



College of  
**Engineering and Architecture**

Department of  
**Architecture**

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

**Graduation Project**



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

2025

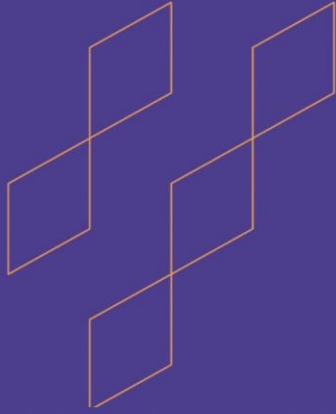


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1. Architecture Track
2. Urban Design Track
3. Urban Planning Track



**Graduation Project of**  
**Architecture**  
Track



# Course Specification

## (Bachelor)

Course Title:	Graduation Project
Course Code:	ARC 4208
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

\* AR22

Courses Group: Arc. Hist. & Th.



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## A. General information about the course:

### 1. Course Identification

**1. Credit hours:** 3 Cr. Hrs. **Contact hours:** 3 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 capstone course explores architectural challenges related to Hajj, Umrah, and visit, focusing on heritage buildings in Makkah, Madinah, and the holy sites. Topics include the documentation and architectural survey of these sites, housing for pilgrims, and strategies for increasing capacity in areas like Mina through vertical and horizontal expansion. Students will engage in individual research, applying architectural principles to real-world challenges related to these sacred sites.

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

ARC 4500 Cooperative Training Year: 5 Level: 9

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

None

### 7. Course main objective(s)

This course aims to enhance students' research skills by applying architectural principles to real-world challenges related to sacred sites. Students will develop the ability to independently seek and analyze relevant data, using both qualitative and quantitative methods to address complex issues. The course emphasizes academic integrity and encourages active contributions to solving architectural problems, particularly in heritage conservation and spatial expansion. It also fosters critical thinking and problem-solving, preparing students to make meaningful contributions to the built environment through their research.

### 2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>	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	0
4	Graduation project	45
5	Training	0
6	Others (specify)	--
<b>Total</b>		<b>45</b>

## 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 research and inquiry methodologies. (K5-a)	<b>K5</b>	Self-Learning (Capstone project)	Eval. of Research
Skills				
2.1	Independently seek knowledge and use it appropriately. (S3-a)	<b>S3</b>	Self-Learning (Capstone project)	Eval. of Research
2.2	Analyze data from multiple sources. (S3-b)	<b>S3</b>	Self-Learning (Capstone project)	Eval. of Research
2.3	Formulate results of different experiments. (S3-c)	<b>S3</b>	Self-Learning (Capstone project)	Eval. of Research
2.4	Use mathematical operations and quantitative methods to process data and information. (S7-a)	<b>S7</b>	Self-Learning (Capstone project)	Eval. of Research
Values, autonomy, and responsibility				
3.1	Demonstrate commitment to honesty and academic integrity. (V1-c)	<b>V1</b>	Self-Learning (Capstone project)	Eval. of Research
3.2	Contribute actively to addressing challenges related to the built environment. (V2-a)	<b>V2</b>	Self-Learning (Capstone project)	Eval. of Research





## C. Course Content

No	List of Topics	Contact
1	Introduction to the course	3
2	Research title selection	3
3	Analyze relevant research papers - Part 1	3
4	Analyze relevant research papers - Part 2	3
5	Problem statement and methodology selection	3
6	Literature review - Part 1	3
7	Literature review - Part 2	3
8	Literature review - Part 3	3
9	Applying the methodology - part 1	3
10	Applying the methodology - part 2	3
11	Applying the methodology - part 3	3
12	The conclusion and recommendations	3
13	Research refining - Part 1	3
14	Research refining - Part 2	3
15	Research refining - Part 3	3
<b>Total</b>		<b>45</b>

## D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Research)	1 to 15	40
2	Mid-Term Exam (Eval. of Research)	7	20
3	Final Capstone Submission	16	40

\*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	معهد خادم الحرمين الشريفين لأبحاث الحج والعمرة. الملتقيات العلمية لأبحاث الحج والعمرة والزيارة. Uqu.edu.sa. (2022). from <a href="https://uqu.edu.sa/hajj/107535">https://uqu.edu.sa/hajj/107535</a> .
Supportive References	
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
<b>Facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Classroom
<b>Technology equipment</b> (Projector, smart board, software)	Data show projector
	Internet connection
<b>Other equipment</b>	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

