



College of
Engineering and Architecture

Department of
Architecture

**Architecture and Planning
Programme (Plan 47)**

Integrated Studio



**Architecture and Planning
Programme (Plan 47)
Integrated Studio**

2025

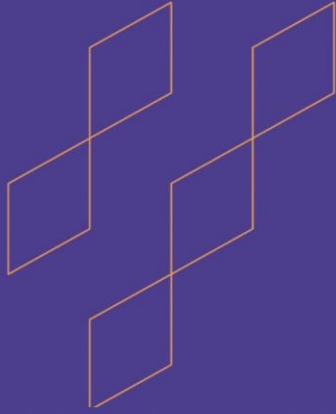


Contents

1. Architecture Track
2. Urban Design Track
3. Urban Planning Track



Integrated Studio of
Architecture
Track



Course Specification

(Bachelor)

Course Title:	Integrated Architectural Design Studio 1
Course Code:	ARC 4008
Program:	Bachelor of Architecture and Planning
Track:	(Architecture)
Department:	Architecture
College:	Engineering and Architecture
Institution:	Umm Al-Qura University
Version:	1
Last Revision Date:	Jan, 2025

* AR10

Courses Group: Des. Proc.



Table of Contents:

A. General Information about the course	3
1. Course Identification	3
2. Teaching mode	3
3. Credit Hours	4
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Student Assessment Activities	5
E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and Equipment	6
F. Assessment of Course Quality	6
G. Specification Approval Data	6





A. General information about the course:

1. Course Identification

1. Credit hours: 2 Cr. Hrs. **Contact hours:** 4 Hrs. / week

2. Course type

a. University College Department Track Supporting
 b. Required Elective

3. Year/ level at which this course is offered: Year 4 Level 8

4. Course general description:

This studio serves as an introduction to the "Integrated Architectural Design Studio 2", guiding students in selecting a project title that aligns with their design approach. The course enables students to choose and analyze the appropriate site, create a detailed space program, and define planning and design standards for the selected project. Moreover, students will learn to develop a project methodology by analyzing similar local, regional, and international projects. A comprehensive and well-written report on the cited studies and the main design concept are required as the primary deliverables for this course.

5. Pre-requirements for this course (if any):

ARC 4006	Heritage Buildings Conservation Studio	Year: 4	Level: 7
ARC 4011	Buildings Design Standards 2	Year: 4	Level: 7

6. Co- requirements for this course (if any):

None

7. Course main objective(s)

This course aims to help students define the functional requirements and relationships across various sectors of the built environment, considering both practical and environmental factors. Students will gain an understanding of the laws, rules, and regulations that govern architectural design and its impact on the built environment. They will be encouraged to make informed design decisions that balance user needs with environmental considerations, applying relevant theories and methods throughout the design process. Additionally, students will analyze key factors shaping the built environment and actively contribute to addressing contemporary architectural challenges.

2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	4	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0%
4	Distance learning	0	0%



2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
1	Lecture	0
2	Practical	0
3	Studio	60
4	Graduation project	0
5	Training	0
6	Others (specify)	--
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
Knowledge and understanding				
1.1	Define functional requirements and relationships for different sectors of the built environment. (K1-b)	K1	Interactive L. (Dialogue & discussion)	Eval. of Report
1.2	Identify the relevant laws, rules and legislations that regulate the built environment. (K3-b)	K3	Self-Learning	Eval. of Report
Skills				
2.1	Make design decisions considering user requirements and various environmental impacts. (S1-a)	S1	Self-Learning	Eval. of Project(s)
2.2	Apply the theories and methods of designing the built environment. (S1-d)	S1	Self-Learning	Eval. of Project(s)
2.3	Analyze factors shaping and influencing the built environment. (S1-l)	S1	Self-Learning	Eval. of Report
Values, autonomy, and responsibility				
3.1	Contribute actively to addressing challenges related to the built environment. (V2-a)	V2	Self-Learning	Eval. of Report





C. Course Content

No	List of Topics	Contact
1	Criteria of selecting the graduation project	4
2	Analyses of previous similar projects - Part 1	4
3	Analyses of previous similar projects - Part 2	4
4	Specifying and selecting the appropriate site	4
5	Site analysis 1	4
6	Site analysis 2	4
7	Defining the project program	4
8	Development of the project program details	4
9	Defining planning and design standards, laws, rules and legislations	4
10	Developing the first concept	4
11	Developing the second concept	4
12	Developing the third concept	4
13	Evaluating the concepts based on assessment criteria	4
14	Conceptual design project development - Part 1	4
15	Conceptual design project development - Part 2	4
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Report , Eval. of Project(s))	1 to 15	70
2	Mid-Term Exam (Eval. of Report)	7	10
3	Final Submission of the Project and Report	16	20

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Neufert, E. et al. (2023). Architects' Data. Wiley-Blackwell.
	Watson, D., & Crosbie, M. (2005). Time-saver standards for architectural design. McGraw-Hill.
Supportive References	De Chiara, J., & De Chiara, J. (2001). Time-saver standards for building types. McGraw-Hill.
Elec. Materials	Websites on the internet that are relevant to the topics of the course.
Other Materials	Multimedia associated with the text book and the relevant websites.



2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Studio
Technology equipment (Projector, smart board, software)	Data show projector
	Internet connection
Other equipment	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching strategy	Students	Indirect (Questionnaire)
Effectiveness of evaluation system	Students	Indirect (Questionnaire)
Quality of learning resources	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Faculty member	Direct (Results analysis)
Effectiveness of evaluation system	Peer reviewer	Direct (Results analysis)

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
REFERENCE NO.	Department of Architecture Council, 12-1446
DATE	April, 2025



<u>Initial Review</u> Abdullah Saeed Karban	<u>Course Coordinator</u> Ahmed M. A. Shehata	<u>Head of Department</u> Oumr Adnan Osra
<u>Head of PPC</u> Mohamed Atef Elhamy Kamel	<u>Head of C&SPC</u> Mohamed Wahba Ibrahim Khalil	<u>Head of D&QC</u> Ahmed M. A. Shehata



Bachelor of Architecture and Planning Program

General Architecture

1	Architectural Formation Principles Studio	Architectural Drawing	Design Process and Methods	Ancient Civilizations and Medieval Architecture	Design Thinking	English Language 1	The Holy Quran Tajweed
2	Fundamental Design Principles Studio	Visual Studies	Vector-based Drawing	Architectural Models Studio	English Language 2	University Skills	The Holy Quran Memorization 1
3	Small Public Buildings Design Studio	Building Construction Studio 1	3D Modeling	Buildings Design Standards 1	Environmental Control Systems	Introduction to Artificial Intelligence	The Holy Quran Memorization 2
4	Vernacular Architecture Design Studio	Building Construction Studio 2	Principles of Urban Design	Architecture of Islamic Civilization	Principles of Landscape Architecture	Values and Ethics	Completion of the Holy Quran
5	Sustainable Design Studio	Building Construction Studio 3	Introduction to Urban Design Studio	Renaissance and Pre-modern Architecture	Principles of Urban Planning Housing		General Elective
6	Long-Span Buildings Design Studio	Building Construction Studio 4	Architectural Research Methods	20th Century and Contemporary Architecture	Introduction to Urban Planning Studio	Advanced Technologies in Building Construction	Mathematics for Architects

