Architectural Engineering Department



جامعة البلقاء التطبيقية قسم هندسة العمارة

Established 1997

Curriculum for the Bachelor Degree in Architectural Engineering

Courses Description

ARE 0193	Introduction to architecture drawing	3(1-6)	
	e student to acquire basic skills in architectural drawing through a		
exercises on drawing lines, surfaces and shapes with training in engineering projections in preparation for drawing various			
architectural plans, which include plans, facades, sections and stereoscopic perspectives.			
	Prerequisite:-		
ARE 0267	Specifications, contracts, and calculation of	3(3-0)	
	quantities		
	neasurement, numbering, and detailed description of all the items of in		
	ion of buildings are presented, the technical conditions and prin		
	ccordance with the general and special technical specifications and co he establishment of architectural projects, the preparation of technical		
	ect is small in size and Learn about extrapolation of specifications and		
,, _ , f - J		quisite:ARE 0336	
BSE0102	Engineering workshop	1(0-3)	
	in engineering workshops, mechanical forming of metals, machinir	. ,	
processes, carpentry works, elect		ig operations, weiding	
		Prerequisite:-	
ARE 0209	Ethics and communication skills	3(3-0)	
	n principles of communication and interaction skills with others, as	. ,	
	others, skills of asking questions and managing dialogue, skills of		
others, skills for resolving dispu-	tes in the right way, introducing the skills of using body language as		
and interaction positive with the	others.		
		Prerequisite:-	
BSE0202	Statistics and Probabilities for Engineers	3(3-0)	
Randomness; introduction to	probability theory and probability distributions; discrete and c	3(3-0) continuous probability	
Randomness; introduction to distributions; univariate analysis	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i	3(3-0) continuous probability	
Randomness; introduction to distributions; univariate analysis	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods.	3(3-0) continuous probability ntervals and tolerance	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere	3(3-0) continuous probability ntervals and tolerance equisite:30202101	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression ana BSE0401	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0)	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0)	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation.	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth,	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite:	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs.	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1)	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3)	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191 This course aims to understand to	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1) the artistic and architectural elements of their size, texture, colors, and	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191 This course aims to understand to their formation and to learn way	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1)	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in s, bodies, metal blocks	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191 This course aims to understand to their formation and to learn way	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1) the artistic and architectural elements of their size, texture, colors, and rs of expressing them by hand drawing, as well as how to draw plants ferent colored pencils, and to introduce the mechanisms of enlarging	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in s, bodies, metal blocks	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191 This course aims to understand their formation and to learn way and people using pencil and diff	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1) the artistic and architectural elements of their size, texture, colors, and rs of expressing them by hand drawing, as well as how to draw plants ferent colored pencils, and to introduce the mechanisms of enlarging	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in s, bodies, metal blocks	
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Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191 This course aims to understand their formation and to learn way and people using pencil and dif through individual and group pra ARE 0190 This course aims to study digit architectural forms in particular,	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1) the artistic and architectural elements of their size, texture, colors, and rs of expressing them by hand drawing, as well as how to draw plants ferent colored pencils, and to introduce the mechanisms of enlarging actical exercises. Free Hand drawing (2) al photography and the fields that it enables to display artistic form as well as presenting the principles of two- and three- dimensional con-	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in s, bodies, metal blocks and projecting scenes Prerequisite:- 1(0-3) nations in general and mposition and building	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeri annual worth, internal rate of retu ARE 0191 This course aims to understand to their formation and to learn way and people using pencil and dif through individual and group pra ARE 0190 This course aims to study digit architectural forms in particular, models of abstract shapes. In a	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1) the artistic and architectural elements of their size, texture, colors, and s of expressing them by hand drawing, as well as how to draw plants ferent colored pencils, and to introduce the mechanisms of enlarging incical exercises. Free Hand drawing (2) al photography and the fields that it enables to display artistic form as well as presenting the principles of two- and three- dimensional con- ddition to studying architectural display using the technique of per	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in s, bodies, metal blocks and projecting scenes Prerequisite:- 1(0-3) nations in general and mposition and building	
Randomness; introduction to distributions; univariate analysis limits; correlation; regression and BSE0401 Engineering Economy: engineeria annual worth, internal rate of retuinannual worth internation and to learn way and people using pencil and difference of the rate of retuinannual w	probability theory and probability distributions; discrete and c s; decision theory (Bays' theorem); hypothesis testing; confidence i alysis; analysis of variance; time series; nonparametric methods. Prere Engineering economy ng economic concepts; interest formulas; decision making using prese urn and benefit- cost ratio methods; payback analysis; depreciation. Prerequisite: Free Hand drawing (1) the artistic and architectural elements of their size, texture, colors, and rs of expressing them by hand drawing, as well as how to draw plants ferent colored pencils, and to introduce the mechanisms of enlarging actical exercises. Free Hand drawing (2) al photography and the fields that it enables to display artistic form as well as presenting the principles of two- and three- dimensional con-	3(3-0) continuous probability ntervals and tolerance equisite:30202101 3(03-0) nt worth, future worth, passing 80 Cr. Hrs. 1(0-3) d materials involved in s, bodies, metal blocks and projecting scenes Prerequisite:- 1(0-3) nations in general and mposition and building	

