and Architectural Form	face-to-face	3	-	3	-
0922312	Conservation of Architectural Heritage	Online	3	-	3	-
0922362	Digital Design Media	face-to-face	1	4	3	-
0922483	Interior Architecture	face-to-face	3	-	3	-
0922422	Special Topics in Architectural History and Theory	face-to-face	3	-	3	-
<b>Architectural Technology</b>						
0922432	Digital Fabrication Lab	face-to-face	1	4	3	-
0922333	Fundamentals of Architectural Technology	face-to-face	3	-	3	-





0921235	Surveying for Architects	face-to-face	1	4	3	-
0922461	Parametric modelling	face-to-face	-	6	3	-
0922462	Virtual and Augmented Reality	face-to-face	1	4	3	-
0922474	Architectural Project Management	face-to-face	3	-	3	-
0922353	Sustainable Design Principles	face-to-face	3	-	3	-
0922433	Special Topics in Architectural Technology	face-to-face	3	-	3	-

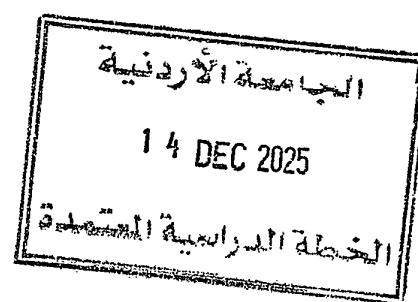
**Fourth:** Courses offered by other faculties/schools and departments:

Course Number	Course Title	Type of learning (face-to-face, blended, online)	Contact Hours		Credit Hours	Pre-requisite
			Theoretical	Practical		
0301101	Calculus (1)	face-to-face	3	-	3	-
0301102	Calculus (2)	face-to-face	3	-	3	0301101
0301201	Calculus (3)	face-to-face	3	-	3	0301102
0302101	General Physics (1)	face-to-face	3	-	3	-
0302111	Physics Lab. (1)	face-to-face	1	3	-	0302101 or Co-requisite
0302102	General Physics (2)	face-to-face	3	-	3	0302101
0302112	Physics Lab. (2)	face-to-face	1	3	-	0302102 or Co-requisite
0921420	Engineering Economy	online	2	-	2	Completion of 90 C.H
0904131	Engineering Graphics & Descriptive Geometry	face-to-face	2	2 Drawing, 2 Computer	3	DEC 2025

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0966111	Engineering Workshops	face-to-face	1	3	-	-
0907101	Computer Skills for Engineers	face-to-face	3	-	3	1902099
0934349	Mechanical Systems for buildings	face-to-face	3	0	3	0932224
0921232	Structural Mechanics & Principles	face-to-face	3		3	0902231
0921235	Surveying for Architects	face-to-face	1	4	3	-



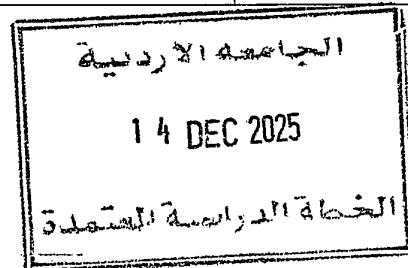


**Fifth: Advisory Study Plan**

**First Year**

First Semester				Second Semester			
Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours	Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours
0301101	Calculus (1)	face-to-face	3	0301102	Calculus (2)	face-to-face	3
0902181	Fundamentals of architectural design (1)	face-to-face	4	0902182	Fundamentals of architectural design (2)	face-to-face	4
0902191	Visual Communication 1	face-to-face	2	0902192	Visual Communication 2	face-to-face	3
0904131	Engineering Graphics & Descriptive Geometry	face-to-face	3	0942111	History of Architecture (1)	face-to-face	2
0302101	General Physics (1)	face-to-face	3	0302102	General Physics (2)	face-to-face	3
0302111	Physics Lab (1)	face-to-face	1	0302112	Physics Lab. (2)	face-to-face	1
<b>Total</b>			16	<b>Total</b>			16

Summer Semester		
Course Number	Course Title	Credit Hours
0301201	Calculus (3)	3
0907101	Computer Skills for Engineers	3
	University Obligatory	3
	<b>Total</b>	9



face-to-face

Play



Second Year

First Semester				Second Semester			
Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours	Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours
0942223	Architectural Design (1)	face-to-face	5	0942224	Architectural Design (2)	face-to-face	5
0922231	Building Construction (1) Materials and Finishes	face-to-face	3	0922233	Building Construction (2) Systems	face-to-face	3
0922211	History of Architecture (2)	Online	2	0922212	History of Modern Architecture	face-to-face	2
0902261	Computer Aided Design in Architecture	Blended	3	0902291	Architectural Representation	Blended	3
0921232	Structural Mechanics & Principles	face-to-face	3	0966111	Engineering Workshop	face-to-face	1
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>14</b>

Summer Semester			
Course Number	Course Title	Ques.	Credit Hours
	University Obligatory	Ques.	3
	University Obligatory	Ques.	3
	University Obligatory	Ques.	3
<b>Total</b>			<b>9</b>

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Third Year

First Semester				Second Semester			
Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours	Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours
0952323	Architectural Design (3)	face-to-face	5	0952324	Architectural Design (4)	face-to-face	5
0922321	Architectural Criticism & Analysis	face-to-face	3	0902353	Building Legislation	face-to-face	3
0902312	Islamic Architecture	face-to-face	2	0922311	Contemporary Architecture	face-to-face	2
0922351	Environmental Control Systems I Temperature & Humidity	face-to-face	3	0922352	Environmental Control systems II Illumination & Acoustics	face-to-face	3
0922361	Building Information Modelling (BIM)	Blended	3	0922331	Architectural Workshop Drawings	Blended	3
<b>Total</b>		<b>16</b>		<b>Total</b>		<b>16</b>	

Summer Semester		
Course Number	Course Title	Credit Hours
	University Obligatory	3
	University Elective	3
<b>Total</b>		

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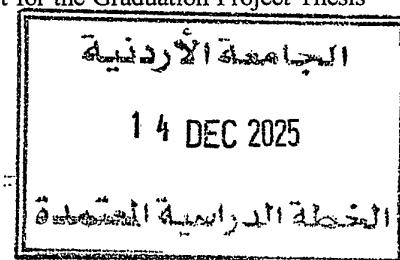


Fourth Year

First Semester				Second Semester			
Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours	Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours
0922423	Architectural Design (5)	face-to-face	5	0922482	Architectural Design (6)	face-to-face	5
0922441	Urban Design and Site planning	face-to-face	3	0922473	Specifications & Quantities	face-to-face	3
0922472	Ethics and Professional Practice	face-to-face	2	0922421	Regional & Local Architecture	face-to-face	3
0902325	Research Methods in Architecture	face-to-face	2	0944349	Mechanical Systems for buildings	face-to-face	3
0962451	High Performance Buildings	Blended	3				
<b>Total</b>		<b>15</b>		<b>Total</b>			<b>14</b>

Summer Semester		
Course Number	Course Title	Credit Hours
0952500	Employability Readiness and Field Training *	6
<b>Total</b>		<b>6</b>

\*The student is required to complete three months of full-time practical training after finishing a total of 120 credit hours. No other courses may be registered during this period, except for the Graduation Project Thesis and Graduation Project Design.