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



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



# 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

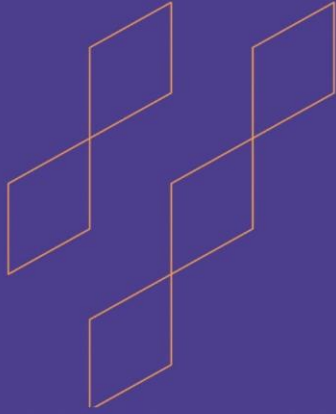
Cities and Climate Change  
Urban Conservation and Renewal  
Urban Development in Saudi Arabia  
Sustainable Urban Tourism

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

Urban Risk Management  
Urban Governance  
Urban Economies  
Urban Indicators



**Graduation Project of**  
**Urban Design**  
Track



# Course Specification

## (Bachelor)

Course Title:	Graduation Project
Course Code:	ARC 4619
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

\* UD22

Courses Group: Urban Des.



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1. References and Learning Resources .....	5
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<b>G. Specification Approval Data</b> .....	6





## A. General information about the course:

### 1. Course Identification

**1. Credit hours:** 3 Cr. Hrs. **Contact hours:** 3 Hrs. / week

### 2. Course type

a. University	<input type="checkbox"/>	College	<input type="checkbox"/>	Department	<input type="checkbox"/>	Track	<input checked="" type="checkbox"/>	Supporting	<input type="checkbox"/>
b. Required	<input checked="" type="checkbox"/>	Elective	<input type="checkbox"/>						

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

### 4. Course general description:

This capstone course addresses urban design challenges and solutions specific to Makkah, Madinah, and the holy sites, focusing on enhancing the visual and functional aspects of these sacred spaces. Through individual research, students will apply urban design principles to address real-world issues in these significant areas. Topics include, for instance, approaches to improve open spaces, pilgrims and Umrah performers' behavior, pedestrian accessibility, and the application of solar energy solutions in the holy sites.

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

ARC 4613 Cooperative Training Year: 5 Level: 9

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

None

### 7. Course main objective(s)

This course aims to enhance students' research skills by applying urban principles to real-world challenges related to sacred sites. Students will develop the ability to independently seek and analyze relevant data, using both qualitative and quantitative methods to address complex urban issues. The course emphasizes academic integrity and encourages active contributions to solving urban problems, particularly in heritage conservation and spatial expansion. It also fosters critical thinking and problem-solving, preparing students to make meaningful contributions to the built environment through their research.

### 2. Teaching mode (Mark all that apply)

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



## 2. Contact Hours (Based on the academic semester)

No.	Activity	Contact Hours
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3	Studio	0
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6	Others (specify)	--
<b>Total</b>		<b>45</b>

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

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
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2.3	Formulate results of different experiments. (S3-c)	<b>S3</b>	Self-Learning (Capstone project)	Eval. of Research
2.4	Use mathematical operations and quantitative methods to process data and information. (S7-a)	<b>S7</b>	Self-Learning (Capstone project)	Eval. of Research
Values, autonomy, and responsibility				
3.1	Demonstrate commitment to honesty and academic integrity. (V1-c)	<b>V1</b>	Self-Learning (Capstone project)	Eval. of Research
3.2	Contribute actively to addressing challenges related to the built environment. (V2-a)	<b>V2</b>	Self-Learning (Capstone project)	Eval. of Research





## C. Course Content

No	List of Topics	Contact
1	Introduction to the course	3
2	Research title selection	3
3	Analyze relevant research papers - Part 1	3
4	Analyze relevant research papers - Part 2	3
5	Problem statement and methodology	3
6	Literature review - Part 1	3
7	Literature review - Part 2	3
8	Literature review - Part 3	3
9	Applying the methodology - part 1	3
10	Applying the methodology - part 2	3
11	Applying the methodology - part 3	3
12	The conclusion and recommendations	3
13	Research refining - Part 1	3
14	Research refining - Part 2	3
15	Research refining - Part 3	3
<b>Total</b>		<b>45</b>

## D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Research)	1 to 15	40
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\*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	معهد خادم الحرمين الشريفين لأبحاث الحج والعمرة. الملتقيات العلمية لأبحاث الحج والعمرة والزيارة. Uqu.edu.sa. (2022). from <a href="https://uqu.edu.sa/hajj/107535">https://uqu.edu.sa/hajj/107535</a> .
Supportive References	
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
<b>Facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Classroom
<b>Technology equipment</b> (Projector, smart board, software)	Data show projector
	Internet connection
<b>Other equipment</b>	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