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ARE 0185	Introduction to Architectural Design (1)	3(1-6)
This course aims to introduce the basic principles and methodology in design. The course develops ideas and skills in creating		
two- and three-dimensional abstract shapes in addition to building models to implement the elements of various architectural		
and artistic formations.		
		Prerequisite:-
ARE 0186	Introduction to Architectural Design (2)	3(1-6)
	ign skills, as it reviews the steps of the design process with emphasis space, containment, and spatial relationships with each other. It revi	
	ansforms them into meaning, function, and construction, with linking	
	and documenting existing buildings. At the end of the course, the stude	
building on one of the flat sites.		
	Prere	quisite:-ARE0185
ARE 0192	Architectural drawing	3(1-6)
	ion in drawing ,architectural projection, engineering perspective, de	
	ective, interior and exterior perspective with various architectural draw	
configurations.	ling them on different projections, projecting buildings in their variou	us shapes and multiple
Configurations.	Prerec	uisite: ARE 0193
ARE 0268	Computer drawing (2)	3(1-6)
	by to use advanced computer programs in drawing and outputting arc	
	showing them using different materials and appropriate lighting in a	
	e end of the course, the student will be able to produce an integrated a	1 5 6
•	chniques necessary to produce two-dimensional working drawings a	and three dimensional
rendering	D	uisite: ARE 0267
	Prarac	
A DE 0201		1
ARE 0281	Architectural design (1)	4(0-12)
Introduction to engineering eco	Architectural design (1) nomics principles, interest equations, making economic decisions u	4(0-12) sing the present value
Introduction to engineering eco	Architectural design (1)	4(0-12) sing the present value
Introduction to engineering ecc method, future value, annual reg	Architectural design (1) momics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti	4(0-12) sing the present value
Introduction to engineering ecc method, future value, annual reg capital, inflation.	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerect	4(0-12) sing the present value me required to recover
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280	Architectural design (1) momics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerect Architectural design (2)	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present value
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present valueime required to recover
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation.	Architectural design (1) promics principles, interest equations, making economic decisions u pular value, internal return ratio and cost-to-cost ratio, calculating the time Prerection Architectural design (2) promics principles, interest equations, making economic decisions u pular value, internal return ratio and cost-to-cost ratio, calculating the time Prerection Architectural design (2)	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present valueime required to recoverquisite: ARE 0281
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1)	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present valueime required to recoverquisite: ARE 02813(2-3)
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t	Architectural design (1) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) he basic information for building construction, studying the various	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present valueime required to recoverquisite: ARE 02813(2-3)parts and parts of the
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation	Architectural design (1) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) he basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the	4(0-12)sing the present valueime required to recoveruisite: ARE 01844(0-12)sing the present valueime required to recoveruisite: ARE 02813(2-3)parts and parts of themain elements such as
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation walls and roofs (vaults and sloping)	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerect Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerect Construction of buildings (1) he basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the ing) and floors, in addition to explaining the properties of natural build	4(0-12)sing the present valueime required to recoveruisite: ARE 01844(0-12)sing the present valueime required to recoveruisite: ARE 02813(2-3)parts and parts of themain elements such asing materials: strength,
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation walls and roofs (vaults and slopp cohesion. , Thermal conductivit	Architectural design (1) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) he basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present valueime required to recoverquisite: ARE 02813(2-3)parts and parts of themain elements such asling materials: strength,cement, reinforced and
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundative walls and roofs (vaults and slop) cohesion. , Thermal conductivitit regular concrete, wood, glass, foundations and their types: com	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) he basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the ing) and floors, in addition to explaining the properties of natural build y, porosity, and basic building materials: stone, bricks, all kinds of of plastic materials, and construction methods: site preparation, soil tinuous, shallow and deep (pegs), Bases, settlements, insulation, and	4(0-12)sing the present valueime required to recoverquisite: ARE 01844(0-12)sing the present valueime required to recoverquisite: ARE 02813(2-3)parts and parts of themain elements such asling materials: strength,cement, reinforced andinvestigation, works,