Architecture Track

7	Heritage Buildings Conservation Studio	Working Drawings Studio 1	Creative Generative-Design	Buildings Design Standards 2	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Professional Practice Studio	Working Drawings Studio 2	Integrated Architectural Design Studio 1	Architectural Project Management 1	Elective Course 2	Applications of Building Code in Architecture	Professional Development Skills
9	Cooperative Training						
10	Integrated Architectural Design Studio 2	Economics of Architectural Projects	Professional Practice for Architects	Architectural Project Management 2	Elective Course 3	Universal Design Code	Graduation Project

Urban Design Track

7	New Areas Urban Design Studio	Landscape Design Studio 1	Urban Information Systems	Urban design methodologies and techniques	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing Areas Urban Design Studio	Landscape Design Studio 2	Integrated Urban Design Studio 1	Urban Environmental Control	Elective Course 2	Sustainable Urban Design	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Design Studio 2	Conservation of Heritage Sites	Professional Practice of Urban Design	Urban Mobility	Elective Course 3	Streetscape	Graduation Project

Urban Planning Track

7	New City Urban Planning Studio	Housing Planning Studio 1	Urban Planning Information Systems	Urban Planning Theories	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing City Development Studio	Housing Planning Studio 2	Integrated Urban Planning Studio 1	Advanced Urban Information Systems	Elective Course 2	Sustainable Cities	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Planning Studio 2	Urban Sociology and Population	Professional Practice of Urban Planning	Planning of Urban Mobility	Elective Course 3	Regional Planning	Graduation Project

Elective Courses: Architecture

7
Islamic Values in Architecture
Saudi Regional Architectural Identity
Architecture of the Two Holy Mosques
Islamic Identity in Contemporary Architecture

8
Photorealistic Rendering Techniques
Computer Modeling in Building Construction
AI Applications in Architecture
Environmental Simulation

10
Resilient Urban Design
Sustainable Landscape Architecture
Human and Urban Environment
Urban Wayfinding

Elective Courses: Urban Design

Temporary Urbanism
Humanizing the Cities
Floating Cities
City Branding

Advanced studies in Landscape Architecture
Cities Centers
Terminals Planning and Design
Selected Topics in Urban Design

Fundamentals of Real Estate Development
Urban Project Management
Crowd Management
Multicriteria Assessment of Urban Development Projects

Elective Courses: Urban Planning

Cities and Climate Change
Urban Conservation and Renewal
Urban Development in Saudi Arabia
Sustainable Urban Tourism

Smart Cities
Technology and Urban Change
Future Urbanism
Selected Topics in Urban and Regional Planning

Urban Risk Management
Urban Governance
Urban Economies
Urban Indicators



Course Specification

(Bachelor)

Course Title: **Integrated Architectural Design Studio 2**

Course Code: **ARC 4009**

Program: **Bachelor of Architecture and Planning**

Track: **(Architecture)**

Department: **Architecture**

College: **Engineering and Architecture**

Institution: **Umm Al-Qura University**

Version: **1**

Last Revision Date: **Jan, 2025**

* AR16

Courses Group: Des. Proc.



Table of Contents:

A. General Information about the course	3
1. Course Identification	3
2. Teaching mode	3
3. Credit Hours	4
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Student Assessment Activities	5
E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and Equipment	6
F. Assessment of Course Quality	6
G. Specification Approval Data	6



A. General information about the course:

1. Course Identification

1. Credit hours: 5 Cr. Hrs. **Contact hours:** 10 Hrs. / week

2. Course type

a. University College Department Track Supporting
 b. Required Elective

3. Year/ level at which this course is offered: Year 5 Level 10

4. Course general description:

This studio serves as the final graduation project where students are expected to apply the skills and knowledge gained throughout their academic journey. Each student will independently work on a project approved in the previous semester through the "Graduation Project Research" course. The course emphasizes the project's practical viability, constructability, and socio-cultural adaptability within Saudi Arabia. Students will explore design alternatives, evaluate them based on criteria, and develop a comprehensive final design proposal.

5. Pre-requirements for this course (if any):

ARC 4500	Cooperative Training	Year: 5	Level: 9
ARC 4008	Integrated Architectural Design Studio 1	Year: 4	Level: 8

6. Co- requirements for this course (if any):

None

7. Course main objective(s)

This course aims to deepen students' understanding of the theories and principles that shape the built environment, enabling them to solve complex design challenges. Students will create innovative architectural concepts and forms, applying design theories, structural systems, and material selection knowledge. They will also integrate historical, social, and cultural contexts into their design solutions, ensuring a well-rounded approach to architectural practice. Throughout the design process, students will effectively utilize digital tools, manage tasks efficiently, and work under pressure to meet deadlines, fostering both technical proficiency and professional discipline.

2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	10	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0%
4	Distance learning	0	0%



2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
1	Lecture	0
2	Practical	0
3	Studio	150
4	Graduation project	0
5	Training	0
6	Others (specify)	--
Total		150

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
Knowledge and understanding				
1.1	Demonstrate an understanding of theories of the built environment. (K1-f)	K1	Interactive L. (Dialogue & discussion)	Eval. of Project(s)
Skills				
2.1	Solve complicated problems associated with the built environment. (S1-b)	S1	Indirect L. (Problems solving)	Eval. of Project(s)
2.2	Create innovative concepts and forms for the built environment. (S1-c)	S1	Self-Learning	Eval. of Project(s)
2.3	Apply the theories and methods of designing the built environment. (S1-d)	S1	Self-Learning	Eval. of Project(s)
2.4	Apply knowledge of structural systems and materials selection. (S1-e)	S1	Self-Learning	Eval. of Project(s)
2.5	Integrate historical, social, and cultural references into the design of the built environment. (S1-f)	S1	Self-Learning	Eval. of Project(s)
Values, autonomy, and responsibility				
3.1	Mange and complete tasks efficiently under pressure and within deadlines. (V3-a)	V3	Self-Learning	Direct Observation





C. Course Content

No	List of Topics	Contact
1	Review of "Integrated Architectural Design Studio 1" outcomes	10
2	Development of plans -Part 1	10
3	Development of plans -Part 2	10
4	Development of plans -Part 3	10
5	Development of plans -Part 4	10
6	Development of plans -Part 5	10
7	Development of sections and elevations -Part 1	10
8	Development of sections and elevations -Part 2	10
9	Development of sections and elevations -Part 3	10
10	Development of sections and elevations -Part 4	10
11	Perspectives	10
12	Full project development -Part 1	10
13	Full project development -Part 2	10
14	Full project development -Part 3	10
15	Full project development -Part 4	10
Total		150

D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Project(s))	1 to 15	70
2	Mid-Term Exam (Eval. of One of the Project Stages)	7	10
3	Final Submission (Final Project Oral Exam)	16	20

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Neufert, E. et al. (2023). Architects' Data. Wiley-Blackwell.
	Watson, D., & Crosbie, M. (2005). Time-saver standards for architectural design. McGraw-Hill.
Supportive References	De Chiara, J., & De Chiara, J. (2001). Time-saver standards for building types. McGraw-Hill.
	Baker, G. (2006). Design strategies in architecture. Routledge.
Elec. Materials	Websites on the internet that are relevant to the topics of the course.
Other Materials	Multimedia associated with the text book and the relevant websites.



