



College of  
**Engineering and Architecture**

Department of  
**Architecture**

**Course Specifications of  
Islamic Architecture  
Programme**



# **Course Specifications of Islamic Architecture Programme**

2022

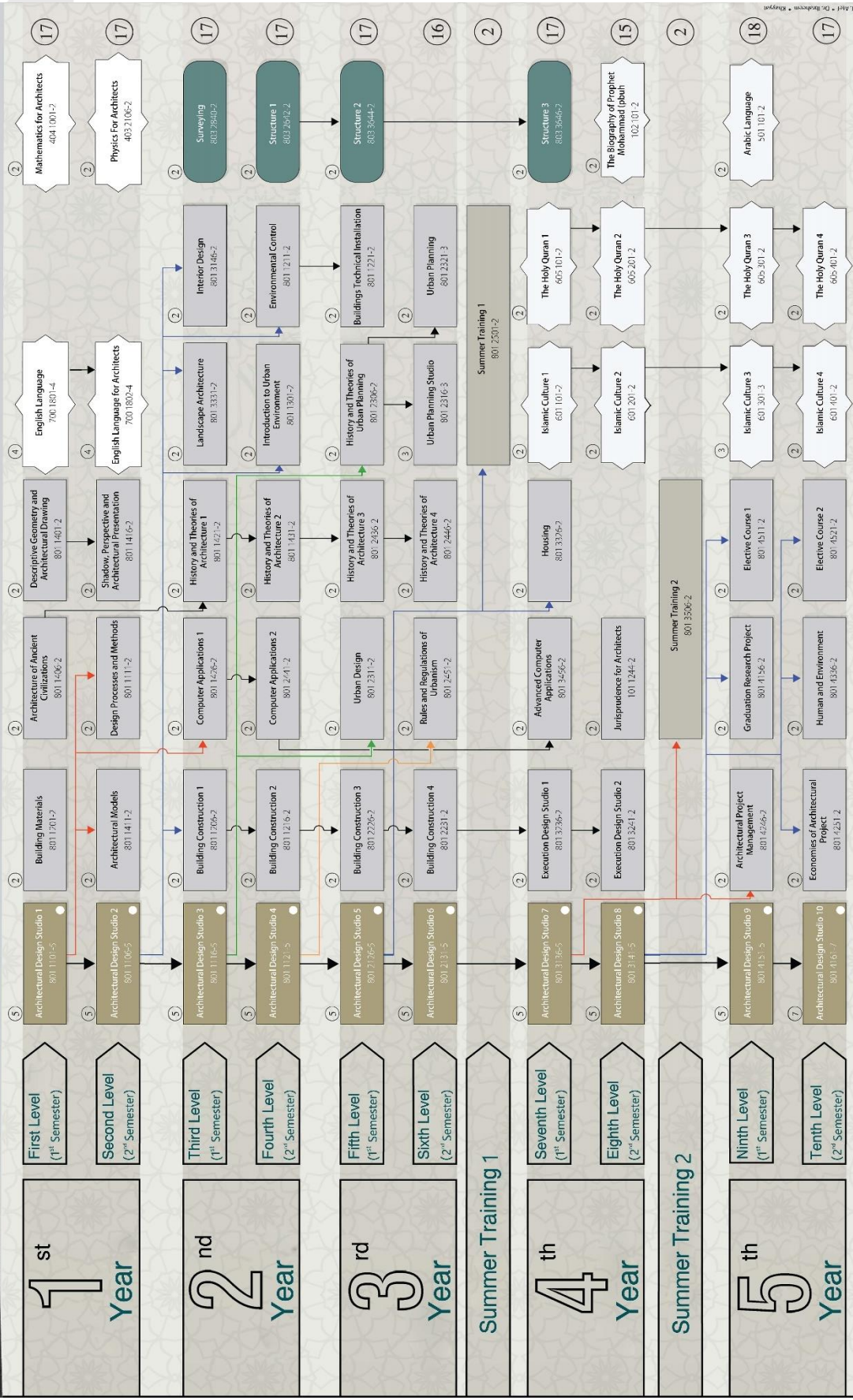


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# **Credit Hours and ECTS**



level	Course Code	Course Title	Prerequisite	Activity					Credit Hours	(15 weeks) - Hrs / term				(10 weeks) - Hrs / term			
				Lecture	Practical	Studio	Project	Training		Contact	self study	Total	ECTS	Contact	self study	Total	ECTS
1	8011101-5	Architectural Design Studio 1	-	-	-	10	-	-	5	150	210	360	13	100	140	240	8
1	8011401-2	Descriptive Geometry and Architectural drawing	-	1	2	-	-	-	2	45	75	120	4	30	60	90	3
1	8011406-2	Architecture of Ancient Civilizations	-	2	-	-	-	-	2	30	45	75	3	20	40	60	2
1	8011201-2	Building Materials	-	2	-	-	-	-	2	30	30	60	2	20	40	60	2
1	7001801-4	English Language	-	10	-	-	-	-	4	150	15	165	6	100	20	120	4
1	4041001-2	Mathematics for Architects	-	2	-	-	-	-	2	30	30	60	2	20	10	30	1
2	8011106-5	Architectural Design Studio 2	Architectural Design Studio 1	-	-	10	-	-	5	150	210	360	13	100	140	240	8
2	8011416-2	Shadow, Perspective and Architectural Presentation	Descriptive Geometry & Arch.	1	2	-	-	-	2	45	60	105	4	30	60	90	3
2	8011111-2	Process and Methods of Design	Architectural Design Studio 1	2	-	-	-	-	2	30	45	75	3	20	40	60	2
2	8011411-2	Architectural Models	Architectural Design Studio 1	1	1	-	-	-	2	30	60	90	3	20	70	90	3
2	7001802-4	English Language for Architects	English Language	8	-	-	-	-	4	120	30	150	5	80	10	90	3
2	4032106-2	Physics For Architects	-	2	-	-	-	-	2	30	30	60	2	20	10	30	1
3	8011116-5	Architectural Design Studio 3	Architectural Design Studio 2	-	-	10	-	-	5	150	195	345	12	100	110	210	7
3	8011206-2	Building Construction 1	Architectural Design Studio 2	1	2	-	-	-	2	45	60	105	4	30	60	90	3
3	8011421-2	History and Theories of Architecture 1	Architecture of Ancient	2	-	-	-	-	2	30	30	60	2	20	40	60	2
3	8032840-2	Surveying	-	1	3	-	-	-	2	60	30	90	3	40	20	60	2
3	8011426-2	Computer Applications 1	Architectural Design Studio 1	1	2	-	-	-	2	45	45	90	3	30	30	60	2
3	8013146-2	Interior Design	-	2	-	-	-	-	2	30	60	90	3	20	40	60	2
3	8013331-2	Landscape Architecture	-	2	-	-	-	-	2	30	60	90	3	20	40	60	2
4	8011121-5	Architectural Design Studio 4	Architectural Design Studio 3	-	-	10	-	-	5	150	180	330	12	100	110	210	7
4	8011216-2	Building Construction 2	Building Construction 1	1	2	-	-	-	2	45	60	105	4	30	60	90	3
4	8011431-2	History and Theories of Architecture 2	History and Theories of	2	-	-	-	-	2	30	30	60	2	20	40	60	2
4	8032642-2	Structure 1	-	2	-	-	-	-	2	30	45	75	3	20	10	30	1
5	8012441-2	Computer Applications 2	-	1	2	-	-	-	2	45	45	90	3	30	60	90	3
4	8011301-2	Introduction to Urban Environment	Architectural Design Studio 2	2	-	-	-	-	2	30	45	75	3	20	40	60	2
4	8011211-2	Environmental Control	-	2	-	-	-	-	2	30	45	75	3	20	40	60	2
5	8012126-5	Architectural Design Studio 5	Architectural Design Studio 4	-	-	10	-	-	5	150	180	330	12	100	110	210	7
5	8012226-2	Building Construction 3	Building Construction 2	1	2	-	-	-	2	45	45	90	3	30	60	90	3
5	8012436-2	History and Theories of Architecture 3	History and Theories of	2	-	-	-	-	2	30	30	60	2	20	40	60	2
5	8012306-2	History and Theories of Urban Planning	Architectural Design Studio 3	2	-	-	-	-	2	30	30	60	2	20	40	60	2
5	8012311-2	Urban Design	Architectural Design Studio 3	2	-	-	-	-	2	30	30	60	2	20	40	60	2
5	8033644-2	Structure 2	Structure 1	2	-	-	-	-	2	30	30	60	2	20	10	30	1
5	8011221-2	Buildings Technical Installation	-	2	-	-	-	-	2	30	30	60	2	20	10	30	1
6	8012131-5	Architectural Design Studio 6	Architectural Design Studio 5	-	-	10	-	-	5	150	150	300	11	100	110	210	7
6	8012231-2	Building Construction 4	Building Construction 3	1	2	-	-	-	2	45	45	90	3	30	60	90	3
6	8012446-2	History and Theories of Architecture 4	History and Theories of	2	-	-	-	-	2	30	30	60	2	20	40	60	2
6	8012316-3	Urban Planning Studio	History and Theories of Urban	-	-	6	-	-	3	90	90	180	6	60	60	120	4
6	8012321-3	Urban Planning	History and Theories of Urban	2	-	-	-	-	2	30	15	45	2	20	10	30	1
6	8012451-2	Rules and Regulations of Urbanism	Architectural Design Studio 4	2	-	-	-	-	2	30	15	45	2	20	10	30	1
6	8012501-2	Summer Training 1	Architectural Design Studio 5	-	-	-	-	30	2	450	0	450	9	120		120	4
7	8013136-5	Architectural Design Studio 7	Architectural Design Studio 6	-	-	10	-	-	5	150	180	330	12	100	140	240	8
7	8013236-2	Execution Design Studio 1	Building Construction 4	-	-	4	-	-	2	60	60	120	4	40	80	120	4
7	8013326-2	Housing	Architectural Design Studio 5	2	-	-	-	-	2	30	30	60	2	20	40	60	2
7	8013456-2	Advanced Computer Applications	Computer Applications 2	1	2	-	-	-	2	45	30	75	3	30	60	90	3
7	8033646-2	Structure 3	Structure 2	2	-	-	-	-	2	30	30	60	2	20	10	30	1
7	605101-2	The Holy Quran 1	-	2	-	-	-	-	2	30	30	60	2	20	10	30	1
7	601101-2	Islamic Culture 1	-	2	-	-	-	-	2	30	15	45	2	20	10	30	1
8	8013141-5	Architectural Design Studio 8	Architectural Design Studio 7	-	-	10	-	-	5	150	195	345	12	100	140	240	8
8	8013241-2	Execution Design Studio 2	Execution Design Studio 1	-	-	4	-	-	2	60	60	120	4	40	80	120	4
8	102101-2	The Biography of Prophet Mohammad (pbuh)	-	2	-	-	-	-	2	30	30	60	2	20	10	30	1
8	1011244-2	Jurisprudence for Architects	-	2	-	-	-	-	2	30	30	60	2	20	10	30	1
8	605201-2	The Holy Quran 2	The Holy Quran 1	2	-	-	-	-	2	30	30	60	2	20	10	30	1
8	601201-2	Islamic Culture 2	Islamic Culture 1	2	-	-	-	-	2	30	15	45	2	20	10	30	1
8	8013506-2	Summer Training 2	Architectural Design Studio 7	-	-	-	-	30	2	450	0	450	9	0	120	120	4
9	8014151-5	Architectural Design Studio 9	Architectural Design Studio 8	-	-	10	-	-	5	150	225	375	13	100	170	270	9
9	8014156-2	Graduation Project Research	Architectural Design Studio 8	-	-	-	2	-	2	30	90	120	4	20	100	120	4
9	8014246-2	Architectural Project Management	Architectural Design Studio 7	2	-	-	-	-	2	30	45	75	3	20	40	60	2
9	605301-2	The Holy Quran 3	The Holy Quran 2	2	-	-	-	-	2	30	30	60	2	20	10	30	1
9	601301-3	Islamic Culture 3	Islamic Culture 2	3	-	-	-	-	3	45	15	60	2	30	0	30	1
9	501101-2	Arabic Language	-	2	-	-	-	-	2	30	15	45	2	20	10	30	1
9	8014511-2	** Elective Course 1	Architectural Design Studio 8	2	-	-	-	-	2	30	60	90	3	20	40	60	2
10	8014161-7	Architectural Design Studio 10	Architectural Design Studio 9	-	-	14	-	-	7	210	300	510	18	140	220	360	12
		Graduation Project Research															0
10	8014251-2	Economics of Architectural Projects	Architectural Design Studio 8	2	-	-	-	-	2	30	45	75	3	20	40	60	2
10	8014336-2	Human and Environment	Architectural Design Studio 8	2	-	-	-	-	2	30	45	75	3	20	40	60	2
10	605401-2	The Holy Quran 4	The Holy Quran 3	2	-	-	-	-	2	30	30	60	2	20	10	30	1
10	601401-2	Islamic Culture 4	Islamic Culture 3	2	-	-	-	-	2	30	15	45	2	20	10	30	1
10	8014521-2	** Elective Course 2	Architectural Design Studio 8	2	-	-	-	-	2	30	60	90	3	20	40	60	2



**Specifications of**  
**Level 1**  
Courses



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011101-5		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 1	Year: 1	
Responsible Person	Dr. Mohamed Wahba Ibrahim		
Lecturer(s)	Dr. Mohamed Wahba Ibrahim	Dr. Mohamed Tahir Al-Jifri	
	Dr. Faisal Al-Sharif	Dr. Mohamed Bagader	
	Dr. Abdullah Bagasi	Arch. Saleh Salamah	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 14	Total 24
Credit Points	8 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is an introduction to the techniques to graphic representation in pencil, technical pen, and ink. This studio is an introduction to architectural formation. It focuses on definition of primary elements (point, line, plane and volume), visual properties of form and space (pattern and colors), proportion and scale as well as ordering principles and types of composition

### 4. Intended Learning Outcomes (ILOs)

K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.  
 S1-h Employ manual skills to develop & present projects.  
 S4-b Demonstrate mental-physical coordination in producing sketches & drawings.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-e Complete tasks under pressure & within the expected time frame.