Fifth Year

First Semester				Second Semester			
Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours	Course Number	Course Title	Type of learning (face-to-face/ blended / online)	Credit Hours
0922581	Graduation Project Thesis	face-to-face	2	0922597	Graduation Project Design	face-to-face	4
	Department Elective	face-to-face	3		University Elective		3
	Department Elective	face-to-face	3		University Elective		3
0921420	Engineering Economy*	online	2		Department Elective		3
	University Obligatory		3				
<b>Total</b>			<b>13</b>	<b>Total</b>			<b>13</b>

\*Completion of 90 credit hours is required

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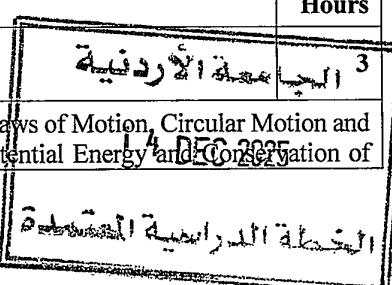
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الخطابة الدراسية المتمدة



## Course Description

0301101	Calculus I	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> (None)		face-to-face	3
Functions: domain, operations on functions, graphs of functions, trigonometric functions, limits: meaning of a limit, computational techniques, limits at infinity, infinite limits, continuity, limits and continuity of trigonometric functions, the derivative: techniques of differentiation, derivatives of trigonometric functions, the chain rules, implicit differentiation, differentials, Roll's Theorem, the mean value theorem, the extended mean value theorem, L'Hopital's rule, increasing and decreasing functions, concavity, maximum and minimum values of a function, graphs of functions including rational functions (asymptotes) and functions with vertical tangents (cusps), antiderivatives, the indefinite integral, the definite integral, the fundamental theorem of calculus, the area under a curve, the area between two curves, transcendental functions: inverse functions, logarithmic and exponential functions, derivatives and integrals, limits (the indeterminate forms), hyperbolic functions and their inverses, inverse trigonometric functions.			
0301102	Calculus II	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> 0301101		face-to-face	3
Techniques of integration: integration by substitution, integration by parts, integrating powers of trigonometric functions, trigonometric substitutions, integrating rational functions, partial fractions, rationalization, miscellaneous substitution, improper integrals, application of definite integral: volumes, length of a plane curve, area of a surface of revolution polar coordinates and parametric equations: polar coordinates, graphs in polar coordinates, area in polar coordinates, infinite series: sequences, infinite series, convergence tests, absolute convergence, conditional convergence, alternating series, power series: Taylor and Maclurine series, differentiation and integration of power series.			
0301103	Calculus III	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> 0301102		face-to-face	3
Three-dimensional space and vectors rectangular coordinates in 3-space, spheres, cylindrical surfaces, quadric surfaces, vectors: dot product, projections, cross product, parametric equations of lines. Planes in 3-spaces, vector-valued functions: calculus of vector valued functions, change of parameters, arc length, unit tangent and normal vectors, curvature, functions of two or more variables: domain, limits, and continuity, partial derivatives, differentiability, total differentials, the chain rule, the gradient, directional derivatives, tangent planes, normal lines, maxima and minima of functions of two variables, Lagrange multipliers, multiple integrals: double integral, double integrals in polar coordinates, triple integrals, triple integrals in cylindrical and spherical coordinates, change of variables in multiple integrals, Jacobian.			
0302101	General Physics I	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> Physics of secondary stage or equivalent or 0302099		face-to-face	3
Motion in One Dimension, Vectors, Motion in Two Dimensions, The Laws of Motion, Circular Motion and Other Applications of Newton's Laws, Work and Kinetic Energy, Potential Energy and Conservation of Energy.			





Energy, Linear Momentum and Collisions, Rotation of a Rigid Object About a Fixed Axis, Rolling Motion and Angular Momentum.			
0302111	General Physics Lab. I	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0302101 or Concurrent		face-to-face	1
11 experiments each of 3 hrs/week duration: collection and analysis of data, measurements and uncertainties, vectors: force table, kinematics of rectilinear motion, force and motion, collision in two dimensions, rotational motion, simple harmonic motion: simple pendulum, gas's Laws, ballistic pendulum, specific heat capacity of metals.			
0302102	General Physics II	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0302101		face-to-face	3
Electric field, Gauss's law, electric potential, capacitance and dielectrics, current and resistance, direct current circuits, magnetic field, sources of the magnetic field, Faraday's law, inductance, alternating current circuits, the nature of light and the principles of ray optics, image formation.			
0921420	Engineering Economy	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: Completing 90 Cr. Hrs.		online	2
Major elements of feasibility studies. Principles of engineering economy. Equivalence and compound interest formulas. Single payment model. Uniform payment model. Gradient payment model. Exponential payment model. Decision criteria for single and multiple alternatives: present worth, annual worth, future worth, internal rate of return, benefit/cost ratio and payback methods. Income-tax effect on decision making.			
0302112	General Physics Lab. II	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0302101 or concurrent		face-to-face	1
12 experiments each of 3 hrs/week duration: electric field mapping, specific charge of copper ions, power transfer, potentiometer, capacitors: RC time constant, Kirchoff's laws, magnetic field of a current, lenses, Young's double slit experiments, electromagnetic induction, Ohm's law, Wheatstone bridge.			
0904131	Engineering Graphics and Descriptive Geometry	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: None		face-to-face	3
Drawing equipment and use of instruments. Lettering, Geometric construction, Sketching and shape description. Basic descriptive geometry, Developments and intersections. Axonometric, oblique and perspective drawings, Multiview projection, Principal views, Conventional practice, and sectional views. Auxiliary views. Dimensioning techniques. Parallel: Introduction to computer drawing, Drawing aids, Geometrical construction, and the appropriate commands of text, editing, plotting, sections, layers, pictorial views, and dimensioning. Auxiliary views.			
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0966111	Engineering Workshops	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> None		face-to-face	1
General safety, materials and their classifications, measuring devices and their accuracy, fits and tolerances, theoretical background for the practical exercises including fitting, forging, carpentry, casting, welding, mechanical saws, shearers, drills, lathes, milling machines, shapers and grinders.			
0907101	Computer Skills for Engineers	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> 1932099		face-to-face	3
This course presents the fundamental concepts of programming using one high level programming language like C++, Java, or Python. It covers the basic structures of the programming language such as variables, data types, control structures, arrays, functions, and introduction to records (struct) and object-oriented programming (classes and objects). The course will focus on providing the students with practical programming skills through home works and exams which require writing whole programs.			
0942111	Course Title: History of Architecture (1)	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> (none)		face-to-face	2
<b>Course Description:</b> Introduction to the history of architecture development through the ancient civilizations of Paleolithic, Egypt, Mesopotamia, Greece, and Rome. Discussing local examples in Jordan in relation to site, environment and architectural characteristics within broader historical contexts. Analysis of historical monuments and buildings and their architectural characteristics. Emphasis on the architectural principles, theories, and impact on the development of buildings throughout ancient times. Examining ancient historical patterns and viewpoints of various progressive theoreticians..			
0902181	Course Title: Fundamentals of architectural design (1)	Type of learning (face-to-face/ blended / online)	Credit Hours
<b>Prerequisite:</b> 0904131*		face-to-face	4
<b>Course Description:</b> Introduces core design principles to first-year architectural students. Covers design elements, proportion, scale, ordering systems, and organizational strategies. Includes analysis of two and three-dimensional visual compositions and the development of design vocabulary. Explores craft, materials, and visual compositions. Emphasis is placed on critical thinking, experiential knowing, and the formation of two- and three-dimensional visual compositions.			