2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Studio
Technology equipment (Projector, smart board, software)	Data show projector
	Internet connection
Other equipment	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching strategy	Students	Indirect (Questionnaire)
Effectiveness of evaluation system	Students	Indirect (Questionnaire)
Quality of learning resources	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Faculty member	Direct (Results analysis)
Effectiveness of evaluation system	Peer reviewer	Direct (Results analysis)

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
REFERENCE NO.	Department of Architecture Council, 12-1446
DATE	April, 2025



<u>Initial Review</u> Abdullah Saeed Karban	<u>Course Coordinator</u> Ahmed M. A. Shehata	<u>Head of Department</u> Oumr Adnan Osra
<u>Head of PPC</u> Mohamed Atef Elhamy Kamel	<u>Head of C&SPC</u> Mohamed Wahba Ibrahim Khalil	<u>Head of D&QC</u> Ahmed M. A. Shehata



Bachelor of Architecture and Planning Program

General Architecture

1	Architectural Formation Principles Studio	Architectural Drawing	Design Process and Methods	Ancient Civilizations and Medieval Architecture	Design Thinking	English Language 1	The Holy Quran Tajweed
2	Fundamental Design Principles Studio	Visual Studies	Vector-based Drawing	Architectural Models Studio	English Language 2	University Skills	The Holy Quran Memorization 1
3	Small Public Buildings Design Studio	Building Construction Studio 1	3D Modeling	Buildings Design Standards 1	Environmental Control Systems	Introduction to Artificial Intelligence	The Holy Quran Memorization 2
4	Vernacular Architecture Design Studio	Building Construction Studio 2	Principles of Urban Design	Architecture of Islamic Civilization	Principles of Landscape Architecture	Values and Ethics	Completion of the Holy Quran
5	Sustainable Design Studio	Building Construction Studio 3	Introduction to Urban Design Studio	Renaissance and Pre-modern Architecture	Principles of Urban Planning Housing		General Elective
6	Long-Span Buildings Design Studio	Building Construction Studio 4	Architectural Research Methods	20th Century and Contemporary Architecture	Introduction to Urban Planning Studio	Advanced Technologies in Building Construction	Mathematics for Architects

Architecture Track

7	Heritage Buildings Conservation Studio	Working Drawings Studio 1	Creative Generative-Design	Buildings Design Standards 2	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Professional Practice Studio	Working Drawings Studio 2	Integrated Architectural Design Studio 1	Architectural Project Management 1	Elective Course 2	Applications of Building Code in Architecture	Professional Development Skills
9	Cooperative Training						
10	Integrated Architectural Design Studio 2	Economics of Architectural Projects	Professional Practice for Architects	Architectural Project Management 2	Elective Course 3	Universal Design Code	Graduation Project

Urban Design Track

7	New Areas Urban Design Studio	Landscape Design Studio 1	Urban Information Systems	Urban design methodologies and techniques	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing Areas Urban Design Studio	Landscape Design Studio 2	Integrated Urban Design Studio 1	Urban Environmental Control	Elective Course 2	Sustainable Urban Design	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Design Studio 2	Conservation of Heritage Sites	Professional Practice of Urban Design	Urban Mobility	Elective Course 3	Streetscape	Graduation Project

Urban Planning Track

7	New City Urban Planning Studio	Housing Planning Studio 1	Urban Planning Information Systems	Urban Planning Theories	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing City Development Studio	Housing Planning Studio 2	Integrated Urban Planning Studio 1	Advanced Urban Information Systems	Elective Course 2	Sustainable Cities	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Planning Studio 2	Urban Sociology and Population	Professional Practice of Urban Planning	Planning of Urban Mobility	Elective Course 3	Regional Planning	Graduation Project

Elective Courses: Architecture

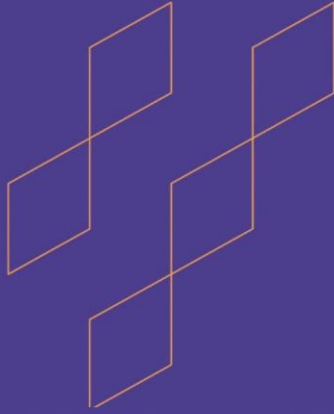
Elective Courses: Urban Design

Elective Courses: Urban Planning

7	Islamic Values in Architecture	Temporary Urbanism	Cities and Climate Change
	Saudi Regional Architectural Identity	Humanizing the Cities	Urban Conservation and Renewal
	Architecture of the Two Holy Mosques	Floating Cities	Urban Development in Saudi Arabia
	Islamic Identity in Contemporary Architecture	City Branding	Sustainable Urban Tourism
8	Photorealistic Rendering Techniques	Advanced studies in Landscape Architecture	Smart Cities
	Computer Modeling in Building Construction	Cities Centers	Technology and Urban Change
	AI Applications in Architecture	Terminals Planning and Design	Future Urbanism
	Environmental Simulation	Selected Topics in Urban Design	Selected Topics in Urban and Regional Planning
10	Resilient Urban Design	Fundamentals of Real Estate Development	Urban Risk Management
	Sustainable Landscape Architecture	Urban Project Management	Urban Governance
	Human and Urban Environment	Crowd Management	Urban Economies
	Urban Wayfinding	Multicriteria Assessment of Urban Development Projects	Urban Indicators



**Integrated Studio of
Urban Design**
Track



Course Specification

(Bachelor)

Course Title:	Integrated Urban Design Studio 1
Course Code:	ARC 4609
Program:	Bachelor of Architecture and Planning
Track:	(Urban Design)
Department:	Architecture
College:	Engineering and Architecture
Institution:	Umm Al-Qura University
Version:	1
Last Revision Date:	Jan, 2025

* UD10

Courses Group: Urban Des.



Table of Contents:

A. General Information about the course	3
1. Course Identification	3
2. Teaching mode	3
3. Credit Hours	4
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Student Assessment Activities	5
E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and Equipment	6
F. Assessment of Course Quality	6
G. Specification Approval Data	6





A. General information about the course:

1. Course Identification

1. Credit hours: 2 Cr. Hrs. **Contact hours:** 4 Hrs. / week

2. Course type

a. University College Department Track Supporting
 b. Required Elective

3. Year/ level at which this course is offered: Year 4 Level 8

4. Course general description:

This studio serves as an introduction to the "Integrated Urban Design Studio 2", guiding students in selecting a project title that aligns with their design approach. The course enables students to choose and analyze the appropriate site, create a detailed space program, and define planning and design standards for the selected project. Moreover, students will learn to develop a project methodology by analyzing similar local, regional, and international projects. A comprehensive and well-written report on the cited studies and the main design concept are required as the primary deliverables for this course

5. Pre-requirements for this course (if any):

ARC 4601 New Areas Urban Design Studio Year: 4 Level: 7

6. Co- requirements for this course (if any):

None

7. Course main objective(s)

This studio aims to equip students with the skills to analyze the functional relationships of urban design elements and understand their impact on the built environment. Students will explore urban design theories and apply them to make design decisions that consider user needs and environmental sustainability. The course encourages the use of data analysis and the formulation of results from design experiments to inform decision-making. Through this process, students will actively contribute to addressing contemporary urban design challenges, applying methodologies and techniques to develop innovative solutions for real-world urban issues.