## 5. Contents

Content	%
Introduction, Sketch training and exercises on (how to use different types of pencils).	10%
Sketch training and exercises on (how to use different types of technical pens).	10%
Visual properties of form and space with the basic elements of architectural formation (the point)	10%
The Primary elements of architectural formation, The line (The straight line, the Jagged line and curved line)	10%
Tools of architectural formation (pattern, and color etc.)	10%
The Primary elements of architectural formation (plane and volume)	10%
Composition (types of Composition; two and three dimensional).	10%
Composition (Relations of Composition; Axis, repetition, Rhythm, etc.)	10%
Composition (Methods of Composition: Symmetry and Asymmetry, etc.).	10%
Applications of Geometrical tridimensional Shapes and 3D model's project.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	10	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Oral presentations, Assignments, etc.</li> <li>• Drawing Exam</li> <li>• Oral Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

CHING, Francis D.K. (2015). Architecture, form, space & order. John Wiley & Sons, New York, USA.
Schrank, Brian. (2018), Principles of Visual Design, Color Theory, McGraw-Hill
CHING, Francis D.K. (2016), Design Drawing, John Wiley & Sons, New York, USA.
CHING, Frank, (1996) Architectural Graphics 3rd ed., Van Nostrand, New York, 1996.
CERVER, Francisco Asensio, (1999) Drawing for Beginners, Konmann Verlagsge sell schaft, Cologne, 1999.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-c																																					
S1-h																																					
S4-b																																					
V1-a																																					
V2-e																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Descriptive Geometry and Architectural drawing</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011401-2		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 1	Year: 1	
Responsible Person	Dr. Abd Al-Hafiz Al-Wafi		
Lecturer(s)	Dr. Faris Al-Saegh .....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Architectural drawing through orthographic projection is key tools for conveying design through representation on paper, and this course is the ultimate guide to mastering the manual skill. This course includes information on orthographic projection using Descriptive Geometry in relation to 3D models, explanations of scale and dimensioning. This course is an essential guide that offers a comprehensive introduction to using graphic tools and drafting conventions to translate architectural ideas into effective visual presentations.

### 4. Intended Learning Outcomes (ILOs)

K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.  
 K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.  
 S1-h Employ manual skills to develop & present projects.  
 S5-c Use mathematics to process data & information in various complex contexts, related to architecture.  
 V2-d Demonstrate persistence on achievement & distinction.

## 5. Contents

Content	%
Orthographic projection by using drawing tools and materials	10%
Architectural drafting: The line using Descriptive Geometry	10%
Architectural drawing systems: Projection drawing and Pictorial systems	10%
Multiview drawings: Plans and site plans	10%
Multiview drawings: Section	10%
Multiview drawings: Elevations	10%
Paraline drawings: Isometric drawings	10%
Architectural drawing systems: Communication design ideas	10%
Rendering context (people, furniture, vehicles, landscaping, etc.)	10%
Architectural presentations	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	1	Studio	0	Training	0
	Practical	2	Project	0	Other	
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>			<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Ching, F. (2015). Architectural Graphics. Wiley.
Hamouda, Yehia (1985) Geometric Perspective Dar Al- Maarif , Egypt

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-c																																					
K4-a																																					
S1-h																																					
S5-c																																					
V2-d																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Building Materials</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011201-2		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 1	Year: 1	
Responsible Person	Dr.Farag Zaki		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course aims to teach student how to analysis the properties of some main and secondary construction materials and evaluate which of the materials would be best to use according to its properties. Also, how its manufactured, assembled and prepared in the site such as steel, concrete, wood, red bricks, glass, etc.

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S3-b Analyze results of various experiments.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architecture of Ancient Civilizations</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011406-2		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 1	Year: 1	
Responsible Person	Dr. Ali Al-Mansoury		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces students to world architecture from prehistory times to the end of the medieval period. It helps understanding the various cultural, technological, and aesthetic aspects through history. The course focuses on the architecture in Mesopotamian, ancient Egyptian, Greek, Roman, Medieval and Romanesque to Gothic architecture.

### 4. Intended Learning Outcomes (ILOs)

- K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.
- K1-e Demonstrate an understanding of the history & theories of the built environment.
- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- S1-b Apply the knowledge of historical, social & cultural references in design.
- S3-c Apply scientific research for complex issues of the built environment.
- S4-b Demonstrate mental-physical coordination in producing sketches & drawings.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.





## Handbook of Module Specifications P37

### 1. General Information

Module Name	English Language		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	7001801-4		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 1	Year: 1	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 1	Total 11
Credit Points	4 CPs.		
Credit Hours	4 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

English Language I is a single-level, English for General Purposes (EGP) course. All students who are admitted to Bachelor in the Non-EMI Colleges (College of Islamic Economics and Finance, Department of Islamic Architecture) are required to take this course in the first semester of the first year of their program. The course is offered in 10 weeks with a 10-hour-per week teaching plan covering the four language skills. It intends to develop students' knowledge and ability of English language in all major skills which include reading, writing, listening, and speaking, as well as in sub-skills including grammar, vocabulary, and pronunciation.

### 4. Intended Learning Outcomes (ILOs)

S5-a Communicate effectively using oral & written forms.  
V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.

## 5. Contents

Content	%
Unit 1: Connections	10%
Unit 2: Work and Study	10%
Unit 3: Let's move	10%
Unit 4: Good times	10%
Unit 5: Firsts and lasts	10%
Unit 6: Buy now, pay later	10%
Unit 7: But first, food	10%
Unit 8: Trips	10%
Unit 9: Looking good, Unit 10: Risky business	10%
Unit 11: Me, online, Unit 12: Outdoors	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	10	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>			<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Clandfield, L., et al. (2019). Evolve 2 Special Edition: Student's Book with Practice Extra. Cambridge Uni. Press.

### Mapping CLOs, and ASIIN's LOs

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
S5-a																																					
V2-b																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Mathematics for Architects</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	4041001-2		
Prerequisite Course(s)	None	Code: None	
Semester Level	Level: 1	Year: 1	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 2	Total 4
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course focuses on selected topics in differentiation and Integration. It also focuses on analytic geometry which is geometry within a coordinate system. While there are many coordinate systems. This course focuses on the three most coordinate systems used in academia: Cartesian (Rectangular), Cylindrical, and Spherical.

### 4. Intended Learning Outcomes (ILOs)

- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.





**Specifications of**  
**Level 2**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011106-5		
Prerequisite Course(s)	Architectural Design Studio 1	Code: 8011101-5	
Semester Level	Level: 2	Year: 1	
Responsible Person	Dr. Mohamed Wahba Ibrahim		
Lecturer(s)	Dr. Mohamed Wahba Ibrahim	Dr. Mohamed Tahir Al-Jifri	
	Dr. Faisal Al-Sharif	Dr. Mohamed Bagader	
	Dr. Abdullah Bagasi	Arch. Saleh Salamah	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 14	Total 24
Credit Points	8 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This studio is an introduction to the fundamentals of architectural design through applying design process and methods. Students begin by studying different building types and their relationship to form and function. Finally, they apply the principles of designing housing units while keeping in mind the social and cultural aspects of the Saudi society.

### 4. Intended Learning Outcomes (ILOs)

- K1-a Demonstrate an understanding of processes & methods of design.
- K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-h Employ manual skills to develop & present projects.
- S4-b Demonstrate mental-physical coordination in producing sketches & drawings.
- V1-a Demonstrate self-discipline & punctuality.
- V2-e Complete tasks under pressure & within the expected time frame.

## 5. Contents

Content	%
Introduction and course definition	10%
Functional relationships and Principles of house design (economic level project).	10%
Geometric projection of plan and section	10%
Geometric projection of Elevation and site plan	10%
Architectural projections of elevations and isometric	10%
Elements of furnishing the architectural space of residential units (luxurious level project).	10%
Development of plan and section design.	10%
Development of Elevations design.	10%
Isometric or perspective drawing of the housing unit	10%
Following up the implementation	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	10	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	• Oral presentations, Assignments, etc. • Drawing Exam • Oral Exam			
Examination Requirements	Equipped studio			

## 8. Reading List

DE CHIARA, J., Panero, J. and Zelnik, M. (1991). Time-saver standards for interior design and space planning. New York  
 CHING, F. (1975). Architectural graphics. New York: Van Nostrand Reinhold Co. Porter, T., m  
 De Chiara, J., Panero, J., & Zelnik, M. (2011). Time-saver standards for housing and residential development. McGraw-Hill.  
 Neufert, E. and Thackara, J. (1980). Architects' data. London: Granada.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	4	5	6	7	1	2	3			
K1-a																																					
K1-c																																					
S1-a																																					
S1-h																																					
S4-b																																					
V1-a																																					
V2-e																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Shadow, Perspective and Architectural Presentation</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011416-2		
Prerequisite Course(s)	Descriptive Geometry & Arch. Drawing		Code: 8011401-2
Semester Level	Level: 2	Year: 1	
Responsible Person	Dr. Abd Al-Hafiz Al-Wafi		
Lecturer(s)	Dr. Faris Al-Saegh .....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course illustrates perspective systems and using the representation of three-dimensional architectural forms. Key concepts include one-point, two-point perspectives and techniques for drawing exterior and interior perspectives. Furthermore, the course illustrates casting shades and shadows on two- or three-dimensional drawings while using different rendering techniques such as pencils, colored pencils, markers, pens and ink, etc.

### 4. Intended Learning Outcomes (ILOs)

K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.  
 K1-f Describe the heritage of the built environment.  
 K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.  
 S1-d Apply the knowledge of bearing structure & materials selection.  
 S1-h Employ manual skills to develop & present projects.  
 V2-d Demonstrate persistence on achievement & distinction.

## 5. Contents

Content	%
Linear perspective	10%
Perspective projection and element	10%
One-point perspective system	10%
Section perspectives	10%
Two-point perspective system: measuring point method	10%
Perspective variables	10%
Inclined lines, Stairs and circles	10%
Reflections	10%
Casting shades and shadows: 2D drawings	10%
Casting shades and shadows: 3D drawings	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	1	Studio	0	Training	0
	Practical	2	Project	0	Other	
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>			<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Tasks, etc.</li> <li>• Drawing Exam</li> <li>• Drawing Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

Ching, F. (2015). Architectural Graphics. Wiley.
Koller, E. (2008). Light, Shade and Shadow. Dover Publications

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-c																																					
K1-f																																					
K1-i																																					
S1-d																																					
S1-h																																					
V2-d																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Process and Methods of Design</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011111-2		
Prerequisite Course(s)	Architectural Design Studio 1	Code: 8011101-5	
Semester Level	Level: 2	Year: 1	
Responsible Person	Dr. Amr Mohamed Al-Abasi		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course provides a deeper understanding of the process and methods applied in the architectural design. It covers the analysis of space program, site analysis, the design philosophy, design concept, and the development of human-centered design proposals. The application of this process will be on a housing unit. Students learn to build solid understanding of when and how design decisions are made in the process. They also work on developing their own visualization skills and manual sketching techniques.

### 4. Intended Learning Outcomes (ILOs)

- K1-a Demonstrate an understanding of processes & methods of design.
- K1-b Define functional requirements for different sectors of the built environment.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S5-a Communicate effectively using oral & written forms.
- V1-a Demonstrate self-discipline & punctuality.
- V1-b Demonstrate respect to different points of view.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Models</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011411-2		
Prerequisite Course(s)	Architectural Design Studio 1	Code: 8011101-5	
Semester Level	Level: 2	Year: 1	
Responsible Person	Arch. Husam Murad		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 7	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Architectural models are one of the main means by which an architect invents and develops his design. Furthermore, they serve as a bridge between the idea and its realization. This course presents the fundamentals of architectural models. Students learn how to think of and build architectural models using different materials.

