



جامعة أم القرى  
UMM AL-QURA UNIVERSITY

**A Comparison between**  
**ISLAMIC ARCHITECTURE**  
and  
**ARCHITECTURE & PLANNING**  
programmes



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UMM AL-QURA UNIVERSITY

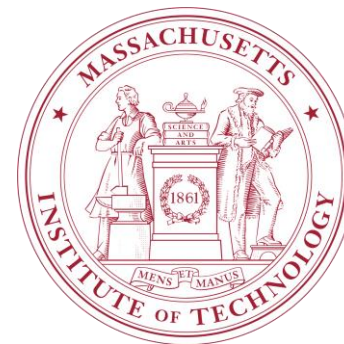
College of Engineering and Architecture  
Department of Architecture

**A Comparison between**  
**ISLAMIC ARCHITECTURE**  
and  
**ARCHITECTURE & PLANNING**  
programmes

2022-2023

# Preface

Throughout history, architecture and planning have reflected cultural and civilizational development. Today, architects, urban designers, and planners address urban issues by taking responsibility for the built environment and responding to the increased demand for natural resources. To achieve the needs of the labor market and the goals of the Kingdom's Vision 2030, including improving the urban environment in Saudi Arabian cities, accommodating more pilgrims and Umrah pilgrims, and establishing the Kingdom as the best destination for living, the Architecture and Planning Programme was established in the academic year 2022-2023. The program spans five years, with three years dedicated to general architecture and two years specialized in architecture, urban design, and urban planning. The programme focuses on producing successful graduates in architecture, urban design, and planning through a studio-based approach. This is achieved by examining both the past and future to create original work that caters to the needs of society through developing diverse local built environments while maintaining a distinct urban identity framework. The programme's main objective is to cultivate successful graduates in architecture, urban design, and planning by leveraging a studio-based approach. This is accomplished by studying both the past and future to produce innovative works that cater to the needs of society and develop diverse local built environments while maintaining a distinct architectural and urban identity.



**ETH** zürich

Berkeley  
UNIVERSITY OF CALIFORNIA

**TU Delft**

Delft University of Technology

msa Manchester School of Architecture



THE UNIVERSITY OF SYDNEY



UNSW SYDNEY

Benchmarking with fairly similar programmes at universities in the top 200 worldwide

Old Programme (Plan 37)

**Islamic Architecture Programme**  
(Semester)

New Programme (Plan 44)

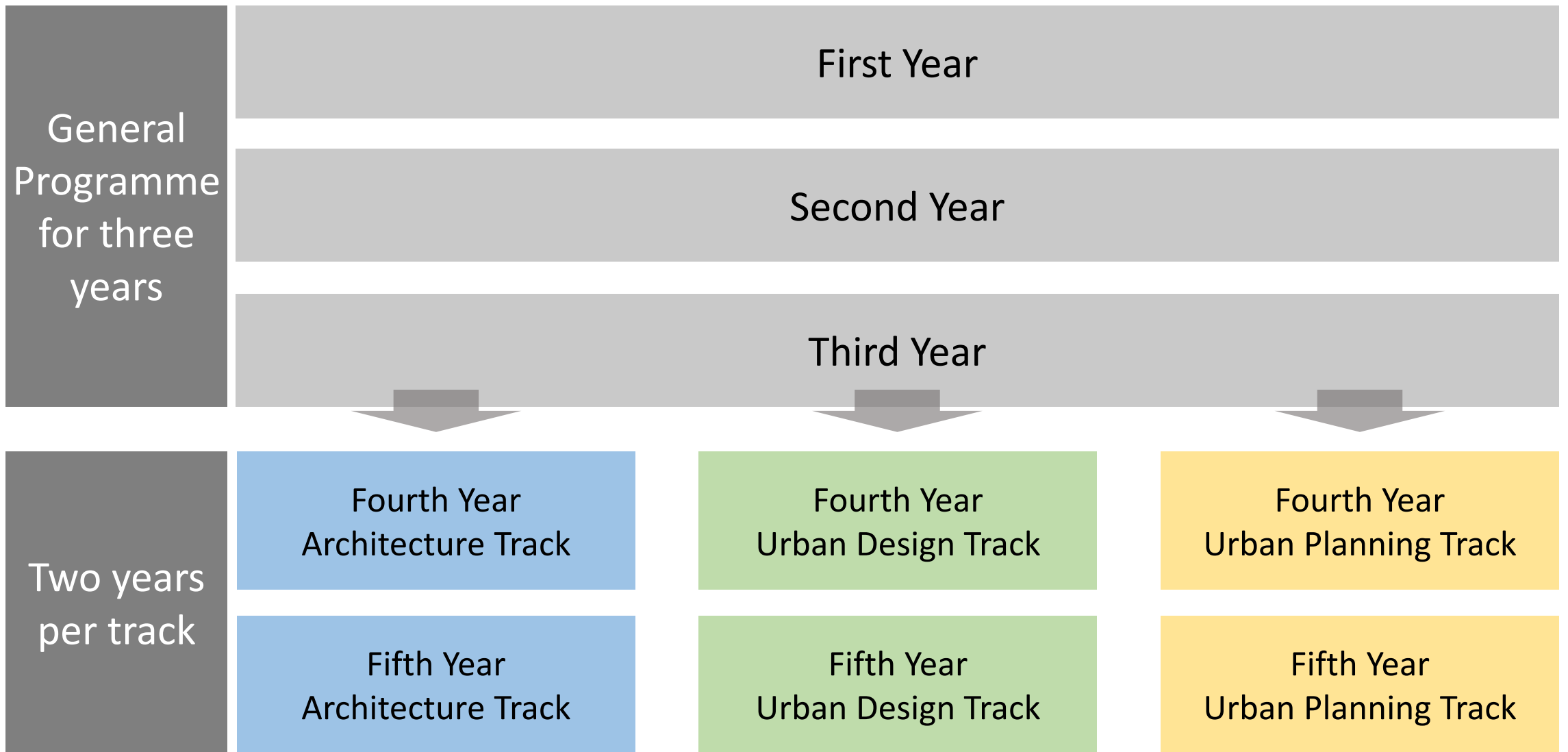
**Architecture & Planning Programme**  
(Trimester)