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0902182	Course Title: Fundamentals of architectural design (2)	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0902181		face-to-face	4

**Course Description:**

Builds upon the foundation established in Design Fundamentals I. Continues to develop fundamental design skills by exploring architecture's formal and spatial properties. Students learn to translate human needs and purposes into meaningful architectural forms. Emphasizes the principles and methods of design, focusing on conceptual development. By studying architectural precedents, students enhance their communication and design skills while developing an understanding of architectural language.

0902191	Course Title: Visual Communication 1	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0904131*		face-to-face	2

**Course Description:**

Introduces students to freehand drawing skills to express perceptions, ideas, and images; two and three-dimensional visualization of form and space. Develops a sense of abstraction, volume, and composition by analyzing light, shadow, materials, textures, and various contextual elements. Emphasizes the role of graphic communication in the design process, including color sketching.

0902192	Course Title: Visual Communication 2	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0904131 – 0902191		face-to-face	3

**Course Description:**

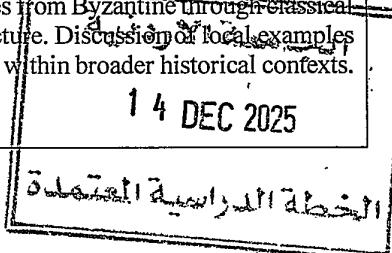
Studies the theoretical principles of architectural representation methods, including orthogonal projections, axonometric drawing, and perspective. Examines their applications in creating architectural compositions. Covers the theoretical foundations of shadow theory and its architectural application, utilizing conventional drawing tools.

0922211	Course Title: History of Architecture (2)	Type of learning (face-to-face/ blended / online)	Credit Hours
Prerequisite: 0942111		Online	2

**Course Description:**

Introduction to the development of architecture through Early Christian era, Byzantine, Romanesque, Gothic, and Renaissance. Comparative analysis of historical building types from Byzantine through Classical Revivalism in Europe and the United States. Relevant theories of architecture. Discussion of local examples in Jordan in relation to site, environment, and architectural characteristics within broader historical contexts.

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0922212	Course Title: History of Modern Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922211		face-to-face	2

**Course Description:**

Examines the history and theory of architecture from the 1750s to the end of the 1960s, focusing on the reading of significant works by architects and key movements that represent that period's theoretical, technical, and historiographical issues. Proceeds chronologically, tracing the history and characteristics of different movements while critically examining the technological, cultural, aesthetic, and theoretical aspects that contributed to the emergence of each architectural movement.

0922231	Course Title: Building Construction (1) Materials and Finishes	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		face-to-face	3

**Course Description:**

An understanding of local and regional building materials, focusing on their physical and mechanical properties. Topics include producing, manufacturing, and applying materials such as Aggregate, Cement, Concrete, Concrete blocks, Steel, Wood, and Insulation. Both structural and non-structural building components are explored. Understand the principles of selecting construction materials and finishes according to their performance, environmental impact, and potential for reuse. The course incorporates assignments, field visits to manufacturing places and construction sites, report writing on the production and use of building and finishing materials and technical drawings for small-scale projects to demonstrate the application of materials within a comprehensive set of drawings.

0921232	Course Title: Structural Mechanics & Principles	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922231		face-to-face	3

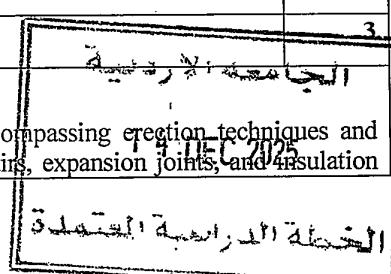
**Course Description:**

Understanding forces, compounds, moments, rigid and elastic bodies, and equilibrium in two dimensions, types of anchors, types of structures such as frames, trusses, and beams, and ways to find internal forces in them. Moment of inertia, axial stresses, Hooke's law, modulus of elasticity, and stresses under the influence of different moments. Learn to distribute columns and shear walls and estimate cantilevers' dimensions in small-scale projects.

0922233	Course Title: Building Construction (2) Systems	Type of learning (face-to-face/ blended / online)	3 Credit Hour
Prerequisite: 0902231 - 0921232*		face-to-face	3

**Course Description:**

Explores various construction methods employed in buildings, encompassing erection techniques and structural element components such as foundations, walls, roofs, stairs, expansion joints, and insulation.





systems. Emphasizes the selection of appropriate structural systems considering their performance and environmental impact. Studio working drawings, site visits, and field assignments are incorporated to bridge the gap between theoretical knowledge and practical application.

0902261	Course Title: Computer Aided Design in Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0902192*		Blended	3

#### Course Description:

Introduces the use of computers in design, strengthening the basic principles of computer-aided design, drawing, and representation. Explores the commands for 2D drafting and 3D modelling and techniques for modelling geometric curves and surfaces with architecture-related examples. Covers fundamental elements of visualization, including perspective, orthographic projections, scenes, lighting, and materials.

0942223	Course Title: Architectural Design (1)	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0902182		face-to-face	5

#### Course Description:

Introduces the complexity of architectural design by engaging with problems of limited scale. Emphasizes the role of form, tectonics, function, spatial composition, site, program, and material to address human needs and investigate the interconnection between the natural and built environment. Introduces basic structural principles. Designs an elementary architectural project on a plain plot of land to address dwelling issues. The course reinforces students' graphic and verbal communication skills, emphasizing the crucial role of model-making and drawing in informing the design process.

0942224	Course Title: Architectural Design (2)	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0942223		face-to-face	5

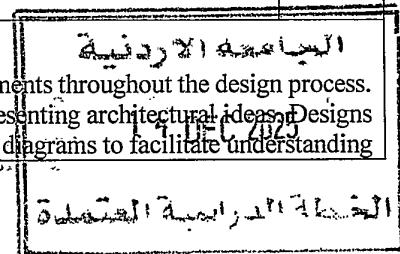
#### Course Description:

Designs projects with moderate complexities, highlighting the interrelationship between form, tectonics, function, structural systems, site, program, and material as crucial determinants in architectural projects. The emphasis is placed on designing public buildings, considering their specific requirements. Additionally, introduces students to the role of environmental and climatic considerations in shaping the built environment.