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Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation walls and roofs (vaults and slop cohesion. , Thermal conductivitit regular concrete, wood, glass, foundations and their types: con columns, bridges, concrete roof to ARE 0232	Architectural design (1) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerect Architectural design (2) promics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerect Construction of buildings (1) the basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the ing) and floors, in addition to explaining the properties of natural build y, porosity, and basic building materials: stone, bricks, all kinds of of plastic materials, and construction methods: site preparation, soil tinuous, shallow and deep (pegs), Bases, settlements, insulation, and slabs, exterior and interior walls, stairs and elevators. Construction of buildings (2)	4(0-12) sing the present value ime required to recover quisite: ARE 0184 4(0-12) sing the present value ime required to recover quisite: ARE 0281 3(2-3) parts and parts of the main elements such as ling materials: strength, cement, reinforced and investigation, works, structural construction: Prerequisite: - 3(2-3)
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation walls and roofs (vaults and slop cohesion., Thermal conductivitit regular concrete, wood, glass, foundations and their types: con columns, bridges, concrete roof for ARE 0232 The course aims to study archited	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) the basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the ing) and floors, in addition to explaining the properties of natural build y, porosity, and basic building materials: stone, bricks, all kinds of of plastic materials, and construction methods: site preparation, soil tinuous, shallow and deep (pegs), Bases, settlements, insulation, and slabs, exterior and interior walls, stairs and elevators. Construction of buildings (2) ectural finishes and fragments, cladding materials and their types in arc	4(0-12) sing the present value ime required to recover quisite: ARE 0184 4(0-12) sing the present value ime required to recover quisite: ARE 0281 3(2-3) parts and parts of the main elements such as ing materials: strength, cement, reinforced and investigation, works, structural construction: Prerequisite: - 3(2-3) hitectural construction,
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation walls and roofs (vaults and slopi cohesion., Thermal conductiviti regular concrete, wood, glass, foundations and their types: con columns, bridges, concrete roof f ARE 0232 The course aims to study archite major finishes for ceilings, floor	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) he basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the ing) and floors, in addition to explaining the properties of natural build y, porosity, and basic building materials: stone, bricks, all kinds of of plastic materials, and construction methods: site preparation, soil tinuous, shallow and deep (pegs), Bases, settlements, insulation, and slabs, exterior and interior walls, stairs and elevators. Construction of buildings (2) retural finishes and fragments, cladding materials and their types in arc ors and main walls, kitchens, bathrooms, mangroves, iron, aluminum	4(0-12) sing the present value ime required to recover quisite: ARE 0184 4(0-12) sing the present value ime required to recover quisite: ARE 0281 3(2-3) parts and parts of the main elements such as ling materials: strength, cement, reinforced and investigation, works, structural construction: Prerequisite: - 3(2-3) hitectural construction, and plastic works (all
Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0280 Introduction to engineering ecc method, future value, annual reg capital, inflation. ARE 0223 The course aims to introduce t building structure from foundation walls and roofs (vaults and slopic cohesion. , Thermal conductivitit regular concrete, wood, glass, foundations and their types: con columns, bridges, concrete roof a ARE 0232 The course aims to study archite major finishes for ceilings, floor kinds of windows and doors and	Architectural design (1) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Architectural design (2) nomics principles, interest equations, making economic decisions u ular value, internal return ratio and cost-to-cost ratio, calculating the ti Prerece Construction of buildings (1) the basic information for building construction, studying the various ons to roofs in terms of construction methods, as well as reviewing the ing) and floors, in addition to explaining the properties of natural build y, porosity, and basic building materials: stone, bricks, all kinds of of plastic materials, and construction methods: site preparation, soil tinuous, shallow and deep (pegs), Bases, settlements, insulation, and slabs, exterior and interior walls, stairs and elevators. Construction of buildings (2) ectural finishes and fragments, cladding materials and their types in arc	4(0-12) sing the present value ime required to recover quisite: ARE 0184 4(0-12) sing the present value ime required to recover quisite: ARE 0281 3(2-3) parts and parts of the main elements such as ling materials: strength, cement, reinforced and investigation, works, structural construction: Prerequisite: - 3(2-3) hitectural construction, and plastic works (all types, and construction