2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	4	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0%
4	Distance learning	0	0%



2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
1	Lecture	0
2	Practical	0
3	Studio	60
4	Graduation project	0
5	Training	0
6	Others (specify)	--
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
Knowledge and understanding				
1.1	Define functional requirements and relationships for different sectors of the built environment. (K1-b)	K1	Interactive L. (Dialogue & discussion)	Eval. of Report
1.2	Demonstrate an understanding of theories of the built environment. (K1-f)	K1	Interactive L. (Dialogue & discussion)	Eval. of Report
1.3	Explain the impact of different aspects on the built environment. (K1-h)	K1	Interactive L. (Dialogue & discussion)	Eval. of Report
Skills				
2.1	Make design decisions considering user requirements and various environmental impacts. (S1-a)	S1	Self-Learning	Eval. of Project(s)
2.2	Apply the theories and methods of designing the built environment. (S1-d)	S1	Self-Learning	Eval. of Project(s)
2.3	Analyze data from multiple sources. (S3-b)	S3	Self-Learning	Eval. of Report
2.4	Formulate results of different experiments. (S3-c)	S3	Self-Learning	Eval. of Report
Values, autonomy, and responsibility				
3.1	Contribute actively to addressing challenges related to the built environment. (V2-a)	V2	Self-Learning	Eval. of Report





C. Course Content

No	List of Topics	Contact
1	Representation techniques of urban design	4
2	Selecting the graduation project	4
3	Analyses of previous similar projects - Part 1	4
4	Analyses of previous similar projects - Part 2	4
5	Analyses of previous similar projects - Part 3	4
6	Specifying and selecting the appropriate site	4
7	Identify the relevant laws, rules and legislations	4
8	Define feasible urban design problems	4
9	Collect information to understand the selected problems - Part 1	4
10	Collect information to understand the selected problems - Part 2	4
11	Analyzing the collected data to reach the main objectives	4
12	Developing three scenarios or concepts - Part 1	4
13	Developing three scenarios or concepts - Part 2	4
14	Developing three scenarios or concepts - Part 3	4
15	Evaluating the concepts based on assessment criteria	4
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Report , Eval. of Project(s))	1 to 15	70
2	Mid-Term Exam (Éval. of Report)	7	10
3	Final Submission of the Project and Report	16	20

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Watson, D. (2011). Time-Saver Standards for Urban Design. McGraw-Hill.
	Carmona, M. (2021). Public places urban spaces: The dimensions of urban design. Routledge.
Supportive References	Friedman, A. (2022). Designing Innovative Sustainable Neighborhoods. Routledge.
	Friedman, A. (2020). Fundamentals of sustainable urban design. Springer.
	Friedman, A. (2014). Fundamentals of sustainable neighbourhoods. Springer.
Elec. Materials	Websites on the internet that are relevant to the topics of the course.
Other Materials	Multimedia associated with the text book and the relevant websites.





2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Studio
Technology equipment (Projector, smart board, software)	Data show projector Internet connection
Other equipment	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching strategy	Students	Indirect (Questionnaire)
Effectiveness of evaluation system	Students	Indirect (Questionnaire)
Quality of learning resources	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Faculty member	Direct (Results analysis)
Effectiveness of evaluation system	Peer reviewer	Direct (Results analysis)




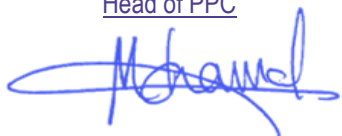
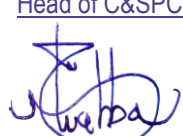
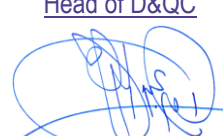
Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
REFERENCE NO.	Department of Architecture Council, 12-1446
DATE	April, 2025



<u>Initial Review</u>  Wajdy Sadagh A. Qattan	<u>Course Coordinator</u>  Adnan Yehya Alshahrani	<u>Head of Department</u>  Oumr Adnan Osra
<u>Head of PPC</u>  Mohamed Atef Elhamy Kamel	<u>Head of C&SPC</u>  Mohamed Wahba Ibrahim Khalil	<u>Head of D&QC</u>  Ahmed M. A. Shehata



Bachelor of Architecture and Planning Program

General Architecture

1	Architectural Formation Principles Studio	Architectural Drawing	Design Process and Methods	Ancient Civilizations and Medieval Architecture	Design Thinking	English Language 1	The Holy Quran Tajweed
2	Fundamental Design Principles Studio	Visual Studies	Vector-based Drawing	Architectural Models Studio	English Language 2	University Skills	The Holy Quran Memorization 1
3	Small Public Buildings Design Studio	Building Construction Studio 1	3D Modeling	Buildings Design Standards 1	Environmental Control Systems	Introduction to Artificial Intelligence	The Holy Quran Memorization 2
4	Vernacular Architecture Design Studio	Building Construction Studio 2	Principles of Urban Design	Architecture of Islamic Civilization	Principles of Landscape Architecture	Values and Ethics	Completion of the Holy Quran
5	Sustainable Design Studio	Building Construction Studio 3	Introduction to Urban Design Studio	Renaissance and Pre-modern Architecture	Principles of Urban Planning Housing		General Elective
6	Long-Span Buildings Design Studio	Building Construction Studio 4	Architectural Research Methods	20th Century and Contemporary Architecture	Introduction to Urban Planning Studio	Advanced Technologies in Building Construction	Mathematics for Architects

Architecture Track

7	Heritage Buildings Conservation Studio	Working Drawings Studio 1	Creative Generative-Design	Buildings Design Standards 2	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Professional Practice Studio	Working Drawings Studio 2	Integrated Architectural Design Studio 1	Architectural Project Management 1	Elective Course 2	Applications of Building Code in Architecture	Professional Development Skills
9	Cooperative Training						
10	Integrated Architectural Design Studio 2	Economics of Architectural Projects	Professional Practice for Architects	Architectural Project Management 2	Elective Course 3	Universal Design Code	Graduation Project

Urban Design Track

7	New Areas Urban Design Studio	Landscape Design Studio 1	Urban Information Systems	Urban design methodologies and techniques	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing Areas Urban Design Studio	Landscape Design Studio 2	Integrated Urban Design Studio 1	Urban Environmental Control	Elective Course 2	Sustainable Urban Design	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Design Studio 2	Conservation of Heritage Sites	Professional Practice of Urban Design	Urban Mobility	Elective Course 3	Streetscape	Graduation Project

Urban Planning Track

7	New City Urban Planning Studio	Housing Planning Studio 1	Urban Planning Information Systems	Urban Planning Theories	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing City Development Studio	Housing Planning Studio 2	Integrated Urban Planning Studio 1	Advanced Urban Information Systems	Elective Course 2	Sustainable Cities	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Planning Studio 2	Urban Sociology and Population	Professional Practice of Urban Planning	Planning of Urban Mobility	Elective Course 3	Regional Planning	Graduation Project

Elective Courses: Architecture

7
Islamic Values in Architecture
Saudi Regional Architectural Identity
Architecture of the Two Holy Mosques
Islamic Identity in Contemporary Architecture

8
Photorealistic Rendering Techniques
Computer Modeling in Building Construction
AI Applications in Architecture
Environmental Simulation

10
Resilient Urban Design
Sustainable Landscape Architecture
Human and Urban Environment
Urban Wayfinding

Elective Courses: Urban Design

Temporary Urbanism
Humanizing the Cities
Floating Cities
City Branding

Advanced studies in Landscape Architecture
Cities Centers
Terminals Planning and Design
Selected Topics in Urban Design

Fundamentals of Real Estate Development
Urban Project Management
Crowd Management
Multicriteria Assessment of Urban Development Projects

Elective Courses: Urban Planning

Cities and Climate Change
Urban Conservation and Renewal
Urban Development in Saudi Arabia
Sustainable Urban Tourism

Smart Cities
Technology and Urban Change
Future Urbanism
Selected Topics in Urban and Regional Planning

Urban Risk Management
Urban Governance
Urban Economies
Urban Indicators



Course Specification

(Bachelor)

Course Title:	Integrated Urban Design Studio 2
Course Code:	ARC 4614
Program:	Bachelor of Architecture and Planning
Track:	(Urban Design)
Department:	Architecture
College:	Engineering and Architecture
Institution:	Umm Al-Qura University
Version:	1
Last Revision Date:	Jan, 2025

* UD16

Courses Group: Urban Des.