0902291	Course Title: Architectural Representation	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0902192		Blended	3

#### Course Description:

Explores diverse representational media to convey essential formal elements throughout the design process. Enhances communication skills for conceptualizing, analyzing, and presenting architectural ideas. Designs concise, clear, and compelling visual and verbal presentations. Creates diagrams to facilitate understanding.





of the built environment and effectively communicate spatial conditions and design intentions. Develops skills in designing presentation layouts that maximize impact and convey information effectively.

0922311	Course Title: Contemporary Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922212	face-to-face		2

**Course Description:**

Traces the development of architecture from the late 1960s to the 21st century, analyzing key architectural ideas, ideologies, and projects within the rapidly changing context of globalization. It focuses on the most influential works and examines how architects have adapted their thinking to align with contemporary design trends. Additionally, the course critically examines the evolution of contemporary architecture and its relationship to the challenges and opportunities present in both the profession and society today.

0902312	Course Title: Islamic Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922211	face-to-face		2

**Course Description:**

Explores Islamic historical architecture within its cultural, social, economic, and political context, examining building traditions in specific periods or regions. Studies the chronological development of Islamic civilization and architecture, including religious and civic structures. Introduces students to historical and contemporary expressions influenced by Islam in diverse regions.

0922321	Course Title: Architectural Criticism & Analysis	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922212	face-to-face		3

**Course Description:**

Introduces the theory and practice of architectural criticism. It examines fundamental philosophical questions regarding the nature of criticism, its roles and functions, and its relationship to judgment and evaluation. Specific works and texts are analyzed to identify various modes of criticism, and to explore the connections between architectural criticism, theory, academia, and professional practice. The course also develops students' abilities to critically interpret architectural works using explicit methodologies and effectively communicate their insights through both written and graphic mediums.

0902325	Course Title: Research Methods in Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none	face-to-face		2

**Course Description:**

Provides students with the necessary skills and expertise to carry out original research. Introducing the fundamental principles of research within the field of architecture. Introduces the essential elements of research methodology, including key concepts utilized in both quantitative and qualitative research methods, data collection techniques, methods of analysis, and the final presentation of proposals and theses.

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Emphasizes critical issues, such as formulating research questions, exploring various epistemologies, and the stages of a particular research process. Additionally, introduce a range of research strategies and expose students to various research tools.

0922351	Course Title: Environmental Control Systems I Temperature & Humidity	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		face-to-face	3

**Course Description:**

Introduce students to the fundamentals of heat transfer. Traditional Architecture and Environmental control systems. Vernacular practices based on past experiences. Climate classification. Thermal comfort in the built environment. Thermal adaptation. Climate classification. Bioclimatic assessment. Thermal performance of building envelopes. Solar Geometry. Shading analysis and shading systems. Building envelop indices and measures. Smart environmental control systems. Passive solar techniques. Passive cooling techniques. Environmental control in the urban context. Smart environmental control systems. Energy efficiency measures for buildings.

0922352	Course Title: Environmental Control systems II (Illumination & Acoustics)	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922351		face-to-face	3

**Course Description:**

Covers the fundamental principles of acoustics; exploring sound and vibration, sound propagation, acoustic quality indicators, acoustic materials, and acoustic design considerations. Examines noise control, sound barriers, human hearing, physio-psychological factors, sound in a free field, room acoustics, and auditorium acoustics. Additionally, covers illumination basics, measurement concepts and analogies, the inverse square law, human vision, daylighting, daylight harnessing systems, artificial lighting, calculation methods, design methods, illumination in architectural spaces, electricity, lighting efficiency, international and national lighting codes, and lighting smart systems. Incorporates hands-on experiments, field surveys, and simulation techniques for both acoustics and lighting.

0922361	Course Title: Building Information Modeling (BIM)	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0902261		Blended	3

**Course Description:**

Introduces the use of BIM tools in the building lifecycle, focusing on design development and information management. Topics covered include computer-aided design, parametric modeling, databases, web technologies, design performance, simulation, documentation, and visualization. Through hands-on experience, students will acquire a theoretical and practical understanding of the BIM system and its practical applications in the Architecture, Engineering, and Construction (AEC) industry.

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الخطابة الدراسية المتمدة

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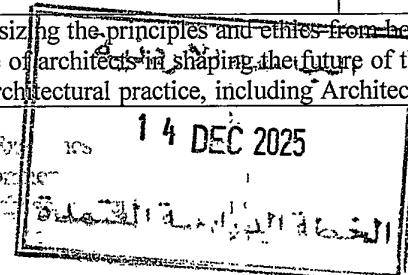
0952323	Course Title: Architectural Design (3)	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0942224		face-to-face	5
<b>Course Description:</b>			
Emphasizes the comprehensive nature of architectural design by integrating architectural theories and philosophy. Students tackle the design of a multi-functional building with moderate complexity on a gentle slope site. A detailed study of interior spaces is conducted. Social, psychological, and economic aspects influencing architecture and design are also addressed. Studio work involves research, data gathering, analysis, and program definition to develop comprehensive design solutions.			
0952324	Course Title: Architectural Design (4)	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0952323		face-to-face	5
<b>Course Description:</b>			
Explores architectural design in existing urban environments, encouraging critical thinking, boundary-pushing, and exploration of new design paradigms. Students undertake a moderately complex project on a challenging site with varying topography. Emphasis is placed on interior space design, fostering a holistic approach to architecture. The course examines diverse influences, including architectural, urban, social, economic, and political factors, to develop a comprehensive understanding of the design process and its theoretical foundations.			
0922331	Course Title: Architectural Workshop Drawings	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922233– 0922361		Blended	3
<b>Course Description:</b>			
Provides comprehensive instruction in concepts, practices, standards, regulations, and drafting techniques for working drawings. Develops practical skills by creating plans, elevations, sections, and construction details for actual buildings. Guides students through the entire process, from drawing to construction execution, to produce industry-standard working drawings.			
0962451	Course Title: High Performance Buildings	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922361- 0922351		Blended	3
An exploration of high-performance building design through the application of advanced simulation tools. Students will learn to optimize building performance across various dimensions, including energy efficiency, thermal comfort, daylighting, indoor air quality, and acoustic performance. Through simulations and case studies, students will develop skills to analyze, evaluate, and design buildings that achieve performance standards while addressing environmental, economic, and occupant health concerns.			