Architecture

Urban  
Design

Urban  
Planning

Main Concept of **Architecture & Planning Programme (Plan 44)**



Distribution of the Three Tracks

## Islamic Architecture Programme (Semester)

Knowledge	
K1-a	Demonstrate an understanding of processes & methods of design.
K1-b	Define functional requirements for different sectors of the built environment.
K1-c	Demonstrate an understanding of architectural shapes & forms, & ways of presentation.
K1-d	Demonstrate a broad range of understanding of the impact of environmental conditions on the built environment.
K1-e	Demonstrate an understanding of the history & theories of the built environment.
K1-f	Describe the heritage of the built environment.
K1-g	.Interpret the social aspects impact on the built environment
K1-h	Demonstrate an understanding of the mutual integration between human & the environment.
K1-i	Demonstrate an in-depth understanding of wide range of specialized knowledge related to current developments of the built environment.
K2-a	Differentiate between various types of building materials, building technologies & structural systems.
K2-b	.Demonstrate an understanding of various types of infrastructure systems
K2-c	Demonstrate an understanding of technical installations in buildings.
K3-a	Identify the professional ethics & responsibilities of architects.
K3-b	.Illustrate the potential roles of architects in different professional contexts
K3-c	.Identify the relevant laws, rules & legislations that regulate the built environment
K3-d	Explain the nature of construction industry.
K3-e	Illustrate fundamentals of economics of construction sector.
K3-f	Illustrate fundamentals of project management of construction sector.
K3-g	Demonstrate an understanding of use of specialized measuring, testing & modeling tools in the design process.
K4-a	.Demonstrate an understanding of mathematical concepts relevant to architecture
K4-b	Illustrate fundamentals of computer applications in simulation & presentation of design concepts.

## Architecture & Planning Programme (Trimester)

Knowledge	
K1-a	Explain processes, methods & fundamentals of designing the built environment.
K1-b	Define functional requirements & relationships for different sectors of the built environment.
K1-c	Demonstrate an understanding of the basics of architectural formation.
K1-d	Demonstrate an understanding of various ways of representing the built environment.
K1-e	Demonstrate an understanding of the history of the built environment.
K1-f	Demonstrate an understanding of theories of the built environment.
K1-g	Describe the conservation methods of the built heritage.
K1-h	Explain the impact of different aspects on the built environment.
K1-i	Demonstrate an understanding of the mutual integration between human & the environment.
K1-j	Demonstrate adequate understanding of the means to achieve an environmentally sustainable built environment.
K1-k	Demonstrate an understanding of wide range of specialized knowledge related to the built environment.
K1-l	Demonstrate an understanding of the knowledge required to use computer programs in designing the built environment.
K1-m	Illustrate fundamentals of economics of the built environment sector.
K1-n	Illustrate fundamentals of project management of built environment sector.
K1-o	Demonstrate an understanding of the fine arts as an influence on the quality of the design.
K2-a	Differentiate between various types of building materials, building technologies & structural systems.
K2-b	.Demonstrate an understanding of various types of infrastructure systems
K2-c	Demonstrate an understanding of technical installations in buildings.
K2-d	Explain the nature of construction industry.
K3-a	Identify the professional ethics & responsibilities related to the built environment.
K3-b	.Identify the relevant laws, rules & legislations that regulate the built environment
K4-a	.Demonstrate an understanding of mathematical concepts relevant to the built environment
K4-b	.Demonstrate an understanding of engineering concepts relevant to the built environment