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Prerequisite: ARE 0223				
ARE 0215	History and Theories of Architecture (1)	3(3-0)		
	nent of the art of architecture and construction across ancient civilizat			
Mesopotamia, Greco Roman, and also the focus is on architectural analyzes of models of famous historical buildings and the				
	rchitectural character of some historical architectural features and lin			
	usions in architectural design and presentation of opinions The theori architecture. This course introduces the development of Islamic archi			
	personality and the cultural heritage of the architecture of Islamic			
	lationships that made architecture in the Islamic world the most su			
	udy and analysis of Islamic historical and heritage building models	for their compatibility		
and focus on theories Related.				
		Prerequisite: -		
ARE 0298	Survey principles for architecture students	2(1-3)		
	urement and correction, reference surfaces, angle and theodolite			
	angle measurement and correction, topographic surveying and cont ng areas and volumes in engineering projects.	our lines, field lifting		
includes and techniques, incasure	ing areas and volumes in engineering projects.	Prerequisite: -		
ARE 0381	Architectural design (3)	4(0-12)		
	bds of integrated programming for an architectural project and how to	· · ·		
	ning specific projects (public buildings) and programs of medium co			
	e, provided that these buildings contain jobs Different and multiple, w			
	focus is on exploring architectural solutions through a systematic and			
	based on analytical conclusions at the different levels of the proj			
	ns and functional relationships and dealing with the data of the soc	cial and psychological		
environment Behavioral and ecor	nomical influencing architectural design.			
		uisite: ARE 0280		
ARE 0380	Architectural design (4)	4(0-12)		
	roduced to how to deal with architectural heritage and architectural			
	wo projects, each consisting of a building or a group of buildings wi in composition. The first project focuses on the aesthetic, social and for			
	d to the heritage and the local Islamic Arab architectural identity, ac			
	g environment of the project, and the focus is on studying some of the			
details of this project. As for the second project, the focus is on philosophical and intellectual trends, architectural currents,				
and the 9 architectural schools (A	· · · · · · · · · · · · · · · · · · ·	and the 9 architectural schools (Architectural Trends and Movements).		
	Prereg			
ARE 0323		uisite: ARE 0381		
	Behavior and the built environment	3(3-0)		
This course means defining the e	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental,	3(3-0) spatial, emotional and		
This course means defining the e social behavior, the concept of	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis	3(3-0) spatial, emotional and for designing human		
This course means defining the e social behavior, the concept of environments, and studying the	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, pr	3(3-0) spatial, emotional and for designing human rivacy, spatial control,		
This course means defining the e social behavior, the concept of environments, and studying the	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, pr mpact on the place, while conducting field studies and surveys to deep	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea.		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, prepared mpact on the place, while conducting field studies and surveys to deep Prerection	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, pri- mpact on the place, while conducting field studies and surveys to deep Prerection Executive designs	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6)		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334 This course introduces the prepar	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, prepared mpact on the place, while conducting field studies and surveys to deep Prerection	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6) ts detailed appendices,		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334 This course introduces the prepar and the link between design and	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, pr mpact on the place, while conducting field studies and surveys to deep Prerec Executive designs ation of drawings and executive designs for an integrated project and i implementation, to produce it according to technical principles and ed in Jordan and the requirements of the Jordanian building code.	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6) ts detailed appendices, take into account the		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334 This course introduces the prepar and the link between design and professional requirements follow	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, pri- mpact on the place, while conducting field studies and surveys to deep Prerece Executive designs ation of drawings and executive designs for an integrated project and i implementation, to produce it according to technical principles and ed in Jordan and the requirements of the Jordanian building code. Prerece	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6) ts detailed appendices, take into account the quisite: ARE0232		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334 This course introduces the prepar and the link between design and professional requirements follow ARE 0337	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, preserved Preceventive designs ation of drawings and executive designs for an integrated project and i mplementation, to produce it according to technical principles and ed in Jordan and the requirements of the Jordanian building code. Preceventive designs Construction Mechanics	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6) ts detailed appendices, take into account the quisite: ARE0232 3(3-0)		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334 This course introduces the prepar and the link between design and professional requirements follow ARE 0337 This course specializes in underst	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, present on the place, while conducting field studies and surveys to deep Preree Executive designs ation of drawings and executive designs for an integrated project and it implementation, to produce it according to technical principles and ed in Jordan and the requirements of the Jordanian building code. Preree Construction Mechanics tanding forces, compounds, torque, rigid and elastic body, and stabil	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6) ts detailed appendices, take into account the quisite: ARE0232 3(3-0) ity in two dimensions,		
This course means defining the e social behavior, the concept of environments, and studying the safety, social interaction and its in ARE 0334 This course introduces the prepar and the link between design and professional requirements follow ARE 0337 This course specializes in unders types of anchors, free-body diag	Behavior and the built environment nvironment as a human behavioral content and the concepts of mental, the unity of place and its association with behavior as a basis concept of sensory and mental perception, its meanings, symbols, preserved Preceventive designs ation of drawings and executive designs for an integrated project and i mplementation, to produce it according to technical principles and ed in Jordan and the requirements of the Jordanian building code. Preceventive designs Construction Mechanics	3(3-0) spatial, emotional and for designing human rivacy, spatial control, en this idea. quisite: ARE0232 3(1-6) ts detailed appendices, take into account the quisite: ARE0232 3(3-0) ity in two dimensions, ernal forces in trusses,		