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0922421	Course Title: Regional & Local Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0922321	face-to-face	3	
<b>Course Description:</b>			
Introduces students to the local architecture of Jordan and the Middle East, examining the distinctive characteristics of building styles that reflect social, economic, and technological transformations. Emphasizes the analytical recording process to develop a comprehensive understanding of building construction and typology, serving as a crucial foundation for informed decision-making.			
0944349	Course Title: Mechanical Systems for buildings	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0942224	face-to-face	3	
Providing foundations for architectural engineering students to design mechanical systems that promote energy saving, occupant comfort, and health in buildings. Topics: Psychrometry, Heating and cooling, Load calculations, Heating networks, Boilers, Radiators, Pumps, Air conditioning, Air distribution and domestic hot water. Building sanitary systems, cold water networks, pumps, firefighting networks and drainage systems and materials. Lifts design, load, speeds and control systems. Elevator room dimensions.			
0922441	Course Title: Urban Design and Site Planning	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none	face-to-face	3	
Explores the fundamentals of site planning principles, including urban design objectives, components, and principles such as land use, connectivity, and public spaces. Examines urban design theories and best practices to understand the interplay between the built environment and the surrounding community. Engages students in case studies and practical exercises to apply these concepts, fostering the development of innovative and contextually responsive site plans. Emphasizes the integration of architecture and urban design.			
0902353	Course Title: Building Legislation	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0952324	face-to-face	3	
Provides a comprehensive overview of building legislation and regulations governing the construction industry, specifically focusing on building legislation, standards, and codes in Jordan. Topics covered include building permits, inspections, occupancy requirements, fire safety, accessibility standards, and the principles of Architectural Universal Design and their application in various building typologies.			
0922472	Course Title: Ethics and Professional Practice	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: 0902353*	face-to-face	2	
Introduces students to professional architectural practice, emphasizing the principles and ethics from both local and international perspectives. Explores the role and value of architects in shaping the future of the profession. Covers managerial, legal, and financial aspects of architectural practice, including Architects			





registration and Jordanian Engineers Association Laws. Addresses the dynamics of stakeholder interactions within the practice, including clients, contractors, authorities, and other engineers.

0922473	Course Title: Specifications & Quantities	Type of learning (face-to-face/ blended / online)	Credit Hour
	<b>Prerequisite:</b> 0902353	face-to-face	3

Explores various quantity surveying (QS) methods and specification writing based on working drawings. Covers the preparation of QS tables, contract documents, and specifications. Studies FIDIC (the international federation of consulting engineers) and the contracts approved by the Ministry of Public Works and Housing. Discusses the utilization of BIM in linking specifications, QS, costs, and working drawings.

0922423	Course Title: Architectural Design (5)	Type of learning (face-to-face/ blended / online)	Credit Hour
	<b>Prerequisite:</b> 0952324	face-to-face	5

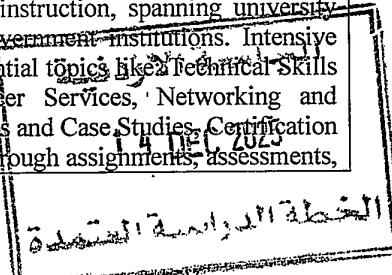
Covers building systems and sustainable strategies, focusing on integrating fundamental construction techniques, advanced structural systems, and green strategies in designing large-scale, complex buildings. Emphasizes the combination of building technologies with formal, environmental, and aesthetic objectives to develop a comprehensive and cohesive final design proposal. Through the course, students will gain a profound understanding of utilizing structure and building technology as architectural concepts and formal expressions. Includes submission of a technical set of drawings demonstrating the integration of these principles.

0922482	Course Title: Architectural Design (6)	Type of learning (face-to-face/ blended / online)	Credit Hour
	<b>Prerequisite:</b> 0902353 - 0922423 - 0922441	face-to-face	5

Focuses on the design of complex structures for medium to large-scale institutional programs in challenging urban environments. Explores the cultural, environmental, formal, structural, and programmatic aspects, emphasizing their connection to urbanity and the surrounding context. Encourages collaborative work to analyze and interpret these parameters, leading to socially and environmentally sustainable designs. Utilizes advanced digital and 3D modeling techniques to develop ambitious designs that effectively communicate the intellectual and physical attributes of the proposals.

0952500	Employability Readiness and Field Training	Type of learning (face-to-face/ blended / online)	Credit Hours
	<b>Prerequisite:</b> (Successfully completing 120 Cr. Hrs – 0922482)	face-to-face	6

The course offers a comprehensive blend of theoretical and practical instruction, spanning university classrooms and external settings such as companies, factories, and government institutions. Intensive coursework, totaling 105-120 contact hours over four weeks, covers essential topics like Technical Skills Development, Teamwork, Written and Oral Communications, Career Services, Networking and Professional Associations, Work Ethics, Professionalism, Industry Projects and Case Studies, Certification and Continuing Education. Emphasis is placed on practical application through assignments, assessments,





and field training, both domestically and internationally. The program aligns with University of Jordan regulations and aims to equip students with the skills necessary for successful careers.

\*\* Full Time training, Not Allowed to register any course except Graduation Project Thesis and Graduation Project Design

0922581	Course Title: Graduation Project Thesis	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite: 0922482 - 0902325</b>		face-to-face	2
Introduces students to professional practice by providing practical approaches to topic selection, proposal development, and design brief formulation. Develops skills in data collection, analysis, and synthesis. Guides students in defining project goals, objectives, and aesthetics. Encourages the creation of design proposals that reflect architectural theory and design thinking strategies. Offers faculty guidance in selecting project topics, conducting site analysis, considering contextual factors, and exploring philosophical concepts. Enhances communication skills through diverse presentation methods. Cultivates proficiency in project thesis writing.			

0922597	Course Title: Graduation Project Design	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite: 0922581</b>		face-to-face	4
Based on Graduation Project Thesis, the Graduation Project guides students to develop a comprehensive and integrated architectural solution to the previous design proposal. Students tackle complex architectural design problems, encompassing various aspects such as problem definition, context analysis, functional and utility requirement, human factors, structural, environmental, and aesthetic considerations. With a defined philosophical direction, students transform their conceptual design into a complete and cohesive solution. Under faculty guidance, students demonstrate their architectural knowledge, skills, and professional interests through a comprehensive project that showcases creativity, spatial planning, contextual integration, building technology proficiency, and effective communication and presentation abilities, expressively, and in technical writing.			

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## Urban Studies

0922442	Course Title: Landscape Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Introduces the history, principles, objectives, and components of landscape architecture. Explores the design and planning of outdoor spaces, emphasizing site analysis, plant selection, grading, and sustainable design strategies. Students will develop the skills and knowledge necessary to create functional and aesthetically pleasing outdoor spaces while considering environmental factors and user needs.			
0922443	Course Title: Geographic Information Systems	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Examines the fundamental principles and techniques of Geographic Information Systems (GIS). Focuses on GIS data collection, entry, storage, analysis, and output using ArcGIS, with an understanding of the methods and theories of spatial analysis. Provides students with the knowledge and skills to apply GIS in their chosen careers.			
0922444	Course Title: Housing Issues	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		online	3
Introduces students to the social and economic aspects influencing housing availability for different income groups. Examines the roles of the public and private sectors in housing provision and explores the coordination challenges among the various stakeholders involved. Includes case studies on deteriorated urban housing to provide practical insights into socio-economic and human issues.			
0922445	Course Title: Urban Sustainability	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Introduction to traditional urban planning and design knowledge with contemporary sustainable approaches and best practices such as smart growth, Sustainable Development Goals (SDGs), and New Urban Agenda, in an attempt to address critical issues such as climate change, amongst other pressing concerns.			
0922446	Course Title: History and theory of urban form	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Introduces students to the physical and conceptual elements of urban form and their impact on the city through history. Detailed studies of several important cities through history are conducted. Examines current urban design theories, trends, and experiences and how those could be related to the local cultural tradition and socio-economic conditions of the Arab region.			