### 4. Intended Learning Outcomes (ILOs)

- K1-a Demonstrate an understanding of processes & methods of design.
- K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.
- S4-b Demonstrate mental-physical coordination in producing sketches & drawings.
- S4-c Execute physical models efficiently.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-e Complete tasks under pressure & within the expected time frame.

## 5. Contents

Content	%
Model types and scale of architectural models	10%
Equipment, tools and materials of model making	10%
Model's net	10%
Cutting materials and basic assemblage	10%
Generating Ideas: Additive/Subtractive drawing strategy	10%
Working with plan and elevation drawings strategy	10%
Working with concept drawings strategy	10%
Reuse and found objects strategy	10%
Oblique folding	10%
Exploration of material behavior	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	1	Studio	0	Training	0
	Practical	1	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Tasks, etc.</li> <li>• Practical Exam</li> <li>• Final Submission of a project</li> </ul>			
Examination Requirements	Equipped Studio			

## 8. Reading List

MILLS, C. (2011). Designing with models: A Studio Guide to Arch. Process Models. John Wiley & Sons
Trudeau, N. (1995). Professional Model Making. Watson
Oswald, A. (2008). Architectural Models. Dom Publishers
Jackson, P. (2011). Folding Techniques for Designers: From Sheet to Form. Laurence King

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-a																																					
K1-c																																					
S4-b																																					
S4-c																																					
V1-c																																					
V2-e																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Physics for Architects</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	4032106-2		
Prerequisite Course(s)	-	Code: -	
Semester Level	Level: 2	Year: 1	
Responsible Person	.....		
Lecturer(s)	.....		.....
	.....		.....
	.....		.....
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 2	Total 4
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course develops scientific temper and analytic capability and helps to develop skills of critical thinking. By understanding the basic concepts and their applications in engineering technology, students will be able to solve architectural engineering problems.

### 4. Intended Learning Outcomes (ILOs)

- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.





## Handbook of Module Specifications P37

### 1. General Information

Module Name	English Language for Architects		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	7001802-4		
Prerequisite Course(s)	English Language	Code: 7001801-4	
Semester Level	Level: 2	Year: 1	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 8	Self-study 2	Total 10
Credit Points	4 CPs.		
Credit Hours	4 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is a single-level, English for General Purposes (EGP) course. All students who are admitted to Bachelor in the Non-EMI Colleges (College of Islamic Economics and Finance, Department of Islamic Architecture) are required to take this course in the second semester of the first year of their program. The course is offered in 10 weeks with a 10-hour-per week teaching plan covering the four language skills. It intends to develop students' knowledge and ability of English language in all major skills which include reading, writing, listening, and speaking, as well as in sub-skills including grammar, architectural vocabulary, and pronunciation.

### 4. Intended Learning Outcomes (ILOs)

- S5-a Communicate effectively using oral & written forms.  
V1-a Demonstrate self-discipline & punctuality.  
V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.





**Specifications of**  
**Level 3**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 3</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011116-5		
Prerequisite Course(s)	Architectural Design Studio 2	Code: 8011106-5	
Semester Level	Level: 3	Year: 2	
Responsible Person	Dr.Ali Al-Mansoury		
Lecturer(s)	Dr. Ihab Farouk Rashed	Dr.Ibrahim Boukhary	
	Dr.Abd Al-Hafiz Al-Wafi	Dr.Farag Zaki .....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 11	Total 21
Credit Points	7 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Design studios are the heart of the Architecture track. This studio is concerned with small scale public buildings such as kindergarten, restaurant, post office, bank branch, fire station, etc. Values, knowledge and skills acquired in previous courses are supplemented and enhanced and applied creatively to development phases of the project. This studio particularly enhances students' skills.

### 4. Intended Learning Outcomes (ILOs)

- K1-a Demonstrate an understanding of processes & methods of design.
- K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-c Apply the knowledge of design theories & methods.
- S1-h Employ manual skills to develop & present projects.
- S5-a Communicate effectively using oral & written forms.
- V2-d Demonstrate persistence on achievement & distinction.

## 5. Contents

Content	%
Course identification and introduction to the project.	10%
Functional relationships between the project zones.	10%
Environmental studies affecting design.	10%
Preliminary study of the project and its components	10%
Analysis of similar projects and site analysis.	10%
Design follow up plans and sections design.	10%
Development of elevations design.	10%
3d Presentation.	10%
Design Follow up.	10%
Final Project Presentation.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	10	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Oral presentations, Assignments, etc.</li> <li>• Drawing Exam</li> <li>• Oral Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

De Chiara, J., Panero, J. and Zelnik, M. (1991). Time-saver standards for interior design and space planning. New York.
Neufert, E. and Thackara, J. (1980). Architects' data. London: Granada.
Porter, T., Greenstreet, B. and Goodman, S. (1980). Manual of graphic techniques 1. New York: Scribner.
Watson, D., & Crosbie, M. (2005). Time-saver standards for architectural design. McGraw-Hill.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	4	5	6	7	1	2	3			
K1-a																																					
K1-c																																					
S1-a																																					
S1-c																																					
S1-h																																					
S5-a																																					
V2-d																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Building Construction 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011206-2		
Prerequisite Course(s)	Architectural Design Studio 2	Code: 8011106-5	
Semester Level	Level: 3	Year: 2	
Responsible Person	Dr. Mohamed Al-Jifri		
Lecturer(s)	Dr.Ehab Farouk Rashed		
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course aims to provide the student with the appropriate knowledge, skills and abilities that aim to qualify him to work as an architect, through an introduction to the concept of construction and building requirements, building systems, analysis of its architectural and structural components. This course places emphasis on the process of soil mechanics and the types of shallow and deep foundations.

### 4. Intended Learning Outcomes (ILOs)

K2-a Differentiate between various types of building materials, building technologies & structural systems.  
 K3-d Explain the nature of construction industry.  
 S1-d Apply the knowledge of bearing structure & materials selection.  
 S4-a Perform building & execution drawings efficiently.  
 S5-b Effectively create various technical documentations.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.





## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>History and Theories of Architecture 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011421-2		
Prerequisite Course(s)	Architecture of Ancient Civilizations	Code: 8011406-2	
Semester Level	Level: 3	Year: 2	
Responsible Person	Dr. Mohamed Al-jifri		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

**History:** This course will survey the architectural developments of different Muslim regions and dynasties throughout history. It acquaints the student with the urban characteristics of Islamic culture through the ages and increases the student's understanding of relationships between urban principles and Islamic values in art and architecture. Furthermore, this course enhances student awareness, appreciation, and respect of Muslim architecture, and to familiarize the student with vocabulary of Muslim architecture to generate and encourage interest in using and developing such elements.

**Theories:** aims to introduce students to some concepts, terminologies, and architectural features, as well as to develop their aesthetic sense of architecture and knowledge of the principles of architectural formation and the factors influencing them. Students will also acquire knowledge and skills in analyzing buildings elements and identifying the design considerations of different types of simple buildings, Such as villas, duplex housing, restaurant, cafeterias, and recreational buildings

### 4. Intended Learning Outcomes (ILOs)

- K1-e Demonstrate an understanding of the history & theories of the built environment.
- K1-f Describe the heritage of the built environment.
- S1-b Apply the knowledge of historical, social & cultural references in design.
- S1-c Apply the knowledge of design theories & methods.
- S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Computer Applications 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011426-2		
Prerequisite Course(s)	Architectural Design Studio 1	Code: 8011101-5	
Semester Level	Level: 3	Year: 2	
Responsible Person	Dr. Wagdy Qattan		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 3	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is an introduction to the fundamentals of Computer Aided Design, beginning with simple drafting commands and standard drafting methods to produce technical and standard 2D drawings.

### 4. Intended Learning Outcomes (ILOs)

K3-g Demonstrate an understanding of use of specialized measuring, testing & modeling tools in the design process.  
S1-i Employ digital skills to analyze, develop & present projects.  
V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.

## 5. Contents

Content	%
Introduction and course objectives	10%
Using units and managing options	10%
Drawing commands - Part 1	10%
Drawing commands - Part 2	10%
Editing commands	10%
Organizing the drawings using layers and inquiry commands	10%
Hatching, blocks and text techniques	10%
Creating and editing dimensions	10%
Printing drawings	10%
Color using graphic program	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture 1	Studio 0	Training 0
	Practical 2	Project 0	Other
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>		<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset. 40%	Final Exam 40%
	Mid-term Exam 20%	Total 100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Computer-based Assignments</li> <li>• Computer-based Exam</li> <li>• Computer-based Exam</li> </ul>	
Examination Requirements	Computer Lab.	

## 8. Reading List

Hamad, M. (2021). AutoCAD 2022 Beginning and Intermediate. Mercury Learning & Information
Shrock, C. (2021). Beginning AutoCAD® 2022 Exercise Workbook. Industrial Press.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K3-g																																					
S1-i																																					
V2-b																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Interior Design</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013146-2		
Prerequisite Course(s)	Architectural Design Studio 2	Code: 8011106-5	
Semester Level	Level: 3	Year: 2	
Responsible Person	Dr. Abd Al-Hafiz Al-Wafi		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces interior design methods by going through the elements and principles of interior design, materials, colors, light and furniture style. Furthermore, this course discusses the emergence and history of interior design focusing on the pioneers and movements of the 20th century and their effect on interior design realm. By the end of the course, students are required to submit a small interior design project.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.
- K1-e Demonstrate an understanding of the history & theories of the built environment.
- S1-c Apply the knowledge of design theories & methods.
- S1-k Create innovative architectural concepts & forms.
- S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
- V1-b Demonstrate respect to different points of view.
- V2-a Actively participate in finding effective solutions to social issues related to the built environment.

## 5. Contents

Content	%
Elements and principles of interior design: Finish materials	10%
Elements and principles of interior design: Space and furnishings	10%
Elements and principles of interior design: Natural and artificial lighting, and acoustics	10%
Modernism in interior design: Art Nouveau, Art Deco, De' Style and Bauhus	10%
Functionalism, Organism and interior designs	10%
Late modernism and interior design	10%
International Style and Postmodernism interior designs	10%
Using colors in Interior design	10%
Applications	10%
Oral presentation	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Tasks, etc.</li> <li>• Drawing Exam</li> <li>• Final Submission of a project/ Written Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

Massey, A. (2001). Interior Design of the 20th Century. Thames & Hudson
Ching, F., and Binggeli, C. (2018). Interior Design Illustrated. Wiley.
De Chiara, J. (2001). Time saver standards for interior design and space planning. McGraw-Hill.
Slotkis, S. (2017). Foundations of interior design. Fairchild Books
Lock, W. (1997). Interior design ideas. Eglemoss Publications
Rao, P. (2006). Interior Design (Principles & Practice). Standard Publishers Distributors

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills				
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-b																																							
K1-d																																							
K1-e																																							
S1-c																																							
S1-k																																							
S2-0																																							
V1-b																																							
V2-a																																							

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Landscape Architecture</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013331-2		
Prerequisite Course(s)	Architectural Design Studio 2	Code: 8011106-5	
Semester Level	Level: 3	Year: 2	
Responsible Person	Dr. Fares Al-Saegh.		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces the student to the field of landscape architecture. The course includes various topics concerning the profession such as landscape design determinants and considerations, site furniture, landscape structures and outdoor accessibility standards. Through lectures accompanied with an application on a small project, students will acquire the skills to develop a conceptual design and preliminary details of landscape design of an outdoor space

### 4. Intended Learning Outcomes (ILOs)

K1-b Define functional requirements for different sectors of the built environment.  
 K1-h Demonstrate an understanding of the mutual integration between human & the environment.  
 S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.  
 V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.

## 5. Contents

Content	%
Foundations of landscape architecture: Concepts and forms	10%
Landscape design determinants and considerations	10%
Bioclimate fundamentals of landscape design	10%
Plants and planting	10%
Surfacing and paving	10%
Outdoor lighting	10%
Recreational facilities, pools, and fountains	10%
Pedestrian bridges, fences, screens, and walls	10%
Outdoor accessibility standards	10%
Conceptual design and details of landscape project	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Booth, N. (2011). Foundations of Landscape Architecture. Wiley.
Bertauski, T. (2018). Plan graphics for the landscape designer. Waveland Press.
Shehata, A. (2021). Design of Outdoor Spaces. Universal Publishing Ltd.
Dines, N., & Brown, K. (2002). Time-saver standards for landscape architecture. McGraw-Hill.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-b																																					
K1-h																																					
S1-a																																					
V2-b																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Surveying</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8032840-2		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 3	Year: 2	
Responsible Person	.....		
Lecturer(s)	.....		.....
	.....		.....
	.....		.....
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 4	Self-study 2	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course focuses on enabling students to handle site surveying instruments. Furthermore, it develops the skills of using basic site surveying techniques.