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under the influence of different r		
Prerequisite: 030201101, 030202102		
ARE 0336	Introduction to structural design	3(3-0)
This course specializes in the structural characteristics of concrete, the distribution of adequate stress stress, the design of reinforced concrete sections to resist bending, the rectangular sections and the T- shaped sections, the design of one-way concrete slabs, the design of concrete columns for pivot works, the design of single concrete foundations, as well as the understanding of sections and standard steel connections and the design of parts Steel which are subjected to tensile and bending stresses and shear.		
	Prereg	uisite: ARE 0337
ARE 0368	Building modeling BIM	2(0-6)
detailing To be applied in an inter- transformed Into a computerized (Rivet), so that the construction on the system, including topogra and walls with its different layer electromechanical systems in	whedge and skills that students have accumulated in design, constru- egrated project on real land. A previously completed preliminary archinal system by the Building Information Modeling System (BIM) And it system to be used is approved in coordination with students Civil eng aphy, excavations, bases, columns, bridges and roofs And the exteriors, stairs, windows, doors, floors and insulation Finishes and furniture, coordination with the students of these Majors. The course including illation, cost calculation and preparation of tables Relevant to follow up	tectural design is being s supporting programs ineering, and raising it r and interior surfaces in addition to all this, cludes identifying the
	Prereg	uisite: ARE 0268
ARE 0339	Sanitary, Heating, and air conditioning systems	3(3-0)
hot water systems, sewage syste treatment. This course presents Identification of heating system	in sanitary installations in buildings, sanitary parts, their types and me ms, rainwater drainage system, fire systems in buildings, drinking wa the methods of heat transfer to and from buildings and the basic de s in buildings by water or hot air, as well as the methods of air exc of devices used, insulation methods and materials used in buildings.	ter, specifications, and finitions related to HI. hange, ventilation and
		quisite: ARE0232
ARE 0481	Architectural design (5)	4(0-12)
well as providing basic servic environmental physics, studying	sign of a complex building in terms of requirements, functions, relatives such as heating, cooling and acoustics, building construction g details and materials used in building the building and focusing c and the ability to deal With these requirements based on the previous is designed during the semester.	and architecture and on integration between
		uisite: ARE 0380
ARE 0480	Architectural Design (6) (Urban Design)	4(0-12)
By making use of urban design theories, the student studies and designs a group of new interconnected buildings or the development of the group. Existing buildings consistent with the reality of the urban character. An urban environment of a special nature. This course covers methods of surveying, analysis and conclusion in studying a specific area, and the design process is sequenced from exploring problems and verifying their extent and then studying the factors associated with them in order to offer alternatives for various aspects in order to develop a comprehensive design concept. The course includes one major project during the semester.		
		uisite: ARE 0481
ARE 0423	Urban design theories	3(3-0)
understanding the personality and typological formation (shape and	theories of urban design, the methods used in visual analysis, under and the beacon of the place, and the social and economic effects on a pattern) of the city, studying social services and infrastructure in the	the morphological and
	ctiveness of services from the reality of the study Field for an existing Prerect	
	Prereg	urban area.
ARE 0448	· · · · · ·	urban area. uisite: ARE 0380 3(2-3)