Table of Contents:

A. General Information about the course	3
1. Course Identification	3
2. Teaching mode	3
3. Credit Hours	4
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Student Assessment Activities	5
E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and Equipment	6
F. Assessment of Course Quality	6
G. Specification Approval Data	6





A. General information about the course:

1. Course Identification

1. Credit hours: 5 Cr. Hrs. **Contact hours:** 10 Hrs. / week

2. Course type

a. University College Department Track Supporting
 b. Required Elective

3. Year/ level at which this course is offered: Year 5 Level 10

4. Course general description:

This studio serves as the final graduation project where students are expected to apply the skills and knowledge gained throughout their academic journey. Each student will independently work on an urban project approved in the previous semester through the "Graduation Project Research" course. Students will develop and assess urban design alternatives, selecting and refining the most effective solutions to produce a detailed final layout aimed at revitalizing and enhancing the chosen urban area.

5. Pre-requirements for this course (if any):

ARC 4613	Cooperative Training	Year: 5	Level: 9
ARC 4609	Integrated Urban Design Studio 1	Year: 4	Level: 8

6. Co- requirements for this course (if any):

None

7. Course main objective(s)

This studio is designed to help students develop a deep understanding of urban design theories and their application in solving complex problems related to the built environment. Students will create innovative concepts and forms for urban spaces, integrating design theories and methods into their projects. The course emphasizes the use of digital tools throughout the design process and encourages students to actively contribute to addressing urban challenges. Additionally, students will learn to manage tasks efficiently, working under pressure and meeting deadlines to deliver high-quality urban design solutions.

2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	10	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0%
4	Distance learning	0	0%



2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
1	Lecture	0
2	Practical	0
3	Studio	150
4	Graduation project	0
5	Training	0
6	Others (specify)	--
Total		150

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
Knowledge and understanding				
1.1	Demonstrate an understanding of theories of the built environment. (K1-f)	K1	Interactive L. (Dialogue & discussion)	Eval. of Project(s)
Skills				
2.1	Solve complicated problems associated with the built environment. (S1-b)	S1	Indirect L. (Problems solving)	Eval. of Project(s)
2.2	Create innovative concepts and forms for the built environment. (S1-c)	S1	Self-Learning	Eval. of Project(s)
2.3	Apply the theories and methods of designing the built environment. (S1-d)	S1	Self-Learning	Eval. of Project(s)
2.4	Effectively use digital skills throughout the design process of the built environment. (S6-a)	S6	Self-Learning	Eval. of Project(s)
	()			
Values, autonomy, and responsibility				
3.1	Contribute actively to addressing challenges related to the built environment. (V2-a)	V2	Self-Learning	Eval. of Project(s)
3.2	Manage and complete tasks efficiently under pressure and within deadlines. (V3-a)	V3	Self-Learning	Assignments & Tasks





C. Course Content

No	List of Topics	Contact
1	Development of various aspects of the selected alternative - Part 1	10
2	Development of various aspects of the selected alternative - Part 2	10
3	Development of various aspects of the selected alternative - Part 3	10
4	Development of various aspects of the selected alternative - Part 4	10
5	Development of various aspects of the selected alternative - Part 5	10
6	Development of various aspects of the selected alternative - Part 6	10
7	Development of various aspects of the selected alternative - Part 7	10
8	Development of various aspects of the selected alternative - Part 8	10
9	Preparing an implementation framework	10
10	Defining appropriate policies, actions and legal instruments- Part 1	10
11	Defining appropriate policies, actions and legal instruments- Part 2	10
12	Detailed urban design - Part 2	10
13	Project Development - Part 1	10
14	Project Development - Part 2	10
15	Project Development - Part 3	10
Total		150

D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Project(s), Assignments & Tasks)	1 to 15	70
2	Mid-Term Exam (Eval. of One of the Project Stages)	7	10
3	Final Submission (Final Project Oral Exam)	16	20

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Watson, D. (2011). Time-Saver Standards for Urban Design. McGraw-Hill.
	Carmona, M. (2021). Public places urban spaces: The dimensions of urban design. Routledge.
Supportive References	Friedman, A. (2022). Designing Innovative Sustainable Neighborhoods. Routledge.
	Friedman, A. (2020). Fundamentals of sustainable urban design. Springer.
	Friedman, A. (2014). Fundamentals of sustainable neighbourhoods. Springer.
Elec. Materials	Websites on the internet that are relevant to the topics of the course.
Other Materials	Multimedia associated with the text book and the relevant websites.



2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Studio
Technology equipment (Projector, smart board, software)	Data show projector
	Internet connection
Other equipment	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching strategy	Students	Indirect (Questionnaire)
Effectiveness of evaluation system	Students	Indirect (Questionnaire)
Quality of learning resources	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Faculty member	Direct (Results analysis)
Effectiveness of evaluation system	Peer reviewer	Direct (Results analysis)

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
REFERENCE NO.	Department of Architecture Council, 12-1446
DATE	April, 2025



<u>Initial Review</u> Wajdy Sadagh A. Qattan	<u>Course Coordinator</u> Adnan Yehya Alshahrani	<u>Head of Department</u> Oumr Adnan Osra
<u>Head of PPC</u> Mohamed Atef Elhamy Kamel	<u>Head of C&SPC</u> Mohamed Wahba Ibrahim Khalil	<u>Head of D&QC</u> Ahmed M. A. Shehata



Bachelor of Architecture and Planning Program

General Architecture

1	Architectural Formation Principles Studio	Architectural Drawing	Design Process and Methods	Ancient Civilizations and Medieval Architecture	Design Thinking	English Language 1	The Holy Quran Tajweed
2	Fundamental Design Principles Studio	Visual Studies	Vector-based Drawing	Architectural Models Studio	English Language 2	University Skills	The Holy Quran Memorization 1
3	Small Public Buildings Design Studio	Building Construction Studio 1	3D Modeling	Buildings Design Standards 1	Environmental Control Systems	Introduction to Artificial Intelligence	The Holy Quran Memorization 2
4	Vernacular Architecture Design Studio	Building Construction Studio 2	Principles of Urban Design	Architecture of Islamic Civilization	Principles of Landscape Architecture	Values and Ethics	Completion of the Holy Quran
5	Sustainable Design Studio	Building Construction Studio 3	Introduction to Urban Design Studio	Renaissance and Pre-modern Architecture	Principles of Urban Planning Housing		General Elective
6	Long-Span Buildings Design Studio	Building Construction Studio 4	Architectural Research Methods	20th Century and Contemporary Architecture	Introduction to Urban Planning Studio	Advanced Technologies in Building Construction	Mathematics for Architects

Architecture Track

7	Heritage Buildings Conservation Studio	Working Drawings Studio 1	Creative Generative-Design	Buildings Design Standards 2	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Professional Practice Studio	Working Drawings Studio 2	Integrated Architectural Design Studio 1	Architectural Project Management 1	Elective Course 2	Applications of Building Code in Architecture	Professional Development Skills
9	Cooperative Training						
10	Integrated Architectural Design Studio 2	Economics of Architectural Projects	Professional Practice for Architects	Architectural Project Management 2	Elective Course 3	Universal Design Code	Graduation Project