## Program Learning Outcomes, PLOs (Knowledge)

## Islamic Architecture Programme (Semester)

Skills	
S1-a	Make design decisions considering user requirements, site analysis, & environmental impacts.
S1-b	Apply the knowledge of historical, social & cultural references in design.
S1-c	Apply the knowledge of design theories & methods.
S1-d	Apply the knowledge of bearing structure & materials selection.
S1-e	Apply the knowledge of professional & regulatory requirements.
S1-f	Apply the knowledge of construction economics.
S1-g	Apply the knowledge of construction project management.
S1-h	Employ manual skills to develop & present projects.
S1-i	Employ digital skills to analyze, develop & present projects.
S1-j	Apply various means to achieve sustainable design.
S1-k	Create innovative architectural concepts & forms.
S2-0	Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
S3-a	Interpret questionnaires & evaluate data from a variety of sources.
S3-b	Analyze results of various experiments.
S3-c	Apply scientific research for complex issues of the built environment.
S4-a	Perform building & execution drawings efficiently.
S4-b	Demonstrate mental-physical coordination in producing sketches & drawings.
S4-c	Execute physical models efficiently.
S5-a	Communicate effectively using oral & written forms.
S5-b	Effectively create various technical documentations.
S5-c	Use mathematics to process data & information in various complex contexts, related to architecture.
S5-d	Utilize computer applications effectively to produce graphics & models of design concepts.

## Architecture & Planning Programme (Trimester)

Skills	
S1-a	Make design decisions considering user requirements & various environmental impacts.
S1-b	Solve complicated problems associated with the built environment.
S1-c	Create innovative concepts & forms for the built environment.
S1-d	Apply the knowledge of theories & methods of designing the built environment.
S1-e	Apply the knowledge of bearing structure & materials selection.
S1-f	Apply the knowledge of historical, social & cultural references in the design of the built environment.
S1-g	Apply the knowledge of professional & regulatory requirements.
S1-h	Apply the knowledge of built environment economics.
S1-i	Apply the knowledge of project management.
S1-j	Effectively employ digital skills in different stages of designing the built environment.
S1-k	Apply various means to achieve sustainable built environment.
S1-l	Apply various conservation methods to preserve the built heritage.
S2-a	Analyze the Islamic values & its impact on the formation of the human & built environment at multiple scales.
S3-a	Independently seek information & use it appropriately.
S3-b	Analyze data from a variety of sources.
S3-c	Formulate results of different experiments.
S4-a	Employ manual skills to develop & present projects.
S4-b	Execute physical models efficiently.
S4-c	Perform drawings efficiently & accurately.
S5-a	Communicate effectively with others.
S5-b	Utilize computer programs effectively in communication.

Program Learning Outcomes, PLOs (Skills)



## Islamic Architecture Programme (Semester)

Values	
V1-a	Demonstrate self-discipline & punctuality.
V1-b	Demonstrate respect to different points of view.
V1-c	Demonstrate commitment to ethics; & professional & academic values.
V2-a	Actively participate in finding effective solutions to social issues related to the built environment.
V2-b	Demonstrate responsibility for self-learning & continuing personal & professional development.
V2-c	Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.
V2-d	Demonstrate persistence on achievement & distinction.
V2-e	Complete tasks under pressure & within the expected time frame.

## Architecture & Planning Programme (Trimester)

Values, autonomy & responsibility	
V1-a	Demonstrate self-discipline & punctuality.
V1-b	Demonstrate respect to different points of view.
V1-c	Demonstrate commitment to ethics; & professional & academic values.
V2-a	Actively participate in finding effective solutions to various issues related to the built environment.
V2-b	Demonstrate responsibility for self-learning & continuing personal & professional development.
V2-c	Work collaboratively & constructively, & lead diverse teams to perform a wide range of tasks with responsibility.
V2-d	Demonstrate persistence on achievement & distinction.
V2-e	Complete tasks under pressure & within the expected time frame.