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professional requirements followed in Jordan and the requirements of the Jordanian building code. This course is concerned with studying the human relationship with his environment through the ages with a focus on studying the Jordanian environment and its components of plants, as well as studying the principles, elements and theories of coordination, design, and planning of the site, in addition to understanding the influence of the environment on site coordination and design through the resulting spatial formation and its relationship to buildings and spaces And the elements, as well as the design idea of the site, the understanding of visual perception and the language of the place, it also reviews the methods and approaches of design and analysis related to the coordination of sites from the use of plants, water, rocks or the environment designed by humans as specialized design evidence. With a focus on implementation by proposing various projects that reflect local concepts and understanding the topic of site coordination as a task and allocating its requirements, procedures, methods of displaying it in drawings and others.

	Prerec	quisite: ARE 0475
ARE 0437	Lighting and acoustics	3(2-3)
This course introduces the princ	siples of natural and artificial lighting in buildings, studying the princ	ciples of acoustics and
sound insulation, as well as in	ntroducing the physical properties of sound, its propagation and	intensity, methods of
measurement and identification	of sound-absorbing materials, as well as the effect of lighting	on architectural work,
functional requirements and n	neasurement of natural and industrial lighting, sources of industrial	strial lighting, energy
rationalization and recognition O	In measuring devices.	
	Proroc	misite ARE 033/

Freequisite: ARE 055		Juisite: AKE 0554
ARE 0475	Provisions for construction and practice of the	3(3-0)
	profession	
This course examines the var	rious aspects of practicing the profession of architecture, focusing on t	the engineering, union,
legal and administrative prof	ressional aspects, and organizing the architect's relationship with the v	various individuals and
institutions involved in the construction process, in addition to the duties and responsibilities of the architect, and provides an		
analysis of the various aspect	s of the relationship between the designer, the contractor and the custom	her. The focus is on the
principles and ethics of the pr	rofession and a presentation of the importance of teamwork and the role	of individual creativity
in the development of the profession. The course also introduces the architectural aspects in terms of market requirements,		
supply, and demand for building legislation. Study laws, legislations, and building provisions in Jordanian cities and villages		
and the impact of their application	ation on architectural design with a focus on relevant environmental, socia	al, and economic data
	Duonoo	$\Delta DE 0.224$

		uisite. ARE 0554
ARE 0521	Urban planning and housing	3(2-3)
Charles the fasters on milich the	annuclear in a new in the second the development of the site	and its same success as

Study the factors on which the comprehensive planning process is based, the development of the city and its components as an organic, interconnected and integrated unit of functions, study of urban planning approaches and methods for reorganizing old areas and providing them with basic social and services, presenting housing theories in terms of design and planning, focusing on social, cultural, behavioral and environmental theories and the importance of the role Construction and financing Understanding and directing housing strategies and planning to provide housing for all segments of society with presenting local and international case studies and activating local field studies to deepen the concept of analyzing the cultural content of housing.

Prerequisite: ARE 0334

ARE 0472	Field Training	3(3-0)
The course focuses on training st	tudents in the field of architectural design, supervision and implement	ation in an engineering
office or company, according to the instructions issued by the department council.		
	Prerequisite: Fir	hishing 120 credit hours

	i i ci equisite. I m	isining 120 create nours
ARE 0583	Graduation Project (1)	2(2-0)
Choosing an integrated architectu	ral project and motivating students to deal with practical inputs i	n terms of testing the
project and the topic (preferably projec	proposed by a related party) and systematically preparing research	and dealing with and
integrated architectural programm	ing for the final architectural project and choosing a site to establish	lish the project (if not
specified) And the preparation of	f the final study to include identifying objectives, needs, method	dologies and contents,
conducting analytical studies for th	he proposed site and studying comparative cases, in addition to propo	osing design principles,
strategies and alternatives to reach	a preliminary concept for preparing the final design.	