Urban Design Track

7	New Areas Urban Design Studio	Landscape Design Studio 1	Urban Information Systems	Urban design methodologies and techniques	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing Areas Urban Design Studio	Landscape Design Studio 2	Integrated Urban Design Studio 1	Urban Environmental Control	Elective Course 2	Sustainable Urban Design	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Design Studio 2	Conservation of Heritage Sites	Professional Practice of Urban Design	Urban Mobility	Elective Course 3	Streetscape	Graduation Project

Urban Planning Track

7	New City Urban Planning Studio	Housing Planning Studio 1	Urban Planning Information Systems	Urban Planning Theories	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing City Development Studio	Housing Planning Studio 2	Integrated Urban Planning Studio 1	Advanced Urban Information Systems	Elective Course 2	Sustainable Cities	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Planning Studio 2	Urban Sociology and Population	Professional Practice of Urban Planning	Planning of Urban Mobility	Elective Course 3	Regional Planning	Graduation Project

Elective Courses: Architecture

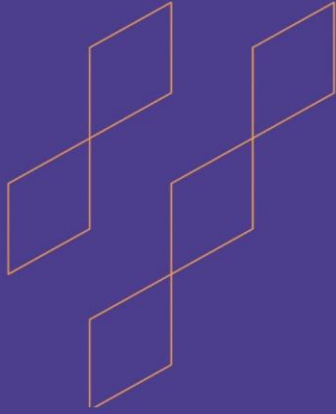
Elective Courses: Urban Design

Elective Courses: Urban Planning

7	Islamic Values in Architecture	Temporary Urbanism	Cities and Climate Change
	Saudi Regional Architectural Identity	Humanizing the Cities	Urban Conservation and Renewal
	Architecture of the Two Holy Mosques	Floating Cities	Urban Development in Saudi Arabia
	Islamic Identity in Contemporary Architecture	City Branding	Sustainable Urban Tourism
8	Photorealistic Rendering Techniques	Advanced studies in Landscape Architecture	Smart Cities
	Computer Modeling in Building Construction	Cities Centers	Technology and Urban Change
	AI Applications in Architecture	Terminals Planning and Design	Future Urbanism
10	Environmental Simulation	Selected Topics in Urban Design	Selected Topics in Urban and Regional Planning
	Resilient Urban Design	Fundamentals of Real Estate Development	Urban Risk Management
	Sustainable Landscape Architecture	Urban Project Management	Urban Governance
	Human and Urban Environment	Crowd Management	Urban Economies
	Urban Wayfinding	Multicriteria Assessment of Urban Development Projects	Urban Indicators



Integrated Studio of
Urban Planning
Track



Course Specification

(Bachelor)

Course Title:	Integrated Urban Planning Studio 1
Course Code:	ARC 4709
Program:	Bachelor of Architecture and Planning
Track:	(Urban Planning)
Department:	Architecture
College:	Engineering and Architecture
Institution:	Umm Al-Qura University
Version:	1
Last Revision Date:	Jan, 2025

* UP10

Courses Group: Urban Plan.



Table of Contents:

A. General Information about the course	3
1. Course Identification	3
2. Teaching mode	3
3. Credit Hours	4
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Student Assessment Activities	5
E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and Equipment	6
F. Assessment of Course Quality	6
G. Specification Approval Data	6





A. General information about the course:

1. Course Identification

1. Credit hours: 2 Cr. Hrs. **Contact hours:** 4 Hrs. / week

2. Course type

a. University College Department Track Supporting
b. Required Elective

3. Year/ level at which this course is offered: Year 4 Level 8

4. Course general description:

This course introduces students to the process of selecting and developing their graduation project in urban planning. Students will choose a project title aligned with their approach. They will compare potential locations, select the most suitable site, and analyze it. The course emphasizes the study and analysis of past experiences and case studies to extract valuable lessons. Students will also gather the necessary data for their project and submit a comprehensive report on the analyzed studies.

5. Pre-requirements for this course (if any):

ARC 4701 New City Urban Planning Studio Year: 4 Level: 7

6. Co- requirements for this course (if any):

None

7. Course main objective(s)

The course aims to equip students with the skills to define functional requirements and relationships in sustainable urban planning, understand various urban systems, and make design decisions based on user needs and environmental impacts. Students will apply planning theories, analyze factors shaping the built environment, interpret data from multiple sources, and formulate experimental results. Additionally, they will actively address challenges related to the built environment.

2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	4	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0%
4	Distance learning	0	0%



2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
1	Lecture	0
2	Practical	0
3	Studio	60
4	Graduation project	0
5	Training	0
6	Others (specify)	--
Total		60

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
Knowledge and understanding				
1.1	Define functional requirements and relationships for different sectors of the built environment. (K1-b)	K1	Interactive L. (Dialogue & discussion)	Eval. of Report
1.2	Demonstrate an understanding of various types of infrastructure systems. (K2-b)	K2	Interactive L. (Dialogue & discussion)	Eval. of Report
Skills				
2.1	Make design decisions considering user requirements and various environmental impacts. (S1-a)	S1	Self-Learning	Eval. of Project(s)
2.2	Apply the theories and methods of designing the built environment. (S1-d)	S1	Self-Learning	Eval. of Project(s)
2.3	Analyze factors shaping and influencing the built environment. (S1-l)	S1	Self-Learning	Eval. of Report
2.4	Analyze data from multiple sources. (S3-b)	S3	Self-Learning	Eval. of Report
2.5	Formulate results of different experiments. (S3-c)	S3	Self-Learning	Eval. of Report
Values, autonomy, and responsibility				
3.1	Contribute actively to addressing challenges related to the built environment. (V2-a)	V2	Self-Learning	Eval. of Report



C. Course Content

No	List of Topics	Contact
1	Selecting the graduation project	4
2	Analyses of previous similar projects - Part 1	4
3	Analyses of previous similar projects - Part 2	4
4	Analyses of previous similar projects - Part 3	4
5	Specifying and selecting the appropriate site	4
6	Defining required statistics, laws, rules and legislations	4
7	Define feasible urban planning problems	4
8	Collect information to understand the selected problems - Part 1	4
9	Collect information to understand the selected problems - Part 2	4
10	Analyzing the collected data to reach the main objectives - Part 1	4
11	Analyzing the collected data to reach the main objectives - Part 2	4
12	Developing three scenarios or concepts - Part 1	4
13	Developing three scenarios or concepts - Part 2	4
14	Developing three scenarios or concepts - Part 3	4
15	Evaluating the concepts based on assessment criteria	4
Total		60

D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Report , Eval. of Project(s))	1 to 15	70
2	Mid-Term Exam (Éval. of Report)	7	10
3	Final Submission of the Project and Report	16	20

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Butler, K. (2012). Planning and Urban Design Standards. Wiley. وزارة الشؤون البلدية والقروية. (2016). المعايير التخطيطية للخدمات العامة الإقليمية والمحلية ومستوياتها المختلفة.
Supportive References	Levy, J. (2016). Contemporary urban planning. Routledge. Weber, R. & Randal, C. (2015). The oxford handbook of urban planning. 2015. EL Wakil, S. (2006). Urban Planning: Principles, Basics & Applications.
Elec. Materials	Websites on the internet that are relevant to the topics of the course.
Other Materials	Multimedia associated with the text book and the relevant websites.