<b>COUNCIL /COMMITTEE</b>	Programs Preparation Committee (PPC) Curriculum and Study Plans Committee (C&SPC) Development and Quality Committee (D&QC) Department of Architecture Council
<b>REFERENCE NO.</b>	Department of Architecture Council, 12-1446
<b>DATE</b>	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&amp;SPC</u>  Mohamed Wahba Ibrahim Khalil	<u>Head of D&amp;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

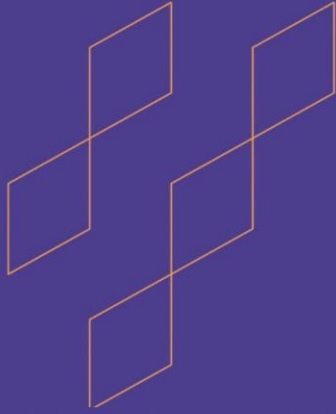
### Elective Courses: Urban Design

### 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



**Graduation Project of**  
**Urban Planning**  
Track



# Course Specification

## (Bachelor)

Course Title:	Graduation Project
Course Code:	ARC 4719
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

\* UP22

Courses Group: Urban Plan.



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## A. General information about the course:

### 1. Course Identification

**1. Credit hours:** 3 Cr. Hrs. **Contact hours:** 3 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 capstone course investigates urban planning challenges and solutions specific to Makkah, Madinah, and the holy sites, focusing on approaches within the integrated vision for Hajj, Umrah, and visit. Students will explore various planning strategies and alternatives, engaging in individual research on related topics.

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

ARC 4500 Cooperative Training Year: 5 Level: 9

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

None

### 7. Course main objective(s)

This course aims to enhance students' research skills by applying urban principles to real-world challenges related to sacred sites. Students will develop the ability to independently seek and analyze relevant data, using both qualitative and quantitative methods to address complex urban issues. The course emphasizes academic integrity and encourages active contributions to solving urban problems. It also fosters critical thinking and problem-solving, preparing students to make meaningful contributions to the built environment through their research.

### 2. Teaching mode (Mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	3	100%
2	E-learning	0	0%
3	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>	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	0
4	Graduation project	45
5	Training	0
6	Others (specify)	--
<b>Total</b>		<b>45</b>

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

Code	Course Learning Outcomes	Aligned PLO	Teaching Strategies	Assessment Methods
<b>Knowledge and understanding</b>				
1.1	Demonstrate an understanding of research and inquiry methodologies. (K5-a)	<b>K5</b>	Self-Learning (Capstone project)	Eval. of Research
<b>Skills</b>				
2.1	Independently seek knowledge and use it appropriately. (S3-a)	<b>S3</b>	Self-Learning (Capstone project)	Eval. of Research
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2.4	Use mathematical operations and quantitative methods to process data and information. (S7-a)	<b>S7</b>	Self-Learning (Capstone project)	Eval. of Research
<b>Values, autonomy, and responsibility</b>				
3.1	Demonstrate commitment to honesty and academic integrity. (V1-c)	<b>V1</b>	Self-Learning (Capstone project)	Eval. of Research
3.2	Contribute actively to addressing challenges related to the built environment. (V2-a)	<b>V2</b>	Self-Learning (Capstone project)	Eval. of Research





## C. Course Content

No	List of Topics	Contact
1	Introduction to the course	3
2	Research title selection	3
3	Analyze relevant research papers - Part 1	3
4	Analyze relevant research papers - Part 2	3
5	Problem statement and methodology	3
6	Literature review - Part 1	3
7	Literature review - Part 2	3
8	Literature review - Part 3	3
9	Applying the methodology - part 1	3
10	Applying the methodology - part 2	3
11	Applying the methodology - part 3	3
12	The conclusion and recommendations	3
13	Research refining - Part 1	3
14	Research refining - Part 2	3
15	Research refining - Part 3	3
<b>Total</b>		<b>45</b>

## D. Students Assessment Activities

No	Assessment Activities *	Timing (week)	% of Total
1	Cont. Assess. (Eval. of Research)	1 to 15	40
2	Mid-Term Exam (Eval. of Research)	7	20
3	Final Capstone Submission	16	40

\*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	معهد خادم الحرمين الشريفين لأبحاث الحج والعمرة. الملتقيات العلمية لأبحاث الحج والعمرة والزيارة. Uqu.edu.sa. (2022). from <a href="https://uqu.edu.sa/hajj/107535">https://uqu.edu.sa/hajj/107535</a> .
Supportive References	
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
<b>Facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Equipped Classroom
<b>Technology equipment</b> (Projector, smart board, software)	Data show projector
	Internet connection
<b>Other equipment</b>	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

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



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



# 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