Program Learning Outcomes, PLOs (Values, , Autonomy, and Responsibility)

## Islamic Architecture Programme (Semester)

**15** Weeks per Semester

**172**  
Credit Hours

**50** Architecture Courses\*

**6** Basic Science and Engineering Courses \*

**6** Urban Design & Urban Planning Courses\*

**2** Elective Courses\*

**2** Summer Training Courses (1) & (2)

\* Specialized courses other than University courses

## Architecture & Planning Programme (Trimester)

**10** Weeks per Semester

**255**  
Credit Hours

**34** General Courses (Architecture)\*

**6** Basic Science and Engineering Courses\*

**28** Architecture Track Courses\*

**28** Urban Design Track Courses\*

**28** Urban Planning Track Courses\*

**5** Elective Courses\*

**1** One-term Cooperative Training

## Architecture & Planning Programme (Trimester)

### Architecture

3<sup>rd</sup> Year

**Architectural Design  
Studio 5: Long Spans**

### Urban Design

3<sup>rd</sup> Year

**Introduction to Urban  
Planning Studio**

### Urban Planning

2<sup>nd</sup> Year

**Introduction to Urban  
Design Studio**

Reference courses based on which students are accepted in the various tracks,  
in addition to the GPA.

## Islamic Architecture Programme (Semester)

1 <sup>st</sup> Year	Architectural Design Studio (1)	Architectural Design Studio (2)
2 <sup>nd</sup> Year	Architectural Design Studio (3)	Architectural Design Studio (4)
3 <sup>rd</sup> Year	Architectural Design Studio (5)	Architectural Design Studio (6)
4 <sup>th</sup> Year	Architectural Design Studio (7)	Architectural Design Studio (8)
5 <sup>th</sup> year	Architectural Design Studio (9)	Architectural Design Studio (10)

## Architecture & Planning Program- Architecture (Trimester)

Architectural Formation Principles Studio 1	Architectural Formation Principles Studio 2	Fundamental Design Principles Studio
Architectural Design Studio 1: Small Scale Public Buildings	Architectural Design Studio 2: Medium Scale Public Buildings	Architectural Design Studio 3: Vernacular Architecture
Architectural Design Studio 4: Conventional Structure Systems	Architectural Design Studio 5: Long Spans	Architecture Track
Architectural Design Studio 6: Sustainable Buildings	Architectural Design Studio 7: Mixed-Use Buildings	Architectural Design Studio 8: Conservation of Heritage Buildings
Architectural Design Studio 9: Professional Practice	Graduation Project Studio 1: Architecture	Graduation Project Studio 2: Architecture

Architectural Design Studios Distribution (Architecture Track)

## Islamic Architecture Programme (Semester)

1 <sup>st</sup> Year	Architectural Design Studio (1)	Architectural Design Studio (2)
2 <sup>nd</sup> Year	Architectural Design Studio (3)	Architectural Design Studio (4)
3 <sup>rd</sup> Year	Architectural Design Studio (5)	Architectural Design Studio (6)
4 <sup>th</sup> Year	Architectural Design Studio (7)	Architectural Design Studio (8)
5 <sup>th</sup> year	Architectural Design Studio (9)	Architectural Design Studio (10)

## Architecture & Planning Program- Urban Design (Trimester)

Architectural Formation Principles Studio 1	Architectural Formation Principles Studio 2	Fundamental Design Principles Studio
Architectural Design Studio 1: Small Scale Public Buildings	Architectural Design Studio 2: Medium Scale Public Buildings	Architectural Design Studio 3: Vernacular Architecture
Architectural Design Studio 4: Conventional Structure Systems	Architectural Design Studio 5: Long Spans	Urban Design Track
Urban Design Studio 1: Existing Areas Development	Urban Design Studio 2: New Areas Development	Urban Design Studio 3: Sustainability
Urban Design Studio 4: Urban Heritage Conservation	Graduation Project Studio 1: Integrated Urban Design	Graduation Project Studio 2: Integrated Urban Design

Urban Design Studios Distribution (Urban Design Track)

## Islamic Architecture Programme (Semester)

1st Year	Architectural Design Studio (1)	Architectural Design Studio (2)
2nd Year	Architectural Design Studio (3)	Architectural Design Studio (4)
3rd Year	Architectural Design Studio (5)	Architectural Design Studio (6)
4th Year	Architectural Design Studio (7)	Architectural Design Studio (8)
5th Year	Architectural Design Studio (9)	Architectural Design Studio (10)