	Prere	quisite: ARE 0480
ARE 0584	Graduation Project (2)	6(6-0)

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This course is preceded by the design of the project in which the research was prepared in the first phase, and the design includes a comprehensive analysis of the architectural idea and design philosophy, developing alternatives, evaluating them, adopting them and developing them based on the approach, idea and philosophy in which he communicates with the supervisor, as well as developing an integrated study of the internal and external space and linking design elements in the formation An integrated plastic and study of movement inside and outside the building so that the structural system and technical services are integrated with the integrated architectural and environmental design, while providing all the architectural drawings that express the design idea and the model of the project, and the course includes several external and internal arbitration stages.

Prerequisite: ARE 0583		
ARE 0535	Advanced construction systems	3(2-3)
This course introduces the digital construction systems and their impact on the architectural void in terms of ideas, meanings, and integration in the production of buildings, as well as explaining the parts of modern structural structures through the study of surface and linear formations: bridge and column formations, various trusses (spatial and fondant and polygonal structures), and flat space structures, And box structures with vertical and horizontal slabs, curved shell shells (double and single bending), tension films and inflatable structures. As well as the development of the prefabricated building industry and methods of construction and roofing.		
	Prereg	uisite: ARE 0232
ARE 0535	Special topics in architecture	3(3-0)
A course related to various er requirements of the two required	*	-
	Prerequisite: As determined by the	
ARE 0589	Interior Design	3(2-3)
within the broader umbrella of a	tance of designing the internal environment of buildings as a comple rchitecture and the effect of interior design on user comfort. It also re- and focuses on the importance of harmony in interior elements that reatments, ceilings, and floors	views the development
	Prereg	uisite: ARE 0280
ARE 0550	Sustainable architecture	3(2-3)
The course deals with renewable energy sources that can be used in buildings such as solar energy wind energy and geothermal and tidal and wave energy as sources. Available alternative energy in Jordan. Study different architectural treatments to increase the effectiveness of a lighting system, such as The use of optical fibers and ventilation in buildings such as air sheds .During a series of lectures on theory and practical experiments, he introduces building materials and architectural solutions that will reduce Of energy consumption in buildings		
		uisite: ARE 0555
ARE 0542	Management and preservation of heritage resources	3(3-0)
The basic principles of the process of management and preservation of the architectural and cultural heritage in ancient cities, the processes of documenting field surveys, documentary photography, classification of buildings and techniques used in preservation processes, with the study of selected examples of the process of preserving architectural heritage from Jordan, the Arab world and foreign countries. The course includes an applied field study of the meanings Heritage and preservation. Prerequisite: ARE 0315		
ARE 0429	Architectural criticism and analysis	3(3-0)
This course is concerned with presenting and criticizing contemporary architecture theories and evaluating the ideological and philosophical principles, values and principles influencing and related to the contemporary architectural trend and contradictory goals and orientations, with the help of presenting with examples of the works of distinguished architects and the proposals of critical architects influencing contemporary architecture trends Prerequisite: ARE0315		
ARE 0555	Environmental control	3(3-0)
	of energy (sun, wind, etc.) and ways to benefit from them in arch nent, site coordination and urban planning, the course includes	

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contemporary designs that depend on natural sources of energy and natural architectural treatments systems to control an environment Buildings (heat, humidity, ventilation, lighting, ... etc.).

Prerequisite: ARE0339		
ARE 0435	Geographic information systems and their	3(2-3)
	application	
Characteristics and concepts of	f geographic information systems, spatial information management	t systems, design and
implementation of geographic	information systems and their role in digital maps, spatial info	ormation management,
projections and coordinates, lan	d information modeling, spatial representation (point system and gr	rid system), coordinate
processing, input and output ope	erations, file storage, Database management systems and statistical di	istributions. Method of
selecting the hardware and soft	tware needed for geographic information systems such as: (MicroS	Station / Geographic's,
	use the main tools in the software, the coordinate system and projecti	
maps and tables of GIS, analyzin	ng metadata. And spatial through various operations, producing maps,	exercises and projects
covering all topics of geographic	information systems (MicroStation / Geographic's, Geofeedia, ArcGIS	S): Jy play
	Prerec	uisite: ARE 0298