### 4. Intended Learning Outcomes (ILOs)

- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.





**Specifications of**  
**Level 4**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 4</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011121-5		
Prerequisite Course(s)	Architectural Design Studio 3	Code: 8011116-5	
Semester Level	Level: 4	Year: 2	
Responsible Person	Dr.Ali Al-Mansoury		
Lecturer(s)	Dr. Ehab Farouk Rashed	Dr.Ibraheem Boukhary	
	Dr.Abd Al-Hafiz Al-Wafi	Dr.Farag Zaki .....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 11	Total 21
Credit Points	7 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This studio is concerned with medium scale public buildings. Values, knowledge, and skills acquired in previous courses are supplemented and enhanced and applied creatively to development phases of the project. This studio particularly enhances students' previously acquired skills of computer-aided drafting.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-c Demonstrate an understanding of architectural shapes & forms, & ways of presentation.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-c Apply the knowledge of design theories & methods.
- S1-d Apply the knowledge of bearing structure & materials selection.
- V1-a Demonstrate self-discipline & punctuality.
- V2-e Complete tasks under pressure & within the expected time frame.

## 5. Contents

Content	%
Definition of the decision and the design idea of the first project introduction	10%
Similar projects analysis to define the project theories	10%
Preliminary study of the project and its elements in detail.	10%
Site Analysis and its relation to natural determinants.	10%
Development of several alternatives and choose the best design and form.	10%
Design Follow up :Plans and sections	10%
Design Follow up :Elevations Design	10%
3d Presentation	10%
Design Follow up	10%
Final Project Presentation	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	10	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard			• Working documents		
	• Data show projector			• Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Oral presentations, Assignments, etc.</li> <li>• Drawing Exam</li> <li>• Oral Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

Neufert, E. and Thackara, J. (1980). Architects' data. London: Granada.  
 De Chiara, J., Panero, J. and Zelnik, M. (1991). Time-saver standards for interior design and space planning. New York  
 Ching, F. (1975). Architectural graphics. New York: Van Nostrand Reinhold Co.  
 Porter, T., Greenstreet, B. and Goodman, S. (1980). Manual of graphic techniques 1. New York: Scribner.  
 De Chiara, J., & De Chiara, J. (2001). Time-saver standards for building types. McGraw-Hill.

Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills			
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3	
K1-b																																						
K1-c																																						
S1-a																																						
S1-c																																						
S1-d																																						
V1-a																																						
V2-e																																						

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Building Construction 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011216-2		
Prerequisite Course(s)	Building Construction 1	Code: 8011206-2	
Semester Level	Level: 4	Year: 2	
Responsible Person	Dr.Farag Zaki		
Lecturer(s)	Dr. Naif Al-Aboud	Dr.Farag Zaki.	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The studio aims to study and analysis of the vertical movement elements in buildings such as stairs escalators and travellers different styles of slopes, methods of design, implementation, Architectural details and its finishing materials. Also study the design elevators and its places in the building, Study the methods of thermal, water and sound insulation, Study expansion and settlement joints in buildings. Recognizes roof types (Shells, domes, tensile, space terraces, space frames steel construction).

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K2-c Demonstrate an understanding of technical installations in buildings.
- K3-d Explain the nature of construction industry.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S4-a Perform building & execution drawings efficiently.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.
- V2-e Complete tasks under pressure & within the expected time frame.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Environmental control</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011211-2		
Prerequisite Course(s)	Architectural Design Studio 2	Code: 8011106-5	
Semester Level	Level: 4	Year: 2	
Responsible Person	Dr.Ahmed Shehata		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course studies the interaction between buildings and climate considering natural and man- made effects in order to create a climatically comfortable and controlled environment for building users. Furthermore, this course discusses examples of passive design in hot-humid and hot-arid climates.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.
- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K4-b Illustrate fundamentals of computer applications in simulation & presentation of design concepts.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-j Apply various means to achieve sustainable design.
- S3-b Analyze results of various experiments.
- V1-b Demonstrate respect to different points of view.



## 5. Contents

Content	%
Introduction to human, building and climate	10%
Climatic factors and human comfort	10%
Climatic zones, micro and macro climate, and climate effects on buildings	10%
Sun path diagram and solar control	10%
Thermal transfer control	10%
Wind effects and air flow patterns	10%
Prevailing wind: control method	10%
Daylight	10%
Passive design in hot-humid climate	10%
Passive design in hot-arid climate	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Moore, F. (1992). Environmental Control Systems: Heating, Cooling, Lighting. McGraw-Hill
Kwok, A. (2021). Environmental Control Systems Case Studies. Lulucom
Raof, S. et al. (2009). Adapting Buildings and Cities for Climate Change. Elsevier
Olgay, V. (1992). Design with Climate: Bioclimatic Approach to the Architectural Regionalism, Wiley.
Koenigsberger, O. (2005). Manual of Tropical Housing and Building Design with Climate. Longman
Phillips, D. (2004). Daylighting: Natural Light in Architecture. Architectural Press

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-b																																					
K1-d																																					
K2-a																																					
K4-b																																					
S1-a																																					
S1-j																																					
S3-b																																					
V1-b																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Introduction to Urban Environment</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011301-2		
Prerequisite Course(s)	Architectural Design Studio 2	Code: 8011106-5	
Semester Level	Level: 4	Year: 2	
Responsible Person	Dr. Abd Al-Rahman Magrashi		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

An essential part of urban design is the need to provide comfortable conditions within public spaces - comfort being a prerequisite of successful people places. This course discusses Levels of sunlight, shade, temperature, humidity, precipitation, wind and noise that have an impact upon our experience and use of urban environments.

### 4. Intended Learning Outcomes (ILOs)

- K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.
- K1-g Interpret the social aspects impact on the built environment.
- K1-h Demonstrate an understanding of the mutual integration between human & the environment.
- S1-b Apply the knowledge of historical, social & cultural references in design.
- S3-b Analyze results of various experiments.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>History and Theories of Architecture 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011431-2		
Prerequisite Course(s)	History & Theories of Architecture 1	Code: 8011421-2	
Semester Level	Level: 4	Year: 2	
Responsible Person	Dr. Mohamed Al-Jifri		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

**History:** This course introduces students to world architecture on Renaissance age, 18th and 19th centuries and pre-modernism period. It helps understanding the various cultural, technological, and aesthetic aspects through history. The course emphasizes on works and trends of pioneers throughout those eras.

**Theories:** The course aims to study the fundamentals and the criteria of designing buildings with repetitive modules such as schools, nurseries, research centers, cultural centers, libraries, and banks. The course also aims to develop the student's ability to think about the design of multi-purpose buildings with different functions vertically and understand the design process and criteria in these buildings, such as residential-commercial buildings and multi-stories car parking garages

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-e Demonstrate an understanding of the history & theories of the built environment.
- K1-f Describe the heritage of the built environment.
- S1-b Apply the knowledge of historical, social & cultural references in design.
- S1-c Apply the knowledge of design theories & methods.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Design criteria for buildings with repetitive module such as educational buildings (Schools& Kindergarten)	10%
Design criteria for cultural centers and library buildings	10%
Design criteria for service buildings such as banks and post offices	10%
Design criteria for complex buildings (commercial/residential/administrative)	10%
Early Renaissance Architecture and the late Renaissance: Mannerism Architecture	10%
The Renaissance in France and England	10%
Baroque Architecture	10%
The 18th century: Industrial revolution	10%
The architectural applications of iron and steel construction	10%
The 19th century: The beginning of pre-modern architecture (Romanticism, Arts, and crafts movement)	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Moffett, M. et al. (2008). A world History of Architecture. McGraw-Hill
Fletcher, B. (2020). Sir Banister Fletcher's Global history of architecture. Bloomsbury Visual Arts.
Ching, F. et al. (2017). A global history of architecture. Wiley.
Bussagli, M. (2019). Italian Renaissance Architecture. Koenemann
Riseberro, B. (2012). The Story of Western Architecture. The MIT Press.
Neufert, E. & Neufert, P. (2012). Neufert Architects' Data. 4th Edition. Wiley-Blackwell.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills				
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-b																																							
K1-e																																							
K1-f																																							
S1-b																																							
S1-c																																							
V1-c																																							
V2-c																																							

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Computer Applications 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012441-2		
Prerequisite Course(s)	Computer Applications 1	Code: 8011426-2	
Semester Level	Level: 4	Year: 2	
Responsible Person	Dr. Wagdy Qattan		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

3D modeling for buildings is a common tool for architects, it is almost impossible to find specialists that do not use it to visualize their exterior and interior design projects. This course introduces students to use computer modeling software efficiently. Detailed modeling procedures are discussed, including texture mapping and navigation, in addition to basics of lighting, rendering and animation.

### 4. Intended Learning Outcomes (ILOs)

K3-g Demonstrate an understanding of use of specialized measuring, testing & modeling tools in the design process.  
 S1-i Employ digital skills to analyze, develop & present projects.  
 S5-d Utilize computer applications effectively to produce graphics & models of design concepts.  
 V1-a Demonstrate self-discipline & punctuality.

## 5. Contents

Content	%
Digital theories and techniques.	10%
Advanced computer drawing and presentation process and its relative technologies.	10%
Basics of advanced computer application.	10%
Form generating logics and ideas.	10%
Basics of form generating.	10%
Generating complex surfaces	10%
Applying patterns and textures.	10%
Advanced computer animation applications.	10%
Digital fabrication techniques	10%
Developing an architectural project presentation.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	1	Studio	0	Training	0
	Practical	2	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Computer-based Assignments</li> <li>• Computer-based Exam</li> <li>• Computer-based Exam</li> </ul>			
Examination Requirements	Computer Lab.			

## 8. Reading List

Krauel, J., Noden, J. and George, W., (2010). Contemporary digital architecture.
Coward, C. (2019). A beginner's guide to 3D modeling. No Starch Press.
Mortenson, M. (2017). 3D Modeling, Animation, and Rendering. CreateSpace.
Chong, S. (2017). Rhinoceros Visualisation & Rendering.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills			
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3	
K3-g																																						
S1-i																																						
S5-d																																						
V1-a																																						

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Structure 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8032642-2		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 4	Year: 2	
Responsible Person	.....		
Lecturer(s)	.....		.....
	.....		.....
	.....		.....
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 3	Total 5
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces the student to the essential skills required to analyze simple structures using various analysis procedure and techniques.

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.







**Specifications of**  
**Level 5**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 5</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012126-5		
Prerequisite Course(s)	Architectural Design Studio 4	Code: 8011121-5	
Semester Level	Level: 5	Year: 3	
Responsible Person	Dr. Mohamed Atef		
Lecturer(s)	Dr. Ahmed Shehata	Dr. Mohamed Atef	
	Dr. Naif Al-Aboud	Dr. Ahmed Gad	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 11	Total 21
Credit Points	7 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Understanding various structure systems is an essential part of designing operation. This is expected to be accomplished through acquainting the student with applications of different sorts of long-span structure systems, so the student becomes capable of selecting the appropriate construction materials and proper structure systems when designing this type of projects.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S1-k Create innovative architectural concepts & forms.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Course identification and introduction to the project and Long span structure systems review	10%
Structure systems (part 1 and 2).	10%
Structure systems (part 3 and 4).	10%
Structure systems (part 5 and 6).	10%
Analysis of similar projects and site analysis.	10%
Preliminary study of the project and its components.	10%
Midterm Exam and Development of the project.	10%
Development of the project.	10%
Development of the project.	10%
Final submission of the project.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	10	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	• Oral presentations, Assignments, etc. • Drawing Exam • Oral Exam			
Examination Requirements	Equipped studio			

## 8. Reading List

- Watson, D. and Crosbie, M. (2004). Time-saver standards for architectural design. New York: McGraw-Hill.
- Baker H. (1996). Design strategies in Architecture: An approach to the analysis of form second Ed. London, Van Reinhold.
- Neufert, E., Neufert, P., Kister, J., Sturge, D. and Luhman, N. (2019). Architects' data. Oxford: Wiley Blackwell.
- Engel H. (2007). Structure systems. New York: Praeger.
- Ching, F. (2014). Building Structures illustrated. Wiley.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills			
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3	
K1-b																																						
K2-a																																						
S1-d																																						
S1-k																																						
V1-a																																						
V2-c																																						

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Building Construction 3</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012226-2		
Prerequisite Course(s)	Building Construction 2	Code: 8011216-2	
Semester Level	Level: 5	Year: 3	
Responsible Person	Dr.Farag Zaki		
Lecturer(s)	Dr.Naif Al-Aboud	Dr.Farag Zaki.	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course comprises the followings: Studying the various types of doors, different models, architectural details, design, manufacturing and assembling. Furthermore, it comprises: Studying windows, methods of manufacture, implementation and assembling, materials used architectural details, various models. Moreover, it comprises: Types of floors and finishing materials and false ceilings.