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Course Title: Urban Planning & Development Management	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none	face-to-face	3
Introduces students to urban planning and management principles, emphasizing essential social, economic, and environmental factors. Explores theories and characteristics of the urban fabric, the evolution of cities and their components, and planning standards and management actions necessary to organize socio-spatial relations across various scales of government and governance.		
Course Title: Special Topics in Urban studies	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none	face-to-face	3
Focuses on various urban topics that are not covered in the regular curriculum. The course content must receive approval from the departmental council. Students can receive credit for this course only once.		

### Design, History and Theory

Course Title: Architectural design methods & Programming	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none	face-to-face	3

#### Course Description:

An introduction to the fundamental tools, techniques, and methodologies of design thinking, strategy, and practice in the context of architecture. Explores how designers incorporate and apply these methods to analyze, conceive, and shape architectural designs from initiation to realization. Additionally, introduces students to the research and decision-making process that defines the scope and goals of architectural projects. Equips students with essential skills in employing foundational methods and programming techniques to develop comprehensive architectural spatial programs.

Course Title: Theory of architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none	face-to-face	3

#### Course Description:

Explores the philosophical foundations of architectural design, emphasizing the relationship between theory and practice. Traces the evolution of architectural theory and its impact on design processes over time. Examines how philosophical considerations have influenced architectural discourse, movements, and the generation of forms. This course equips students with the analytical and critical skills necessary to engage with contemporary architecture by presenting architectural theory as an essential component of creation, comprehension, and interpretation.

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0922324	Course Title: Environmental Psychology	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		face-to-face	3
<b>Course Description:</b>			
Explores the dynamics of the human-environment relationship, focusing on how human behavior interacts with the built and natural environments. It examines the reciprocal influences between individuals and their surroundings, highlighting the psychological theories that inform this interplay. Through key concepts, students will understand how environmental factors shape experiences and well-being. By mastering these principles, aspiring architects will learn to design built environments that meet human needs and enhance health, comfort, and quality of life, promoting sustainable and supportive architectural solutions.			
0922326	Course Title: Theory of Digital architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		face-to-face	3
<b>Course Description:</b>			
Explores the intersection of architecture and digital media, focusing on the historical perspective of digital architecture, from early computer-aided design to contemporary explorations of algorithmic systems, machine learning, and artificial intelligence. Through key texts and precedents, students will examine the impact of digital and computational tools on design processes, the role of digital media in space production, and the potential of new technologies to challenge power structures.			
0922332	Course Title: Structures and Architectural Form	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		face-to-face	3
<b>Course Description:</b>			
An introduction to the relationship between structures and architectural form. Examines the principles of structural behavior, load distribution, and material properties as they inform design decisions. Investigates the integration of structural systems and architectural expression, highlighting the impact on aesthetics, spatial organization, and building performance. Through case studies, students understand how structures shape architectural forms that successfully balance structural integrity with architectural expression.			
0922312	Course Title: Conservation of Architectural Heritage	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		Online	3
<b>Course Description:</b>			
Introduces students to the fundamental principles of preserving architectural and cultural heritage in ancient city environments, emphasizing the social role in conservation operations. Covers topics such as documentation, field surveys, classification of buildings, and the techniques utilized in the preservation procedures for heritage sites and structures.			

14 DEC 2025



0922362	Course Title: Digital Design Media	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
<b>Course Description:</b>			
An introduction to advanced computer-driven technologies for architectural visualization, including rendering, digital photography, computer graphics animation, and interactive media. Emphasizes using motion graphics and spatial expressions to create three and four-dimensional designs. Develops skills in video editing and post-production techniques.			
0922483	Course Title: Interior Architecture	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Explores design forms and methods for creating livable environments, emphasizing the relationship between form, function, experience, and atmosphere. Covers elements like spatial planning, color, light, materials, texture, furniture design, and movement. Provides a brief overview of various design movements and current practices in interior architecture.			
0922422	Course Title: Special Topics in Architectural History and Theory	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Focuses on various architectural design, history, and theory topics that are not covered in the regular curriculum. The course content must receive approval from the departmental council. Students can receive credit for this course only once.			

### Technology

0922432	Course Title: Digital Fabrication Lab	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
Integrates digital media and fabrication techniques in building design and construction. Students will learn to model and fabricate intricate forms using various fabrication methods, including casting, 3D printing, laser cutting, and CNC milling. Through a project-based approach, students will explore and refine design concepts through iterative prototyping.			
0922333	Course Title: Fundamentals of Architectural Technology	Type of learning (face-to-face/ blended / online)	Credit Hour
<b>Prerequisite:</b> none		face-to-face	3
<b>Course Description:</b>			
Provides a comprehensive overview of the fundamental principles of architectural technology and its seamless integration with design. Emphasizes the core concepts and principles essential for developing an integrated approach to architecture, recognizing the crucial role of technology in every stage of the building			



life cycle. Explores the relationships between architecture, the natural environment, technology, and engineering, highlighting their collective contributions to enhancing human comfort and effectively controlling the built environment.

<b>0921235</b>	<b>Course Title: Surveying for Architects</b>	<b>Type of learning (face-to-face/ blended / online)</b>	<b>Credit Hour</b>
<b>Prerequisite: none</b>		face-to-face	<b>3</b>

**Course Description:**

Introduces the fundamental principles and definitions of area, units of measurement, scale, map scales, linear measurements, directions, levels, levelling, and contour lines. Covers surveying techniques and architectural documentation for both existing buildings and vacant lands. Provides instruction on calculating cut and fill quantities. Develops the skills to interpret and create topographic plans, sections, and three-dimensional models for a selected location.

<b>0922461</b>	<b>Course Title: Parametric modeling</b>	<b>Type of learning (face-to-face/ blended / online)</b>	<b>Credit Hour</b>
<b>Prerequisite: none</b>		face-to-face	<b>3</b>

Introduces parametric modeling in architectural design, covering visual programming, scripting, and simulation. Students will learn to create custom parametric models using relationships, constraints, and rules hierarchies. Through hands-on exercises and projects, students will comprehensively understand the concepts and mechanisms underlying parametric modeling and gain practical skills to apply them in design projects.

<b>0922462</b>	<b>Course Title: Virtual and Augmented Reality</b>	<b>Type of learning (face-to-face/ blended / online)</b>	<b>Credit Hour</b>
<b>Prerequisite: none</b>		face-to-face	<b>3</b>

Explores Virtual Reality (VR) and Augmented Reality (AR) technologies in architectural design. Explores immersive representation using software applications and game engines, with case examples from creative and practical contexts. Develops a strong understanding of the fundamental terminology and principles. Examines the potential applications and benefits of VR and AR in architecture engineering.