2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Studio
Technology equipment (Projector, smart board, software)	Data show projector Internet connection
Other equipment	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching strategy	Students	Indirect (Questionnaire)
Effectiveness of evaluation system	Students	Indirect (Questionnaire)
Quality of learning resources	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Faculty member	Direct (Results analysis)
Effectiveness of evaluation system	Peer reviewer	Direct (Results analysis)

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
REFERENCE NO.	Department of Architecture Council, 12-1446
DATE	April, 2025



<u>Initial Review</u>  Mohamed Wahba Ibrahim Khalil	<u>Course Coordinator</u>  Abdulrahman Abdulaziz Majrashi	<u>Head of Department</u>  Oumr Adnan Osra
<u>Head of PPC</u>  Mohamed Atef Elhamy Kamel	<u>Head of C&SPC</u>  Mohamed Wahba Ibrahim Khalil	<u>Head of D&QC</u>  Ahmed M. A. Shehata



Bachelor of Architecture and Planning Program

General Architecture

1	Architectural Formation Principles Studio	Architectural Drawing	Design Process and Methods	Ancient Civilizations and Medieval Architecture	Design Thinking	English Language 1	The Holy Quran Tajweed
2	Fundamental Design Principles Studio	Visual Studies	Vector-based Drawing	Architectural Models Studio	English Language 2	University Skills	The Holy Quran Memorization 1
3	Small Public Buildings Design Studio	Building Construction Studio 1	3D Modeling	Buildings Design Standards 1	Environmental Control Systems	Introduction to Artificial Intelligence	The Holy Quran Memorization 2
4	Vernacular Architecture Design Studio	Building Construction Studio 2	Principles of Urban Design	Architecture of Islamic Civilization	Principles of Landscape Architecture	Values and Ethics	Completion of the Holy Quran
5	Sustainable Design Studio	Building Construction Studio 3	Introduction to Urban Design Studio	Renaissance and Pre-modern Architecture	Principles of Urban Planning Housing		General Elective
6	Long-Span Buildings Design Studio	Building Construction Studio 4	Architectural Research Methods	20th Century and Contemporary Architecture	Introduction to Urban Planning Studio	Advanced Technologies in Building Construction	Mathematics for Architects

Architecture Track

7	Heritage Buildings Conservation Studio	Working Drawings Studio 1	Creative Generative-Design	Buildings Design Standards 2	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Professional Practice Studio	Working Drawings Studio 2	Integrated Architectural Design Studio 1	Architectural Project Management 1	Elective Course 2	Applications of Building Code in Architecture	Professional Development Skills
9	Cooperative Training						
10	Integrated Architectural Design Studio 2	Economics of Architectural Projects	Professional Practice for Architects	Architectural Project Management 2	Elective Course 3	Universal Design Code	Graduation Project

Urban Design Track

7	New Areas Urban Design Studio	Landscape Design Studio 1	Urban Information Systems	Urban design methodologies and techniques	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing Areas Urban Design Studio	Landscape Design Studio 2	Integrated Urban Design Studio 1	Urban Environmental Control	Elective Course 2	Sustainable Urban Design	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Design Studio 2	Conservation of Heritage Sites	Professional Practice of Urban Design	Urban Mobility	Elective Course 3	Streetscape	Graduation Project

Urban Planning Track

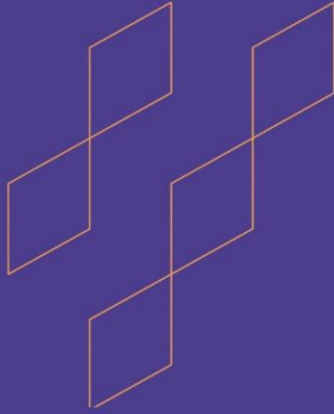
7	New City Urban Planning Studio	Housing Planning Studio 1	Urban Planning Information Systems	Urban Planning Theories	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing City Development Studio	Housing Planning Studio 2	Integrated Urban Planning Studio 1	Advanced Urban Information Systems	Elective Course 2	Sustainable Cities	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Planning Studio 2	Urban Sociology and Population	Professional Practice of Urban Planning	Planning of Urban Mobility	Elective Course 3	Regional Planning	Graduation Project

Elective Courses: Architecture

Elective Courses: Urban Design

Elective Courses: Urban Planning

7	Islamic Values in Architecture	Temporary Urbanism	Cities and Climate Change
	Saudi Regional Architectural Identity	Humanizing the Cities	Urban Conservation and Renewal
	Architecture of the Two Holy Mosques	Floating Cities	Urban Development in Saudi Arabia
	Islamic Identity in Contemporary Architecture	City Branding	Sustainable Urban Tourism
8	Photorealistic Rendering Techniques	Advanced studies in Landscape Architecture	Smart Cities
	Computer Modeling in Building Construction	Cities Centers	Technology and Urban Change
	AI Applications in Architecture	Terminals Planning and Design	Future Urbanism
10	Environmental Simulation	Selected Topics in Urban Design	Selected Topics in Urban and Regional Planning
	Resilient Urban Design	Fundamentals of Real Estate Development	Urban Risk Management
	Sustainable Landscape Architecture	Urban Project Management	Urban Governance
	Human and Urban Environment	Crowd Management	Urban Economies
	Urban Wayfinding	Multicriteria Assessment of Urban Development Projects	Urban Indicators



Course Specification

(Bachelor)

Course Title:	Integrated Urban Planning Studio 2
Course Code:	ARC 4714
Program:	Bachelor of Architecture and Planning
Track:	(Urban Planning)
Department:	Architecture
College:	Engineering and Architecture
Institution:	Umm Al-Qura University
Version:	1
Last Revision Date:	Jan, 2025

* UP16

Courses Group: Urban Plan.



Table of Contents:

A. General Information about the course	3
1. Course Identification	3
2. Teaching mode	3
3. Credit Hours	4
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
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E. Learning Resources and Facilities	5
1. References and Learning Resources	5
2. Required Facilities and Equipment	6
F. Assessment of Course Quality	6
G. Specification Approval Data	6



A. General information about the course:

1. Course Identification

1. Credit hours: 5 Cr. Hrs. Contact hours: 10 Hrs. / week

2. Course type

a. University College Department Track Supporting
 b. Required Elective

3. Year/ level at which this course is offered: Year 5 Level 10

4. Course general description:

This studio is considered a graduation project. Students will continue what was achieved in the "Graduation Project Research" course. In this phase and through SWOT analysis, students will establish a vision and objectives. Based on previous findings and planning alternatives, they will develop a strategic plan addressing suggested land use, services, and road networks to promote sustainable development.

5. Pre-requirements for this course (if any):

ARC 4500	Cooperative Training	Year: 5	Level: 9
ARC 4709	Integrated Urban Planning Studio 1	Year: 4	Level: 8

6. Co- requirements for this course (if any):

None

7. Course main objective(s)

This course aims to help students demonstrate an understanding of various aspects that influence planning, solve complex problems associated with it, and create innovative concepts. Students will apply urban planning theories and methods to their projects, effectively use digital skills throughout the design process, and contribute actively to addressing urban challenges. The course also emphasizes time management, requiring students to manage and complete tasks efficiently under pressure and within deadlines.