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K3-d Explain the nature of construction industry.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S4-a Perform building & execution drawings efficiently.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.
- V2-e Complete tasks under pressure & within the expected time frame.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Buildings Technical Installation</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8011221-2		
Prerequisite Course(s)	Environmental Control	Code: 8011211-2	
Semester Level	Level: 5	Year: 3	
Responsible Person	Dr. Abdullah Bagasi		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 1	Total 3
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The main concern and focus of this course is technical installations in buildings. It is considered as an introduction to "Execution Studio" course. The course introduces the students to various technical installations including water supply, drainage, electrical and mechanical systems. Moreover, it illustrates acoustics and lighting systems considering the simple calculations of these systems

### 4. Intended Learning Outcomes (ILOs)

K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.  
 K1-h Demonstrate an understanding of the mutual integration between human & the environment.  
 K2-b Demonstrate an understanding of various types of infrastructure systems.  
 K4-b Illustrate fundamentals of computer applications in simulation & presentation of design concepts.  
 S1-j Apply various means to achieve sustainable design.  
 S3-b Analyze results of various experiments.  
 S5-d Utilize computer applications effectively to produce graphics & models of design concepts.  
 V1-b Demonstrate respect to different points of view.





## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>History and Theories of Urban Planning</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012306-2		
Prerequisite Course(s)	Architectural Design Studio 3	Code: 8011116-5	
Semester Level	Level: 5	Year: 3	
Responsible Person	Dr. Khalid Sami		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is a preface to "Introduction to Urban Planning Studio". It gives the students an introduction to urban planning's definitions, levels, theories, and types. It addresses the history, principles and process of urban planning. The course covers a historical study of the city, including its origins and evolution since the dawn of history to the 19th mid-century. Furthermore, it illustrates required studies and process of urban planning.

### 4. Intended Learning Outcomes (ILOs)

- K1-e Demonstrate an understanding of the history & theories of the built environment.
- K1-f Describe the heritage of the built environment.
- S1-b Apply the knowledge of historical, social & cultural references in design.
- S3-b Analyze results of various experiments.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Urban Design</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012311-2		
Prerequisite Course(s)	Architectural Design Studio 3	Code: 8011116-5	
Semester Level	Level: 5	Year: 3	
Responsible Person	Dr.Faisal Al-Sharif		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is to introduce students to key concepts and basic principles in urban design. It helps students understand the urban environment where human beings operate physically, culturally and socially. Students will develop urban design skills

### 4. Intended Learning Outcomes (ILOs)

- K1-g Interpret the social aspects impact on the built environment.
- K1-h Demonstrate an understanding of the mutual integration between human & the environment.
- K3-b Illustrate the potential roles of architects in different professional contexts.
- K3-g Demonstrate an understanding of use of specialized measuring, testing & modeling tools in the design process.
- S3-a Interpret questionnaires & evaluate data from a variety of sources.
- S5-a Communicate effectively using oral & written forms.
- V2-a Actively participate in finding effective solutions to social issues related to the built environment.

## 5. Contents

Content	%
Definition and emergence of urban design	10%
The foundations and principles of urban design	10%
Elements, divisions, classifications and levels of urban design	10%
Visual dimension in urban design and Sustainability	10%
Functional and social dimension in urban design	10%
Introduction to housing: Types of residential buildings	10%
Analysis and redesign of urban spaces	10%
Applications of urban design in some European countries	10%
Applications of urban design in some Islamic countries	10%
Urban design spaces in the Saudi Arabia	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Watson, D. (2003). Time-Saver Standards for Urban Design. McGraw-Hill
Carmona, M. (2021). Public places urban spaces: The dimensions of urban design. Routledge
Towers, G. (2015). An introduction to urban housing design. Routledge
Kliment, S., & Chandler, R. (2010). Building type basics for housing. John Wiley & Sons
Firley, E., & Stahl, C. (2009). The urban housing handbook. Wiley.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills				
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-g																																							
K1-h																																							
K3-b																																							
K3-g																																							
S3-a																																							
S5-a																																							
V2-a																																							

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>History and Theories of Architecture 3</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012436-2		
Prerequisite Course(s)	History & Theories of Architecture 2	Code: 8011431-2	
Semester Level	Level: 5	Year: 3	
Responsible Person	Dr. Mohamed Al-Jifri		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

**History:** This course is to introduce the students to twentieth century and modernism architecture. It focusses on the pioneers and emerged movements of this period and their effect on architecture. The course examines the interaction of philosophical, cultural, ethical, and socio-economic concepts and architectural form and expression. It explores the relationships between buildings and their historical and cultural contexts.

**Theories:** This part of the course aims to cover the design considerations of service buildings, which are based on long Span and complex Structure, such as Hydraulic and multi-story garages, long span Mosques. Also, sports facilities as Gymnasium, Stadiums and cultural buildings as Museums, Theatres, Cinemas

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-e Demonstrate an understanding of the history & theories of the built environment.
- S1-c Apply the knowledge of design theories & methods.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S5-a Communicate effectively using oral & written forms.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
<b>Theories:</b> Definition of course and its contents, long Span and complex Structure	10%
Considerations Design of service buildings: Hydraulic and multi-story garages, long span Mosques...etc.	10%
Considerations Design of sports facilities: Gymnasium, Stadiums ... etc.	10%
Considerations Design of cultural and social buildings: Museums, Theatres, Cinemas .... etc	10%
<b>History:</b> Pre-modern architecture (Rational school) Art Nouveau and Simplicity)	10%
Pre-Modern Architecture: Pioneers' Generation from 19th century to early 20th century:	10%
Development stages of Global architecture (in the 20th century and the beginning of the 21st century): -	10%
Modernism in architecture, development stage of modern architecture: Bauhaus School, Functionalism	10%
The trend of Modernism in architecture (Organic)	10%
Architecture, International Style ...etc.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Moffett, M. Et al. (2008). A world History of Architecture. McGraw-Hill.
Almalki, Q. (2007). History of architecture through the ages. Dar Al Manahj Publishing & Distribution. Amman: Jordan.
Macdonald, Angus J.(1998),Structural Design for Architecture,Arch.Press,2nd ed. Linacre House, Jordan Hill, Oxford, UK
Neufert, E. & Neufert, P. (2012). Neufert Architects' Data. 4th Edition. Wiley-Blackwell. UK

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-b																																					
K1-e																																					
S1-c																																					
S1-d																																					
S5-a																																					
V1-c																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Structure 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8033644-2		
Prerequisite Course(s)	Structure 1	Code: 8032642-2	
Semester Level	Level: 5	Year: 3	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 2	Total 4
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces the student to design essential reinforced concrete elements such as beams, columns, slabs and footings

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.







**Specifications of**  
**Level 6**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 6</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012131-5		
Prerequisite Course(s)	Architectural Design Studio 5	Code: 8012126-5	
Semester Level	Level: 6	Year: 3	
Responsible Person	Dr.Ahmed Shehata		
Lecturer(s)	Dr.Ahmed Shehata	Dr. Mohamed Atef	
	Dr. Naif Al-Aboud	Dr. Ahmed Gad	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 11	Total 21
Credit Points	7 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Environmental sustainability is an essential part of architectural design as passive and active sustainable design principles and technologies are integrated into the design process in a holistic approach. Students will develop previously acquired knowledge of sustainable design into a medium-sized design project. Accordingly, the student can select the appropriate sustainable strategies and technologies to improve the building's environmental performance.

### 4. Intended Learning Outcomes (ILOs)

K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.  
 K4-b Illustrate fundamentals of computer applications in simulation & presentation of design concepts.  
 S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.  
 S1-j Apply various means to achieve sustainable design.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Building Construction 4</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012231-2		
Prerequisite Course(s)	Building Construction 3	Code: 8012226-2	
Semester Level	Level: 6	Year: 3	
Responsible Person	Dr.Ehab Farouk Rashed		
Lecturer(s)	Dr. Ali Almansoury	Dr.Naif Al-Aboud	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces students to the site preparation which is always the first phase of any construction project. This course places emphasis on the process of construction site preparation, tools and equipment for site works, soil mechanics and prepare the site to the types of foundations. This course includes exercises to prepare the execution drawings of housing unit building with a small area consisting of one role (chalet or similar).

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K2-c Demonstrate an understanding of technical installations in buildings.
- K3-a Identify the professional ethics & responsibilities of architects.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S4-a Perform building & execution drawings efficiently.
- V1-a Demonstrate self-discipline & punctuality.
- V2-d Demonstrate persistence on achievement & distinction.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Urban Planning Studio</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012316-3		
Prerequisite Course(s)	History & Theories of Urban Planning	Code: 8012306-2	
Semester Level	Level: 6	Year: 3	
Responsible Person	Dr.Khalid Sami		
Lecturer(s)	Dr. Abd Al-Rahman Magrishi	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 6	Self-study 6	Total 12
Credit Points	4 CPs.		
Credit Hours	3 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The Studio includes the re-planning and development of a degraded urban area or slum area to be re-planned and developed according to different methodologies. The course's work includes urban field survey of the status of the study area including land uses, the level of services and public utilities, as well as population studies, the social, economic, and environmental aspects related to them. This will consist of integrated studies and future development plans for the time specified. The study area is selected by the coordinator and professors of the course, in coordination with the relevant authorities in Mecca or other cities in the region

### 4. Intended Learning Outcomes (ILOs)

K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.  
 K1-g Interpret the social aspects impact on the built environment.  
 K3-c Identify the relevant laws, rules & legislations that regulate the built environment.  
 S1-i Employ digital skills to analyze, develop & present projects.  
 S3-a Interpret questionnaires & evaluate data from a variety of sources.  
 S5-b Effectively create various technical documentations.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.  
 V2-e Complete tasks under pressure & within the expected time frame.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Urban Planning</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012321-3		
Prerequisite Course(s)	History & Theories of Urban Planning	Code: 8012306-2	
Semester Level	Level: 6	Year: 3	
Responsible Person	Dr.Khalid Sami		
Lecturer(s)	Dr. Abd Al-Rahman Magrishi	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 1	Total 3
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course gives the students an introduction to urban planning's definitions, levels, and types. The course covers and discusses the evolution of urban planning in practice, particularly those aspects relating to neighborhood and town planning. It identifies and explain the planning process that are used at the national, regional and whether it was applied to existing towns or new towns. Also, it outlines and describes in details how the City Development Strategy (CDS) should be implemented. The course ends up with in details explanations of the planning concept of the neighborhood and its elements (planning concept, roads network, services centers, etc...).

### 4. Intended Learning Outcomes (ILOs)

- K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.
- K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.
- K3-c Identify the relevant laws, rules & legislations that regulate the built environment.
- S1-i Employ digital skills to analyze, develop & present projects.
- S3-a Interpret questionnaires & evaluate data from a variety of sources.
- V1-c Demonstrate commitment to ethics; & professional & academic values.



## 5. Contents

Content	%
Introduction to the course and urban planning definitions	10%
Urban planning process	10%
Field Survey documents	10%
Field Survey documents	10%
SWOT analysis	10%
Urban Planning Alternatives	10%
Neighbourhood Planning Concept	10%
Neighbourhood Planning Elements	10%
Neighbourhood Planning Elements	10%
Neighbourhood services centres planning	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Butler, K. (2012). Planning and Urban Design Standards. Wiley.
Weber, R. & Randal, C. (2015). The oxford handbook of urban planning.
Levy, J. (2016). Contemporary urban planning. Routledge
ELWakil, S. (2006). Urban Planning: Principles, Basics and Applications

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3								
K1-d																																					
K1-i																																					
K3-c																																					
S1-i																																					
S3-a																																					
V1-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>History and Theories of Architecture 4</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012446-2		
Prerequisite Course(s)	History & Theories of Architecture 3	Code: 8012436-2	
Semester Level	Level: 6	Year: 3	
Responsible Person	Dr. Mohamed Al-Jifri		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

**History:** This course is to introduce the students to twentieth century and modernism architecture, late Modern and postmodern Architecture. Also, contemporary Islamic architecture. It focusses on the pioneers and emerged movements of this period and their effect on architecture. The course examines the interaction of philosophical, cultural, ethical and socio-economic concepts and architectural form.