<b>0922474</b>	<b>Course Title: Architectural Project Management</b>	<b>Type of learning (face-to-face/ blended / online)</b>	<b>Credit Hour</b>
<b>Prerequisite: none</b>		face-to-face	<b>3</b>

Introduces the principles of project management with an emphasis on the construction projects management. Explores project time and cost management tools, work schedule, cost estimation and control, risk, quality insurance, safety, feasibility studies, and finance.

<b>0922353</b>	<b>Course Title: Sustainable Design Principles</b>	<b>Type of learning (face-to-face/ blended / online)</b>	<b>Credit Hour</b>
<b>Prerequisite: none</b>		face-to-face 14 DEC 2025	<b>3</b>

**Course Description:**



Explores the context, motivations, frameworks, and perspectives necessary to understand sustainability and sustainable design principles. Focuses on the design process of sustainable buildings to develop a solid foundation in sustainable design principles and reduce the environmental impact of buildings. Examines local policies and codes related to sustainable design. Explores the benchmarks and metrics employed to evaluate the successful implementation of environmental design principles.

0922433	Course Title: Special Topics in Architectural technology	Type of learning (face-to-face/ blended / online)	Credit Hour
Prerequisite: none		face-to-face	3
Focuses on various architectural technology topics that are not covered in the regular curriculum. The course content must receive approval from the departmental council. Students can receive credit for this course only once.			

#### Inclusion rates in the program:

##### A. Courses that will be taught on the principle of full online:

Total hours that will be taught on the principle of full online in this program: (16 hour).

The percentage achieved for the subjects that will be taught on the principle of full online in this program: (9 %)

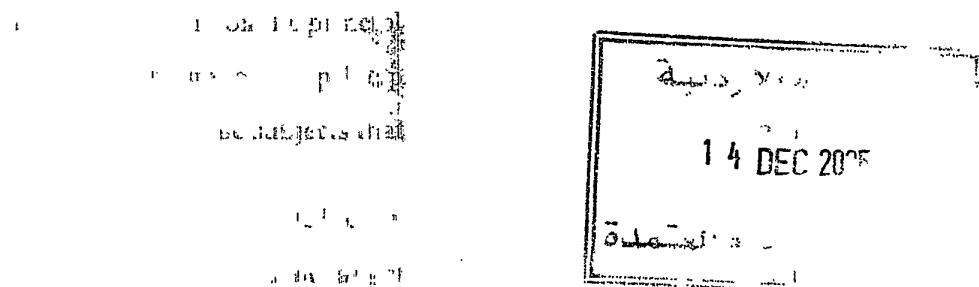
##### B. Subjects to be taught on the blended learning principle:

The total number of hours that will be taught on the principle of blended learning in this program: (36 hour)

Percentage achieved for subjects that will be taught on the principle of blended learning in this program: (20%)

##### C. Face-to-face learning courses:

Number of hours of face-to-face education: (126 hour).



جدول المواد الاجبارية المماثلة بعدد الساعات

2024						2005					
Course Number	اسم المادة	Course Title	Credit Hours	Course Number	اسم المادة	Course Title	Credit Hours	اسم المادة	الاجبارية	المطلوبات الاجبارية	المطلوبات الاجبارية
<b>Obligatory Courses</b>											
0902181	أسس التصميم المعماري 1	Fundamentals of architectural design (1)	4	0992121	أسسيات التصميم (1)	Basic Design (1)	4				
0902182	أسس التصميم المعماري 2	Fundamentals of architectural design (2)	4	0972122	أسسيات التصميم (2)	Basic Design (2)	4				
0902192	مهارات الاتصال المعماري 2	Visual Communication 2	3	0942115	الرسم والإظهار المعماري	Architectural Drawing and Presentation	3				
0922231	إنشاء المباني 1 (المواد والتشطيبات)	Building Construction (1) Materials and Finishes	3	0932233	إنشاء المباني 1	Building Construction (1)	3				
0921232	ميكانيكا الإنشاء ومبادئه	Structural Mechanics & Principles	3	0901242	ميكانيكا الإنشاء	Structural Mechanics	3				
0922233	إنشاء المباني 2 (الأنظمة)	Building Construction (2) Systems	3	0932234	إنشاء المباني 2	Building Construction (2)	3				

0922321	القد والتحليل المعماري	Architectural Criticism & Analysis	3	0962341	القد والتحليل المعماري	Architectural Analysis & Criticism	3
0922351	أنظمة البيئي التحكم	Environmental Control Systems II Illumination & Acoustics	3	0932371	الإضاءة والصوتيات	Illumination and Acoustics	3
0922352	أنظمة البيئي التحكم	Environmental Control Systems I Temperature & Humidity	3	0902473	التحكم البيئي	Environmental Control	3
0922331	الرسومات التفصيلية	Architectural Workshop Drawings	3	0902336	التصميمات التنفيذية	Workshop Drawings	3
0922421	العمارة الإقليمية وال محلية	Regional & Local Architecture	3	0952481	العمراء المحلية	Local Architecture	3
0944349	الأنظمة الميكانيكية المباني	Mechanical Systems for Architecture	3	0934349	تكنولوجيا البيئة المبنية	Technology of the Built Environment	3
0922441	التصميم الحضري وتنظيم الموقع	Urban Design and Site Planning	3	902457	التصميم الحضري	Urban Design	3
0902353	تشريعات المباني	Building Legislation	3	0902353	تشريعات المباني	Building Legislation	3
0922472	ممارسه المهنة وأخلاقياتها	Ethics and Professional Practice	2	0902485	ممارسه المهنة	Professional Practice	3
0922473	المواصفات وحساب الكثيارات	Specifications & Quantities	3	0902482	المواصفات وحساب الكثيارات	Specifications & Quantities	3
0922581	بحث مشروع التخرج	Graduation Project Thesis	2	0902595	بحث المشروع النهائي	Graduation Project Thesis Research	2

جدول المواد الدراسية المقترنة بعدد الساعات					
المتطلبات الاختيارية					
Elective Courses					
0922442	تشييف الموقع	Landscape Architecture	3	0902463	هندسة وتشييف الموقع
0922444	قضايا الإسكان	Housing Issues	3	0902456	قضايا الإسكان
0922448	موضوعات خاصة في الدراسات الحضرية	Special Topics in Urban studies	3	0932455	(2) التخطيط الحضري
0922324	علم النفس البيئي	Environmental Psychology	3	0932447	التصميم وعلم النفس
0922312	الحفاظ على التراث المعماري	Conservation of Architectural Heritage	3	0902459	الحفاظ على البيئة التراثية
0922483	العمران الداخلية	Interior Architecture	3	0902427	العملية الداخلية
0922432	مخابر التصنيع الرقمي	Digital Fabrication Lab	3	0902137	مشغل البناء
0922474	ادارة المشاريع	Architectural Project Management	3	0932487	إدارة المشروعات
0922433	موضوعات خاصة في تكنولوجيا العمارة	Special Topics in Architectural Technology	3	0902335	إنشاء المبني
					Building Construction (3)

جدول المواد الإختبارية غير منكافية (فيها اختلاف بعدد الساعات والخطأ الحديثة 2024 زيادة ساعة واحدة)