2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	10	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	0	0%
4	Distance learning	0	0%



2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
1	Lecture	0
2	Practical	0
3	Studio	150
4	Graduation project	0
5	Training	0
6	Others (specify)	--
Total		150

B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
Knowledge and understanding				
1.1	Demonstrate an understanding of various types of infrastructure systems. (K2-b)	K2	Interactive L. (Dialogue & discussion)	Eval. of Project(s)
Skills				
2.1	Solve complicated problems associated with the built environment. (S1-b)	S1	Indirect L. (Problems solving)	Eval. of Project(s)
2.2	Create innovative concepts and forms for the built environment. (S1-c)	S1	Self-Learning	Eval. of Project(s)
2.3	Apply the theories and methods of designing the built environment. (S1-d)	S1	Self-Learning	Eval. of Project(s)
2.4	Effectively use digital skills throughout the design process of the built environment. (S6-a)	S6	Self-Learning	Eval. of Project(s)
Values, autonomy, and responsibility				
3.1	Contribute actively to addressing challenges related to the built environment. (V2-a)	V2	Self-Learning	Eval. of Project(s)
3.2	Manage and complete tasks efficiently under pressure and within deadlines. (V3-a)	V3	Self-Learning	Direct Observation



C. Course Content

No	List of Topics	Contact
1	Development of various aspects of the selected alternative - Part 1	10
2	Development of various aspects of the selected alternative - Part 2	10
3	Development of various aspects of the selected alternative - Part 3	10
4	Development of various aspects of the selected alternative - Part 4	10
5	Development of various aspects of the selected alternative - Part 5	10
6	Development of various aspects of the selected alternative - Part 6	10
7	Preparing an implementation framework- Part 1	10
8	Preparing an implementation framework- Part 2	10
9	Defining appropriate policies, actions and legal instruments- Part 1	10
10	Defining appropriate policies, actions and legal instruments- Part 2	10
11	Project Development - Part 1	10
12	Project Development - Part 2	10
13	Project Development - Part 3	10
14	Project Development - Part 4	10
15	Project Development - Part 5	10
Total		150

D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Project(s))	1 to 15	70
2	Mid-Term Exam (Eval. of One of the Project Stages)	7	10
3	Final Submission (Final Project Oral Exam)	16	20

*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.)

E. Learning Resources and Facilities

1. References and Learning Resources

Essential References	Butler, K. (2012). Planning and Urban Design Standards. Wiley.
	ELWakil, S. (2006). Urban Planning: Principles, Basics & Applications.
Supportive References	Levy, J. (2016). Contemporary urban planning. Routledge.
	Weber, R. & Randal, C. (2015). The oxford handbook of urban planning. 2015.
Elec. Materials	Websites on the internet that are relevant to the topics of the course.
Other Materials	Multimedia associated with the text book and the relevant websites.



2. Required Facilities and equipment

Items	Resources
Facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Studio
Technology equipment (Projector, smart board, software)	Data show projector Internet connection
Other equipment	None

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching strategy	Students	Indirect (Questionnaire)
Effectiveness of evaluation system	Students	Indirect (Questionnaire)
Quality of learning resources	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Students	Indirect (Questionnaire)
Extent of achievement of CLOs	Faculty member	Direct (Results analysis)
Effectiveness of evaluation system	Peer reviewer	Direct (Results analysis)

Assessor (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

G. Specification Approval Data

COUNCIL /COMMITTEE	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
REFERENCE NO.	Department of Architecture Council, 12-1446
DATE	April, 2025



<u>Initial Review</u> Mohamed Wahba Ibrahim Khalil	<u>Course Coordinator</u> Abdulrahman Abdulaziz Majrashi	<u>Head of Department</u> Oumr Adnan Osra
<u>Head of PPC</u> Mohamed Atef Elhamy Kamel	<u>Head of C&SPC</u> Mohamed Wahba Ibrahim Khalil	<u>Head of D&QC</u> Ahmed M. A. Shehata



Bachelor of Architecture and Planning Program

General Architecture

1	Architectural Formation Principles Studio	Architectural Drawing	Design Process and Methods	Ancient Civilizations and Medieval Architecture	Design Thinking	English Language 1	The Holy Quran Tajweed
2	Fundamental Design Principles Studio	Visual Studies	Vector-based Drawing	Architectural Models Studio	English Language 2	University Skills	The Holy Quran Memorization 1
3	Small Public Buildings Design Studio	Building Construction Studio 1	3D Modeling	Buildings Design Standards 1	Environmental Control Systems	Introduction to Artificial Intelligence	The Holy Quran Memorization 2
4	Vernacular Architecture Design Studio	Building Construction Studio 2	Principles of Urban Design	Architecture of Islamic Civilization	Principles of Landscape Architecture	Values and Ethics	Completion of the Holy Quran
5	Sustainable Design Studio	Building Construction Studio 3	Introduction to Urban Design Studio	Renaissance and Pre-modern Architecture	Principles of Urban Planning Housing		General Elective
6	Long-Span Buildings Design Studio	Building Construction Studio 4	Architectural Research Methods	20th Century and Contemporary Architecture	Introduction to Urban Planning Studio	Advanced Technologies in Building Construction	Mathematics for Architects

Architecture Track

7	Heritage Buildings Conservation Studio	Working Drawings Studio 1	Creative Generative-Design	Buildings Design Standards 2	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Professional Practice Studio	Working Drawings Studio 2	Integrated Architectural Design Studio 1	Architectural Project Management 1	Elective Course 2	Applications of Building Code in Architecture	Professional Development Skills
9	Cooperative Training						
10	Integrated Architectural Design Studio 2	Economics of Architectural Projects	Professional Practice for Architects	Architectural Project Management 2	Elective Course 3	Universal Design Code	Graduation Project

Urban Design Track

7	New Areas Urban Design Studio	Landscape Design Studio 1	Urban Information Systems	Urban design methodologies and techniques	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing Areas Urban Design Studio	Landscape Design Studio 2	Integrated Urban Design Studio 1	Urban Environmental Control	Elective Course 2	Sustainable Urban Design	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Design Studio 2	Conservation of Heritage Sites	Professional Practice of Urban Design	Urban Mobility	Elective Course 3	Streetscape	Graduation Project

Urban Planning Track

7	New City Urban Planning Studio	Housing Planning Studio 1	Urban Planning Information Systems	Urban Planning Theories	Elective Course 1	The Family in Islam	Principles of Statistics for Architects
8	Existing City Development Studio	Housing Planning Studio 2	Integrated Urban Planning Studio 1	Advanced Urban Information Systems	Elective Course 2	Sustainable Cities	Professional Development Skills
9	Cooperative Training						
10	Integrated Urban Planning Studio 2	Urban Sociology and Population	Professional Practice of Urban Planning	Planning of Urban Mobility	Elective Course 3	Regional Planning	Graduation Project

Elective Courses: Architecture

7 Islamic Values in Architecture
Saudi Regional Architectural Identity
Architecture of the Two Holy Mosques
Islamic Identity in Contemporary Architecture

8 Photorealistic Rendering Techniques
Computer Modeling in Building Construction
AI Applications in Architecture
Environmental Simulation

10 Resilient Urban Design
Sustainable Landscape Architecture
Human and Urban Environment
Urban Wayfinding

Elective Courses: Urban Design

Temporary Urbanism
Humanizing the Cities
Floating Cities
City Branding

Advanced studies in Landscape Architecture
Cities Centers
Terminals Planning and Design
Selected Topics in Urban Design

Fundamentals of Real Estate Development
Urban Project Management
Crowd Management
Multicriteria Assessment of Urban Development Projects

Elective Courses: Urban Planning

Cities and Climate Change
Urban Conservation and Renewal
Urban Development in Saudi Arabia
Sustainable Urban Tourism

Smart Cities
Technology and Urban Change
Future Urbanism
Selected Topics in Urban and Regional Planning

Urban Risk Management
Urban Governance
Urban Economies
Urban Indicators