**Theories:** This part of the course aims to cover the design considerations of complex projects, which are based on studying of horizontal and vertical circulation, such as different types of Hospitals, Airports, Large Hotel Buildings, as well as Towers and Mega-structure projects.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-e Demonstrate an understanding of the history & theories of the built environment.
- S1-c Apply the knowledge of design theories & methods.
- S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
- S5-a Communicate effectively using oral & written forms.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
<b>Theories:</b> Design considerations of horizontal complex projects (Hospitals, Airports, Large Hotel Buildings)	10%
Design considerations of vertical complex projects (Towers and Mega-structure projects)	10%
Modern Architecture: First and second generations of pioneers	10%
Late-Modern Architecture: Sculptural Form and Slick Tech	10%
Twenties Revivalism, Structuralism and Machine Simulation, High Tech, Monumental Expressionism and Deconstruction	10%
Post-Modern Architecture	10%
The develop. Stages of Islamic Arch. In (20 – 21) Century (Islamic arch. and the corresponding global arch.)	10%
Islamic architecture: Revivalism Vernacular Arch., Neo-Vernacular Arch.; Traditional Architecture	10%
Islamic architecture: Contemporary Architecture: Contemporary & Historical Affiliation,	10%
Islamic architecture: Contemporary & Vernacular Affiliation, Symbolic Contemporary Arch.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture 2	Studio 0	Training 0
	Practical 0	Project 0	Other
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>		<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset. 40%	Final Exam 40%
	Mid-term Exam 20%	Total 100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>	
Examination Requirements	Equipped classroom	

## 8. Reading List

Frampton, K. (2007). Modern Architecture, a Critical History. Thames and Hudson.
Doordan, D. (2002). Twentieth century architecture. Abrams.
Jencks, C. (1991). The language of post-modern architecture. Academy Editions.
Moffett, M. Et al. (2008). A world History of Architecture. McGraw-Hill.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-b																																					
K1-e																																					
S1-c																																					
S2-0																																					
S5-a																																					
V1-c																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Rules and Regulations of Urbanism</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012451-2		
Prerequisite Course(s)	Architectural Design Studio 4	Code: 8011121-5	
Semester Level	Level: 6	Year: 3	
Responsible Person	Dr. Abd Al-Rahman Magrishi		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 1	Total 3
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course contains a brief description of the legislations, rules and regulations of urban construction - their origin and development throughout history and up to the present time. It also deals briefly with the Islamic urban legislation, as well as the urban (urban) legislations that accompany the cities of the industrial revolution and the following, The legislations also contain the existing rules and regulations in the planning of cities, their regions and residential areas, as well as the construction requirements in the Kingdom of Saudi Arabia.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.
- K3-c Identify the relevant laws, rules & legislations that regulate the built environment.
- S1-e Apply the knowledge of professional & regulatory requirements.
- S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.
- V2-e Complete tasks under pressure & within the expected time frame.

## 5. Contents

Content	%
Introduction to Rules and regulations of Urbanism - definitions and terminology	10%
Development of Rules and regulations of Urbanism of historic - from inception to the Industrial Revolution.	10%
Development of Rules and regulations of Urbanism of historic - from industrial revolution until now.	10%
Rules and regulations of Urbanism in Islamic legislation.	10%
Modern Rules and regulations of Urbanism and its relation to Islamic legislation.	10%
Comparison between modern Rules and regulations of Urbanism and between Islamic legislation.	10%
The Types of legislation, Rules, and regulations of Urbanism of modern construction.	10%
Contemporary Urban Legislations in the Kingdom of Saudi Arabia	10%
Types of legislation, Rules, and regulations of Urbanism in Saudi Arabia (cities - areas - buildings - streets)	10%
The rules and regulations of urban and their impact on urbanization in the cities of the Kingdom.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Allam, A. Khaled . (1995) , Laws of Urban Planning and Organization of Buildings, Dar Anglo Egypt
Hazlol, Saleh (2010) , Arab Islamic City - Effect of legislation in the formation of the urban environment
Butler, K. (2012). Planning and Urban Design Standards. Wiley.
Weber, R. & Randal, C. (2015). The oxford handbook of urban planning. 2015
Levy, J. (2016). Contemporary urban planning. Routledge
ELWakil, S. (2006). Urban Planning: Principles, Basics and Applications

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-b																																					
K1-i																																					
K3-c																																					
S1-e																																					
S2-0																																					
V1-a																																					
V2-c																																					
V2-e																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility



**Specifications of**  
**Level 7**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 7</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013136-5		
Prerequisite Course(s)	Architectural Design Studio 6	Code: 8012131-5	
Semester Level	Level: 7	Year: 4	
Responsible Person	Dr. Khalid Sami		
Lecturer(s)	Dr. Omar Osra.....	Dr.Amr Al-Abasi.	
	Dr. Abdulrahman Al-Magrishi	Dr.Adnan Al-Shahrani.....	
	Dr.Mohamed Al-Mahdi.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 14	Total 24
Credit Points	8 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course contains the planning and design of a residential neighborhood in any city in the Kingdom as Mecca, Students are planned according to the general urban planning of the city, the planning requirements of the area and the approved standards in terms of housing quality, building heights and densities, etc.

### 4. Intended Learning Outcomes (ILOs)

- K1-b Define functional requirements for different sectors of the built environment.
- K3-c Identify the relevant laws, rules & legislations that regulate the built environment.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-j Apply various means to achieve sustainable design.
- S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
- V1-b Demonstrate respect to different points of view.
- V2-a Actively participate in finding effective solutions to social issues related to the built environment.

## 5. Contents

Content	%
Introduction to the project and a general lecture about neighborhood Unit	10%
Preliminary analytical study general on the neighborhood unit and its buildings services	10%
Neighboring site analysis	10%
Analysis of the general location of a neighboring and work plans priority	10%
Three alternatives of work to plan	10%
Design different models of residential buildings and the required types of buildings as well as public services	10%
Design the main streets and branch for the neighborhood and design the center of the neighborhood unit	10%
Landscaping of urban spaces and the spaces between buildings	10%
Land uses, calculation of different densities and its economic viability	10%
Final adjustments and final output planning of the neighborhood unit - final Jury	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	10	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard			• Working documents		
	• Data show projector			• Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Oral presentations, Assignments, etc.</li> <li>• Drawing Exam</li> <li>• Oral Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

Allam, Ahmed Khaled (1995), Neighborhood planning, Cairo, Egypt.  
 Al-Wakeel, Shafiq Al- Al-Awadhi (2007) - Urban Planning, Faculty of Engineering, Al-Azhar Univ., Cairo , Egypt.

Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-b																																					
K3-c																																					
S1-a																																					
S1-j																																					
S2-0																																					
V1-b																																					
V2-a																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Execution Design Studio 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013236-2		
Prerequisite Course(s)	Building Construction 4	Code: 8012231-2	
Semester Level	Level: 7	Year: 4	
Responsible Person	Dr. Mohamed Wahba		
Lecturer(s)	Dr. Mohamed Atef	Dr. Naif Al-Aboud..	
	Dr. Ali Al-Mansoury	Dr. Ahmed Jaad	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 4	Self-study 8	Total 12
Credit Points	4 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This studio introduces the students to the fundamentals of execution design drawings based upon previous building construction studios. The student will apply the acquired knowledge on one of his residential projects which had already been designed. Students will learn how to follow dimensioning, coordination, annotating and coding systems. They will also coordinate architectural, structural, and electromechanical requirements. It is considered as a continuation of "Buildings' Technical Installations" course. The students are asked to execute various technical installation details including water supply, drainage, electrical and mechanical systems.

### 4. Intended Learning Outcomes (ILOs)

K2-c Demonstrate an understanding of technical installations in buildings.  
 S1-d Apply the knowledge of bearing structure & materials selection.  
 S4-a Perform building & execution drawings efficiently.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-e Complete tasks under pressure & within the expected time frame.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Housing</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013326-2		
Prerequisite Course(s)	Architectural Design Studio 5	Code: 8012126-5	
Semester Level	Level: 7	Year: 4	
Responsible Person	Dr. Omar Adnan Osra		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course deals with the definitions, concepts and issues related to housing such as: shelter, housing, population, area density, etc. Furthermore, it discusses types of housing, factors that affect the design of the housing, criteria and design considerations, as well as its problems and solutions. At the end, the course focuses on planning of neighborhood residential areas.

### 4. Intended Learning Outcomes (ILOs)

K1-h Demonstrate an understanding of the mutual integration between human & the environment.  
 K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.  
 K3-e Illustrate fundamentals of economics of construction sector.  
 S1-e Apply the knowledge of professional & regulatory requirements.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-a Actively participate in finding effective solutions to social issues related to the built environment.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.  
 V2-e Complete tasks under pressure & within the expected time frame.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Advanced Computer Applications</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013456-2		
Prerequisite Course(s)	Computer Applications 2	Code: 8012441-2	
Semester Level	Level: 7	Year: 4	
Responsible Person	Dr. Ahmed Shehata		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 3	Self-study 6	Total 9
Credit Points	3 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Generative design is a set of technologies that give a computerized copilot for design process, helping engage the power of computation and algorithms to create designs. This course explores the potential of parametric modeling, algorithms and generative systems in architectural design. Students are free to explore and build on a wide and extensible palette of parametric modeling, scripting, and analysis tools during their experimentation with form generation, evaluation and optimization methods

### 4. Intended Learning Outcomes (ILOs)

K4-b Illustrate fundamentals of computer applications in simulation & presentation of design concepts.  
S5-d Utilize computer applications effectively to produce graphics & models of design concepts.  
V2-d Demonstrate persistence on achievement & distinction.

## 5. Contents

Content	%
Digital theories and techniques.	10%
Digital theories and techniques.	10%
Advanced computer drawing and presentation process and its relative technologies.	10%
Basics of advanced computer application.	10%
Form generating logics and ideas.	10%
Basics of form generating.	10%
Generating complex surfaces and Applying patterns and textures.	10%
Advanced computer animation applications	10%
Digital fabrication techniques.	10%
Developing an architectural project presentation	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	1	Studio	0	Training	0
	Practical	2	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Computer-based Assignments</li> <li>• Computer-based Exam</li> <li>• Computer-based Exam</li> </ul>			
Examination Requirements	Computer Lab.			

## 8. Reading List

<p>Agkathidis, A. (2016). Generative Design. Laurence King Publishing</p> <p>Rhee, J. (2020). Digital media series: Grasshopper. Independently published</p> <p>Zesk, W. (2019). Grasshopper: Generative Design for Architecture. linkedin</p>
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### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	1	2	3					
K4-b																																					
S5-d																																					
V2-d																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Structure 3</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8033646-2		
Prerequisite Course(s)	Structure 2	Code: 8033644-2	
Semester Level	Level: 7	Year: 4	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 2	Total 4
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course introduces the student to design essential steel structure elements and related techniques.

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K4-a Demonstrate an understanding of mathematical concepts relevant to architecture.
- S1-d Apply the knowledge of bearing structure & materials selection.
- S5-c Use mathematics to process data & information in various complex contexts, related to architecture.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.







**Specifications of**  
**Level 8**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 8</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013141-5		
Prerequisite Course(s)	Architectural Design Studio 7	Code: 8013136-5	
Semester Level	Level: 8	Year: 4	
Responsible Person	Dr. Khalid Sami		
Lecturer(s)	Dr.Omar Osra.....	Dr.Amr Al-Abasi.	
	Dr.Abdulrahman Al-Magrishi	Dr.Adnan Al-Shahrani.....	
	Dr.Mohamed Al-Mahdi.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 14	Total 24
Credit Points	8 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course includes designing a general multi-purpose architectural project that contains mixed use through which to study the functional relationship between the various purposes and to deal with movement and transition between them as well as studying the appropriate design networks, such as projects of pilgrims housing buildings and the various services that accompany them, residential commercial administrative buildings, and other services.

### 4. Intended Learning Outcomes (ILOs)

K1-a Demonstrate an understanding of processes & methods of design.  
 S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.  
 S1-e Apply the knowledge of professional & regulatory requirements.  
 S1-j Apply various means to achieve sustainable design.  
 S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.  
 V1-a Demonstrate self-discipline & punctuality.

## 5. Contents

Content	%
Defining the architectural project and gathering information about the project	10%
The preliminary study of the project.	10%
Analysis of the general site and study of the project components.	10%
Designing the site plan for the project, designing three alternatives, and choosing the appropriate alternative.	10%
The expected mass analysis of the project's general form.	10%
Design the main elevation of the project - analysis of proportions and aesthetics	10%
Elevations Design - Selection of materials suitable for the general shape.	10%
The advanced study of the complete work design, (Site plan, plan, sections, and isometric)	10%
The advanced study for the design. (Furniture, structural system)	10%
Final modifications to the entire project design with site coordination.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture 0	Studio 10	Training 0
	Practical 0	Project 0	Other
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> <li>• Working documents</li> <li>• Internet connection</li> </ul>		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	70%	Final Exam	20%
	Mid-term Exam	10%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Oral presentations, Assignments, etc.</li> <li>• Drawing Exam</li> <li>• Oral Exam</li> </ul>			
Examination Requirements	Equipped studio			

## 8. Reading List

- Watson, D., Crosbie, J. and Callender, J. (1997). Time saver standards for Architectural design data. New York McGraw-Hill.
- Baker H. (1996). Design strategies in architecture: An approach to the analysis of form. 2nd Ed., London, Van Nostrand Reinhold.
- Rosen, J. (1996). Architectural Materials For Construction. New York: McGraw-Hill .
- Moore, F. Understanding Structures. New York: McGraw-Hill

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills				
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3		
K1-a			■																									■											
S1-a									■																														
S1-e																																							
S1-j																																							
S2-0																																							
V1-a																																							

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Execution Design Studio 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013241-2		
Prerequisite Course(s)	Execution Design Studio 1	Code: 8013236-2	
Semester Level	Level: 8	Year: 4	
Responsible Person	Dr. Mohamed Wahba		
Lecturer(s)	Dr. Mohamed Atef	Dr. Naif Al-Aboud..	
	Dr. Ali Al-Mansoury	Dr. Ahmed Jaad	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 4	Self-study 8	Total 12
Credit Points	4 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is a practical application on scheduling: assignment of activities, and materials to prepare architectural details for determine quantities and specifications. Also, to prepare the brochure of tender specifications and the rough indexation or estimations of the project costs.