2024						2005					
Course Number	اسم المادة	Course Title	Credit Hours	Course Number	اسم المادة	Course Title	Credit Hours	Course Title	Credit Hours	Course Title	Credit Hours
0902191	مهارات الاتصال المعماري 1	Visual Communication 1	2	0942114 0942113	الرسم الحر / أو الرسم الحر 1	Free Hand Sketching (2) And/or Free Hand sketching (1)	1				
0902261	التصميم المعماري بالاسكوب	Computer-Aided Design in Architecture	3	932201	الرسم المعماري بالاسكوب	Computer Architectural Drawing	2				
0942223	التصميم المعماري 1	Architectural Design (1)	5	0932223	التصميم المعماري (1)	Architectural Design (1)	4				
0942224	التصميم المعماري 2	Architectural Design (2)	5	0932224	التصميم المعماري (2)	Architectural Design (2)	4				
0902291	التعبير المعماري	Architectural Representation	3	0932213	مهارات اتصال معماري	Architectural Communication Skills	2				
0952323	التصميم المعماري 3	Architectural Design (3)	5	0942323	التصميم المعماري (3)	Architectural Design (3)	4				
0952324	التصميم المعماري 4	Architectural Design (4)	5	0942324	التصميم المعماري (4)	Architectural Design (4)	4				

0922423	التصميم المعماري 5	Architectural Design (5)	5	0902423	(5) التصميم المعماري (5)	Architectural Design (5)	4
0922482	التصميم المعماري 6	Architectural Design (6)	5	0902424	(6) التصميم المعماري (6)	Architectural Design (6)	4
<b>Elective Courses</b>							
0921235	المساحة المعمارية	Surveying for Architects	3	0941283	المساحة المعمارية	Principles of Surveying for Architecture	2

Course Number	Course Title	Credit Hours	Course Number	Course Title	Credit Hours
<b>2024</b>					
0942111	تاريخ العمارة 1	2	0902243	تاريخ ونظريات العمارة (1)	3
0922211	تاريخ العمارة 2	2	0902244	تاريخ ونظريات العمارة (2)	3
0922311	العمارة المعاصرة	2	0902344	تاريخ ونظريات العمارة المعاصرة	3
0902312	العمارة الإسلامية	2	0902343	تاريخ ونظريات العمارة الإسلامية	3

0922597	تصميم مشروع التخرج	Graduation Project Design	4	0902597	العمرارة (3) تصميم المشروع النهائي	Graduation Project Design	6
0922472	ممارسة المهنة وإلacticتها	Ethics and Professional Practice	2	0902485	ممارسة مهنية	Professional Practice	3

جدول المواد الجديدة لعام 2024 ولابد لها مكافي من الخطة التدريبية 2005							
2024							
Course Number		اسم المادة	Course Title			Credit Hours	
0922212		تاريخ العمارة الحديثة	History of Modern Architecture			2	
0902325		منهجيات البحث في العمارة	Research Methods in Architecture			2	
0922361		منهجية معلومات البناء	Building Information Modelling (BIM)			3	
0962451		مباني عالية الأداء	High Performance Building			3	
0922443		نظم المعلومات الجغرافية	Geographic Information Systems			3	
0922445		الاستدامة الحضرية	Urban Sustainability			3	
0922446		الحضري التكوين تاريخ	History and theory of urban form			3	
0922447		ونظرياته التخطيط والإدارة الحضرية	Urban Planning & Development Management			3	
0962321		منهجية التصميم المعماري وبرمجة	Architectural design methods & Programming			3	
0922322		نظريات العمارة	Theory of architecture			3	
0922443		نظم المعلومات الجغرافية	Geographic Information Systems			3	
0922445		الاستدامة الحضرية	Urban Sustainability			3	

0922446	تاريخ التكوين الحضري ونظرياته	History and theory of urban form	3
0922447	التنظيم والإدارة الحضرية	Urban Planning & Development Management	3
0962321	منهجية التصميم المعماري وبرمجته	Architectural design methods & Programming	3
0922322	نظريات العمارة	Theory of architecture	3
0922326	نظريات العمارة الرقمية	Theory of Digital architecture	3
0922332	التشكيل المعماري ونظم الإنشاء	Structures and Architectural Form	3
0922362	وسائل التصميم الرقمي	Digital Design Media	3
0922422	م الموضوعات ذاتية في تاريقي العمارة ونظرياتها	Special Topics in Architectural History and Theory	3
0922333	أسسيات تكنولوجيا المعماري	Fundamentals of Architectural Technology	3
0922461	المنهجية البراميرية	Parametric modelling	3
0922462	الواقع الافتراضي والمعزز	Virtual and Augmented Reality	3
0922353	مبادئ التصميم المستدام	Sustainable Design Principles	3

جدول المواد الاختبارية التي يمكن ادخالها على الخطة القديمة (ولا يوجد لها شبيه في الخطة القديمة)

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite
		Theoretical	Practical		
<b>Design, History and Theory</b>					
0962321	Architectural design methods & Programming	3	-	3	-
0922322	Theory of architecture	3	-	3	-
0922326	Theory of Digital architecture	3	-	3	-
0922332	Structures and Architectural Form	3	-	3	-
0922362	Digital Design Media	1	4	3	-
0922422	Special Topics in Architectural History and Theory	3	-	3	-
<b>Technology</b>					
0922333	Fundamentals of Architectural Technology	3	-	3	-
09221235	Surveying for Architects	1	4	3	-
0922461	Parametric modelling	0	6	3	-
0922462	Virtual and Augmented Reality	1	4	3	-
0922353	Sustainable Design Principles	3	-	3	-
0922433	Special Topics in Architectural Technology	3	-	3	-
<b>Urban Studies</b>					
0922443	Geographic Information Systems	2	2	3	-
0922445	Urban Sustainability	2	2	3	-
0922446	History and theory of urban form	3	-	3	-
0922447	Urban Planning & Development Management	3	-	3	-
0922448	Special Topics in Urban studies	3	-	3	-

المتطلبات الاختبارية المنشآتية بعد الاعمال (والمحتوى)					
جداول المواد الاختبارية المنشآتية بعد الاعمال					
المتطلبات الاختبارية					
Elective Courses					2005
2024					2005
0922442	تنسيق الموقع	Landscape Architecture	3	0902463	هندسة وتنسيق المواقع
0922444	قضايا الإسكان	Housing Issues	3	0902456	قضايا الإسكان
0922324	علم النفس البيئي	Environmental Psychology	3	0932447	التصميم وعلم النفس
0922312	الحفاظ على التراث المعماري	Conservation of Architectural Heritage	3	0902459	الحفاظ على البيئة التراثية
0922483	العمارنة الداخلية	Interior Architecture	3	0902427	العمارنة الداخلية
0922432	مخابر التصنيع الرقمي	Digital Fabrication Lab	3	0902137	مشغل المباني
0922474	إدارة الفلازات	Architectural Project Management	3	0932487	إدارة المشروعات