### 4. Intended Learning Outcomes (ILOs)

- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K3-b Illustrate the potential roles of architects in different professional contexts.
- S4-a Perform building & execution drawings efficiently.
- S5-b Effectively create various technical documentations.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-e Complete tasks under pressure & within the expected time frame.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Jurisprudence for Architects</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	1011244-2		
Prerequisite Course(s)	None		Code: None
Semester Level	Level: 8	Year: 4	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 2	Total 4
Credit Points	1 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course comprises the followings: Starting with general introduction including course objectives, the final outputs, the purpose of Allah creation of human, wisdom of sending messengers, neighbors rights, individual residence, and family residence. Discussing some fundamentals in Sharea such as the provisions of the right of the passage and the disposition of the corridor (public roads), the disposition of special corridor (private road), planning of cities with more concern about most prominent elements and components and the role of architects.

### 4. Intended Learning Outcomes (ILOs)

S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.  
V1-a Demonstrate self-discipline & punctuality.  
V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.

### 5. Contents

Content	%
Knowing why Allah has created the universe? The purpose of sending his messengers	10%
The five main need in Islam.	10%
Neighbor right in Islam and Veil (Hijab) in Islam.	10%
Single home components and Family home components	10%
Traffic right provisions in Islam.	10%
First section: proceeding in the public roads	10%
Second section: proceeding in the arterials street	10%
Formation of city and planning principles in Islam	10%
The most prominent elements and components in the Islamic cities.	10%
Dereliction from the Architect. (Tort of Architect ).	10%

### 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture 2	Studio 0	Training 0
	Practical 0	Project 0	Other
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>		<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>

### 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

### 8. Reading List

SURNAME, (2017) Initials. (pub. year) Book title. Edition. Place of pub: publisher
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### Mapping CLOs, and ASIIN's LOs

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
S2-0																																					
V1-a																																					
V2-b																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility



**Specifications of**  
**Level 9**  
Courses



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 9</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014151-5		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	Dr. Magdy Al-Bastawisy		
Lecturer(s)	Dr. Adel Bin Yasin	Dr. Ibrahim Boukhary	
	Dr. Ihab Farouk Rashed.	Arch. Husam Murad.	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 10	Self-study 17	Total 27
Credit Points	9 CPs.		
Credit Hours	5 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This studio is concerned basics of professional practice as an introduction to graduation project with mixed-use public buildings that combine three or more uses into one structure such as residential, hospital, hotel, retail, parking, cultural, and entertainment, etc. Values, knowledge, and skills acquired in previous courses are supplemented and enhanced and applied creatively to development phases of the project.

### 4. Intended Learning Outcomes (ILOs)

- K1-h Demonstrate an understanding of the mutual integration between human & the environment.
- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- K3-a Identify the professional ethics & responsibilities of architects.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-i Employ digital skills to analyze, develop & present projects.
- S5-b Effectively create various technical documentations.
- S5-d Utilize computer applications effectively to produce graphics & models of design concepts.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Graduation Project Research</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014156-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	Dr. Magdy Al-Bastawisy		
Lecturer(s)	Dr. Adel Bin Yasine .....		
	Dr. Abdulhafiz Al-Wafi .....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 10	Total 12
Credit Points	4 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course is an introduction to "Graduation Project Studio. It focuses on choosing a graduation project title that matches the student's approach. Furthermore, student will learn how to prepare an actual project methodology through studying and analyzing past experiences of similar projects locally, regionally, and internationally. This course enables the student to choose appropriate site, prepare detailed space program, and define planning and design standards for the selected project. Moreover, this course acquaints the students with scientific report writing skills as they are required to submit a well-written report on the cited studies.

### 4. Intended Learning Outcomes (ILOs)

- S3-c Apply scientific research for complex issues of the built environment.
- S5-a Communicate effectively using oral & written forms.
- S5-b Effectively create various technical documentations.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.
- V2-d Demonstrate persistence on achievement & distinction.

## 5. Contents

Content	%
Scientific research objectives and its scope	10%
Research problem, hypothesis, and methodology	10%
Selecting the graduation project	10%
Analyses of previous similar projects - Part 1	10%
Analyses of previous similar projects - Part 2	10%
Specifying and selecting the appropriate site	10%
Defining the project program	10%
Development of the project program details	10%
Defining planning and design standards, laws, rules, and legislations	10%
Defining vision for the selected graduation project.	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	0	Training	0
	Practical	0	Project	2	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Report stages</li> <li>• Oral Exam</li> <li>• Final Report Submission</li> </ul>			
Examination Requirements	Classroom			

## 8. Reading List

Deetjen, T. (2020). Published: a Gide. Productive Academic.
Schluter, W. (1926). How to do research work. Prentice-Hall, Inc
Neufert, E. et al. (2019). Architects' Data. Wiley-Blackwell
Watson, D., & Crosbie, M. (2005). Time-saver standards for architectural design. McGraw-Hill
De Chiara, J., & De Chiara, J. (2001). Time-saver standards for building types. McGraw-Hill

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
S3-c																																					
S5-a																																					
S5-b																																					
V2-b																																					
V2-d																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Project Management</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014246-2		
Prerequisite Course(s)	Architectural Design Studio 7	Code: 8013136-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	Dr. Ibraheem Boukhary		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course introduces the terminology of construction management, types of construction projects, and responsibilities of construction managers. A description of the contract documents, different types of construction contracts, project delivery methods and planning are provided as an essential part of the course. A description of the contract documents, different types of construction contracts and project delivery methods are provided as an essential part of the course. Computer-based applications in construction management are introduced during the course.

### 4. Intended Learning Outcomes (ILOs)

K3-b Illustrate the potential roles of architects in different professional contexts.  
 K3-d Explain the nature of construction industry.  
 K3-f Illustrate fundamentals of project management of construction sector.  
 S1-g Apply the knowledge of construction project management.  
 V1-a Demonstrate self-discipline & punctuality.  
 V1-b Demonstrate respect to different points of view.  
 V1-c Demonstrate commitment to ethics; & professional & academic values.  
 V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.





**Specifications of**  
**Level 10**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural Design Studio 10</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014161-7		
Prerequisite Course(s)	Arch. Design Studio 9 & Grad. Project Research	Code: 8014151-5	
Semester Level	Level: 10	Year: 5	
Responsible Person	Dr. Adel Bin Yasin		
Lecturer(s)	Dr. Magdy Al-Bastawisy	Dr. Ibrahim Boukhary	
	Dr. Ihab Farouk Rashed.	Arch. Husam Murad.	
	Abd Al-Hafiz Al-Wafi	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 14	Self-study 22	Total 36
Credit Points	12 CPs.		
Credit Hours	7 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This studio is considered as the final phase of the graduation project. It is based on the cumulative knowledge and skills developed in all the previous design studios, course work and professional experience. This phase concentrates on developing a complete design project based on what has been achieved in the previous phase. This studio is the culmination of work where students present their professional capacity in architecture.

### 4. Intended Learning Outcomes (ILOs)

- K1-h Demonstrate an understanding of the mutual integration between human & the environment.
- K2-a Differentiate between various types of building materials, building technologies & structural systems.
- S1-a Make design decisions considering user requirements, site analysis, & environmental impacts.
- S1-i Employ digital skills to analyze, develop & present projects.
- S2-0 Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
- S5-d Utilize computer applications effectively to produce graphics & models of design concepts.
- V2-d Demonstrate persistence on achievement & distinction.





## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Economics of Architectural Projects</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014251-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 10	Year: 5	
Responsible Person	Dr. Ibraheem Boukhary		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course acquaints students with the concepts of economics and its impact on construction and qualifies them to make proper economic decisions concerning architectural projects. The course includes a general explanation of the time value of money and cash flow analysis. The course describes the factors that affect building costs and explains the effect of technical specifications on operation costs. Principles of bill-of-quantity (BOQ), cost estimation, and cash flow analysis are illustrated. Concept of value engineering and some advanced building economic concepts are introduced at the end of the course.

### 4. Intended Learning Outcomes (ILOs)

- K3-b Illustrate the potential roles of architects in different professional contexts.
- K3-e Illustrate fundamentals of economics of construction sector.
- S1-f Apply the knowledge of construction economics.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.
- V2-d Demonstrate persistence on achievement & distinction.



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Human and Environment</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014336-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 10	Year: 5	
Responsible Person	Dr. Widea Al-Barqawi		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course provides opportunities for students to conduct in-depth investigations of selected topics in the mutual integration between human and environment. It raises the student's familiarity with contemporary human issues, especially those related to environmental preservation and the impact of the information revolution on the built environment, etc. Through weekly seminars, the students prepare presentations on specific topics and engage with colleagues in discussion and brainstorming.

### 4. Intended Learning Outcomes (ILOs)

K1-d Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.  
 K1-h Demonstrate an understanding of the mutual integration between human & the environment.  
 S1-j Apply various means to achieve sustainable design.  
 S5-a Communicate effectively using oral & written forms.  
 V1-a Demonstrate self-discipline & punctuality.  
 V1-b Demonstrate respect to different points of view.





**Specifications of**  
**Summer Training**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Summer Training 1</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8012501-2		
Prerequisite Course(s)	Architectural Design Studio 5	Code: 8012126-5	
Semester Level	Level: 6	Year: 3	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 30	Self-study 0	Total 30
Credit Points	4 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This training provides students with an opportunity to enrich their university experience by linking academic studies to actual practical situations. Students will also have the opportunity to assess their professional interests in their respective fields as heritage buildings in Makkah through survey, photography, and draw the plan, section and elevation then the students can put alternatives to preserve or upgrade these buildings. The student is subject to all the organizational rules of the department of Islamic architecture.

### 4. Intended Learning Outcomes (ILOs)

- K1-f Describe the heritage of the built environment.
- K1-g Interpret the social aspects impact on the built environment.
- S3-a Interpret questionnaires & evaluate data from a variety of sources.
- S5-b Effectively create various technical documentations.
- V1-c Demonstrate commitment to ethics; & professional & academic values.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Preparing to work for the training consultant and directing the student to commit to the required tasks.	10%
Determine the students work in the field of Importance of conserving architectural heritage	10%
Practicing the professional work and different tasks (photography) (part1)	10%
Practicing the professional work and different tasks (survey) (part2)	10%
Practicing the professional work and different tasks (draw plan and sections) (part3)	10%
Practicing the professional work and different tasks (draw elevations) (part4)	10%
Practicing the professional work and different tasks (upgrade alternatives) (part5)	10%
Practicing the professional work and different tasks (final poster) (part6)	10%
Checking the training authority's report (performance / Present the training report produced by student)	10%
Training Consultant performance and Final training reports	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	0	Studio	0	Training	30
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	80%	Final Exam	20%
	Mid-term Exam	.....	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Follow-up and periodical reports</li> <li>• .....</li> <li>• Training Consultant performance and Final training reports</li> </ul>			
Examination Requirements	None			

## 8. Reading List

Alalouch, C., (2019). Conservation of Architectural Heritage. Springer
Versaci, A. & Bougdah, H. (2022). Conservation of Architectural Heritage. Springer.
Pickard, R. (2012). Policy and law in heritage conservation. Taylor & Francis
Saudi building code National committee. (2018).
Saudi building code National committee. (2018). Saudi Code: SBC 401.
Saudi building code National committee. (2018). Saudi Code: SBC 501.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-f																																					
K1-g																																					
S3-a																																					
S5-b																																					
V1-c																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility



## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Summer Training 2</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8013506-2		
Prerequisite Course(s)	Architectural Design Studio 7	Code: 8013136-5	
Semester Level	Level: 8	Year: 4	
Responsible Person	Dr. Mohamed Al-Jifri		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Core Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 0	Self-study 30	Total 30
Credit Points	4 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This training provides students with an opportunity to enrich their university experience by linking academic studies to actual practical situations. Students will also assess their professional interests in their respective fields. The trainee student is subject to all the organizational rules and vacations system in the firm in which he trains. Training opportunities with architectural firms are selected by the department; however, student can select an opportunity to train after department approval. Prior to the semester in which the training is held, an introductory lecture is conducted, and students nominated for training are invited to attend.

### 4. Intended Learning Outcomes (ILOs)

- K3-a Identify the professional ethics & responsibilities of architects.
- K3-b Illustrate the potential roles of architects in different professional contexts.
- K3-c Identify the relevant laws, rules & legislations that regulate the built environment.
- S1-e Apply the knowledge of professional & regulatory requirements.
- S5-a Communicate effectively using oral & written forms.
- S5-b Effectively create various technical documentations.
- V1-a Demonstrate self-discipline & punctuality.
- V2-b Demonstrate responsibility for self-learning & continuing personal & professional development.





**Specifications of**  
**Electives**  
Courses

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Urban Heritage in Saudi Arabia</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014514-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	Dr. Mohamed Bagader		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

The course aims to teach student Definition of the concept of preserving the architectural heritage, and the rooting experiences of Architectural Heritage Conservation in Saudi Arabia

### 4. Intended Learning Outcomes (ILOs)

K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.  
 S3-c Apply scientific research for complex issues of the built environment.  
 S5-a Communicate effectively using oral & written forms.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Definition and importance of conservation of urban heritage	10%
Kinds, patterns and levels of urban heritage	10%
Principals and issues of protecting urban heritage	10%
Criteria and methods of preliminary identifying urban heritage	10%
Methodology of analyzing and developing urban heritage	10%
Approaches and policies of conserving urban heritage	10%
International experiences of protecting urban heritage	10%
Regional experiences of protecting urban heritage	10%
National experiences of protecting urban heritage in Saudi Arabia	10%
Presentation of research	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

R Pickard (2001), Policy and law in heritage conservation, Taylor & Francis.  
 Roinn, A (2011), architectural heritage protection Guidelines for planning authorities, 2nd Edition, DUBLIN, Government of Ireland.  
 R Pickard (2001), Policy and law in heritage conservation, Taylor & Francis.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>High-Tech in Building Construction</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014516-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

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### 4. Intended Learning Outcomes (ILOs)

<p>K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.</p> <p>S3-c Apply scientific research for complex issues of the built environment.</p> <p>S5-a Communicate effectively using oral &amp; written forms.</p> <p>V1-a Demonstrate self-discipline &amp; punctuality.</p> <p>V2-c Work collaboratively &amp; constructively, &amp; lead diverse teams to perform a wide range of tasks with responsibility.</p>
--

### 5. Contents

Content	%
	10%
	10%
	10%
	10%
	10%
	10%
	10%
	10%
	10%
	10%

### 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture 2	Studio 0	Training 0
	Practical 0	Project 0	Other
Media Employed	• Whiteboard • Data show projector		• Working documents • Internet connection

### 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	• Assignments, Research and Discussions • Written Exam • Written Exam			
Examination Requirements	Equipped classroom			

### 8. Reading List

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### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Mega Structure</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014518-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	Dr. Naif Al-Aboud		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course provides a deeper understanding of mega structures buildings concepts, design structures and components. It introduces students to different mega structures buildings' types via case studies such as medical cities, multi-function buildings, skyscrapers, airports, train stations and stadiums. This course covers the analysis of space program, the design philosophy, design concept and structural elements of these kinds of buildings. Students learn to develop their own understanding of designing and analyzing different types of mega structures buildings.

### 4. Intended Learning Outcomes (ILOs)

K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.  
 S3-c Apply scientific research for complex issues of the built environment.  
 S5-a Communicate effectively using oral & written forms.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.



## 5. Contents

Content	%
Introduction to the Course and Terms' Definitions	10%
The Mega Structure: The Matter of Size and Function	10%
Mega Structure: Principals and Presentations	10%
Airports	10%
Medical Cities and Hospitals	10%
Multi-functions Building	10%
Skyscrapers: Futuristic and Realistic	10%
Sport Cities, Stadiums and Train Stations	10%
Hotels and Resorts	10%
Final Presentations	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture 2	Studio 0	Training 0
	Practical 0	Project 0	Other
Media Employed	<ul style="list-style-type: none"> <li>• Whiteboard</li> <li>• Data show projector</li> </ul>		<ul style="list-style-type: none"> <li>• Working documents</li> <li>• Internet connection</li> </ul>

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset. 40%	Final Exam 40%
	Mid-term Exam 20%	Total 100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>	
Examination Requirements	Equipped classroom	

## 8. Reading List

Engel H. (2007). Structure systems. Praeger.
Graham, I. (2012). Megastructures: Tallest, Longest, Biggest, Deepest. Firefly Books.
Schierle, G. (2006). Architectural structures. University of Southern California.
Sev, A. (2015). Innovations in Tall Building Design and Technology. Scholars' Press

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architecture of the Two Holy Mosques</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014528-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 10	Year: 5	
Responsible Person	Dr. Farag Zaki		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course places emphasis on establishment and Saudi Expansions of Al Masjid al-Haram and Prophet Mosque and their effects on urban surroundings. Furthermore, it discusses various topics such as security and safety in Al Masjid al-Haram and Majidi style of the Prophet Mosque. At the end of the course, students are asked to prepare and present creative proposals to facilitate worship in the Two Holy Mosques.

### 4. Intended Learning Outcomes (ILOs)

K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.  
 S3-c Apply scientific research for complex issues of the built environment.  
 S5-a Communicate effectively using oral & written forms.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Establishment of Al Masjid al-Haram	10%
Effect of Al Masjid al-Haram on urban surrounding before the Saudi Extensions	10%
The Saudi Expansions for Al Masjid al-Haram	10%
Security and safety in Al Masjid al-Haram	10%
Establishment of the Prophet Mosque in Madina	10%
The Saudi Expansion for the Haram of the Prophet Mosque in Madina	10%
Establishment of the Prophet Mosque	10%
Effect of the Prophet Mosque on urban surrounding before the Saudi Extensions	10%
The Saudi Expansions and Majidi style of the Prophet Mosque	10%
Proposals to facilitate worshipping in the two holy mosques	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

<p>Ministry of Information. (1992). The two Holy Mosques and their Arch. During the Saudi Reign</p> <p>College of architecture and planning. (1999). The architecture of the two holy mosques.</p> <p>Adawi, N. (1994). The Two Holy Mosques in Saudi Arabia. Gulf Centre for Strategic Studies.</p> <p>Darus Salam. (2011). Islamic Album Galleries of the Two Holy Mosques.</p>
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### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Sustainability and Green Architecture</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014520-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 9	Year: 5	
Responsible Person	Dr. Faisal Al-Sharif		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

Nowadays natural resources are being used in irreparably damaging rate. Moreover, human activities pollute the air, water and land which we depend on to survive. Hence this course focuses on sustainable architectural design as an introduction to Architectural Design studios. This course illustrates the appropriate strategies and technologies used to improve the building's environmental performance and to provide comfort to its occupants. Therefore, basic technical knowledge on energy, water, materials, etc., is covered in the context of how buildings operate.

### 4. Intended Learning Outcomes (ILOs)

- K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.
- S3-c Apply scientific research for complex issues of the built environment.
- S5-a Communicate effectively using oral & written forms.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Introduction to sustainability	10%
Location and transportation	10%
Sustainable site	10%
Water efficiency	10%
Energy and atmosphere	10%
Materials and resources	10%
Indoor air quality and thermal comfort	10%
Indoor efficient lighting and view	10%
Case study analysis - Part 1	10%
Case study analysis - Part 2	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

U.S. Green Building Council. (2010). Green building design and construction.
Kubba, S. (2017). Handbook of Green Building Design and Construction. Elsevier Science.
Kibert, C. (2016). Sustainable Construction, 4th Edition. John Wiley & Sons.
Lezcano, R. (2021). Sustainable Building and Indoor Air Quality. MDPI AG.
Ching, F., & Shapiro, I. (2014). Green building illustrated. John Wiley & Sons.
Saudi building code National committee (2018). Green Construction Code 1001.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	1	2	3	1	2	3	4	5	6	7	1	2	3
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Architectural criticism</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014524-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 10	Year: 5	
Responsible Person	Dr. Mohamed Al-Jifri		
Lecturer(s)	.....	.....	
	.....	.....	
	.....	.....	
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course focuses on the types and methods of architectural criticism. It includes studying the techniques of critical expression, and evaluation of architectural projects. The course emphasizes the variety of contemporary architectural school of thought and how to apply different types, methods, and techniques (styles) of criticism to it. Students are required to practice architectural criticism in term of local and international case studies.

### 4. Intended Learning Outcomes (ILOs)

K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.  
 S3-c Apply scientific research for complex issues of the built environment.  
 S5-a Communicate effectively using oral & written forms.  
 V1-a Demonstrate self-discipline & punctuality.  
 V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.

## 5. Contents

Content	%
Introduction: Philosophy and role of architectural criticism	10%
Architectural criticism and creativity relation	10%
The architectural criticism criteria: Subjective criteria	10%
The architectural criticism criteria: Contextual criteria	10%
The architectural criticism criteria: Impressionistic criteria	10%
The architectural criticism criteria: Self-criteria	10%
New directions in architectural criticism	10%
Process of architectural criticism	10%
International case studies	10%
Local case studies	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard • Data show projector			• Working documents • Internet connection		

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Colquhoun, A., & Frampton, K. (2009). Collected essays in architectural criticism. Black Dog.
Wang, W. (2022). On the duty and power of architectural criticism. Park books.
Ramadan, M. (2022). Architectural Criticism as a Main Improvement strategy. IJAER

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

## Handbook of Module Specifications P37

### 1. General Information

Module Name	<b>Vernacular Architecture</b>		
Module Level	Bachelor of Islamic Architecture (Architecture)		
Code	8014526-2		
Prerequisite Course(s)	Architectural Design Studio 8	Code: 8013141-5	
Semester Level	Level: 10	Year: 5	
Responsible Person	.....		
Lecturer(s)	.....		
	.....		
	.....		
Language	English/ Arabic		
Relation to Curriculum	Elective Course		

### 2. ECTS/ Workload

Workload Hours per Week	Contact 2	Self-study 4	Total 6
Credit Points	2 CPs.		
Credit Hours	2 CHs.		
Req. according to Exam Reg.	Students should participate in at least 75% of the learning activities		

### 3. Module Summary

This course will provide an introduction to the field of vernacular architecture, research in different countries, describing and defining basic building types, focusing on interpretive concerns such as how to read a building, the social functions of architecture and the hidden intentions in the built form.

Also demonstrating how material, culture can be analyzed to provide a broader, richer account of the human past, while reaching out for cross cultural comparisons, the course will concentrate on African and Arabian countries vernacular architecture with particular intention to regional formation.

### 4. Intended Learning Outcomes (ILOs)

- K1-i Demonstrate an in-depth understanding of wide range of specialized knowledge related to the built environment.
- S3-c Apply scientific research for complex issues of the built environment.
- S5-a Communicate effectively using oral & written forms.
- V1-a Demonstrate self-discipline & punctuality.
- V2-c Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.



## 5. Contents

Content	%
Cultural contents in vernacular architecture	10%
Social and economic implications and vernacular architecture	10%
Definitions (vernacular, rural, indigenous, primitive, popular, traditional, etc.)	10%
Concepts and characteristics of architecture in traditional communities	10%
Continuation of the previous lecture and evaluation.	10%
Environment and vernacular architecture	10%
The attempts of Egyptian contemporary architects in handling popular heritage of architecture	10%
Arabian case studies	10%
KSA case studies	10%
Presentation of the research	10%

## 6- Teaching and Learning Methods

Type of teaching, contact hrs.	Lecture	2	Studio	0	Training	0
	Practical	0	Project	0	Other	
Media Employed	• Whiteboard		• Working documents			
	• Data show projector		• Internet connection			

## 7- Student Assessment

Procedures used and Weight of Assessment	Continuous Asset.	40%	Final Exam	40%
	Mid-term Exam	20%	Total	100%
Forms of Examination	<ul style="list-style-type: none"> <li>• Assignments, Research and Discussions</li> <li>• Written Exam</li> <li>• Written Exam</li> </ul>			
Examination Requirements	Equipped classroom			

## 8. Reading List

Lindsay Asquith and Marcel Vellinga,(2006) Vernacular architecture in the twenty-first century: theory, education and practice, Taylor & Francis.
Fathy Hassan, (1986) Natural Energy and Vernacular Architecture: Principles and Examples with Reference to Hot Arid Climates, University Of Chicago Press.
Thomas Carter and Elizabeth Collins Cromley, Invitation to Vernacular Architecture: A Guide to the Study of Ordinary Buildings and Landscapes. Vernacular Architecture Studies, Diane Shaw, series editor. Knoxville: The University of Tennessee Press for the Vernacular Architecture Forum, 2005: xiii-43.

### Mapping CLOs, and ASIIN's Los

ASIIN LOs	a. Design competence				b. Knowledge & understanding				c. Social & human sciences							d.Environmental Science				e. Engineering Sciences					f. Design method.			g. Construction economics / management							h. Skills		
	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	
K1-i																																					
S3-c																																					
S5-a																																					
V1-a																																					
V2-c																																					

\* K: Knowledge S: Skills V: Values, autonomy, and responsibility

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