## Architecture & Planning Program- Urban Planning (Trimester)

Architectural Formation Principles Studio 1	Architectural Formation Principles Studio 2	Fundamental Design Principles Studio
Architectural Design Studio 1: Small Scale Public Buildings	Architectural Design Studio 2: Medium Scale Public Buildings	Architectural Design Studio 3: Vernacular Architecture
Architectural Design Studio 4: Conventional Structure Systems	Architectural Design Studio 5: Long Spans	Urban Planning Track
Urban Planning Studio 1: Neighbourhood	Urban Planning Studio 2: Residential District	Urban Planning Studio 3: New City
Urban Planning Studio 4: Regional Planning	Graduation Project Studio 1: Urban Planning	Graduation Project Studio 2: Urban Planning

Urban Planning Studios Distribution (Urban Planning Track)

**Islamic Architecture Programme**  
(Semester)



**Architecture & Planning Program- Architecture**  
(Trimester)

2 <sup>nd</sup> Year	Building Construction (1)	Building Construction (2)
3 <sup>rd</sup> Year	Building Construction (3)	Building Construction (4)
4 <sup>th</sup> Year	Execution Design Studio (1)	Execution Design Studio (2)

Building Construction Studio 1: Site Preparation	Building Construction Studio 2: Components of Building Structure	Building Construction Studio 3: Components of Building Structure
Building Construction Studio 4: Technical Drawings	Building Construction Studio 5: Finishes	Architecture Track
Execution Design Studio of Residential Buildings	Execution Design Studio of Public Buildings	Execution Design Studio of Blow-Ups Detailing

**Islamic Architecture Programme**  
(Semester)



**Architecture & Planning Program- Urban Design**  
(Trimester)

2<sup>nd</sup> Year

**Building Construction (1)**

**Building Construction (2)**

**Building Construction Studio 1: Site Preparation**

**Building Construction Studio 2: Components of Building Structure**

**Building Construction Studio 3: Components of Building Structure**

3<sup>rd</sup> Year

**Building Construction (3)**

**Building Construction (4)**

**Building Construction Studio 4: Technical Drawings**

**Building Construction Studio 5: Finishes**

Urban Design Track



4<sup>th</sup> Year

**Execution Design Studio (1)**

**Execution Design Studio (2)**

**Urban Design Details Studio**



**Islamic Architecture Programme**  
(Semester)



**Architecture & Planning Program- Architecture**  
(Trimester)

2<sup>nd</sup> Year

Computer Application (1)

Computer Application (2)

Vector-based Drawing

3D Modeling

Creative Generative-Design

3<sup>rd</sup> Year

Advanced Computer Application

Environmental Simulation

Digital Fabrication & Prototyping

Architecture Track



4<sup>th</sup> Year

Computer-Based Architectural Project Management 1

Computer-Based Architectural Project Management 2

5<sup>th</sup> Year

**Islamic Architecture Programme**  
(Semester)



**Architecture & Planning Program- Urban Design**  
(Trimester)

2 <sup>nd</sup> Year	Computer Application (1)	Computer Application (2)
3 <sup>rd</sup> Year		
4 <sup>th</sup> Year	Advanced Computer Application	

Vector-based Drawing	3D Modeling	Creative Generative-Design
		Urban Design Track
Urban Information Systems	Urban Virtual & Augmented Reality	

**Islamic Architecture Programme**  
(Semester)



**Architecture & Planning Program- Urban Planning**  
(Trimester)

2<sup>nd</sup> Year

Computer Application (1)

Computer Application (2)

Vector-based Drawing

3D Modeling

Creative Generative-Design

3<sup>rd</sup> Year

Advanced Computer Application

Urban Information Systems

Advanced Urban Information Systems

Urban Planning Track  
▼

5<sup>th</sup> Year

Computer Applied Statistics

## Islamic Architecture Programme (Semester)

1 <sup>st</sup> Year	Architecture of Ancient Civilizations	Design Process & Methods
2 <sup>nd</sup> Year	History & Theories of Architecture (1)	History & Theories of Architecture (2)
3 <sup>rd</sup> Year	History & Theories of Architecture (3)	History & Theories of Architecture (4)
	History & Theories of Urban Planning	Urban Planning
4 <sup>th</sup> Year		
5 <sup>th</sup> year		

## Architecture & Planning Program- Architecture (Trimester)

Ancient civilizations & Medieval Architecture	Design Process & Methods	Buildings Design Standards 1
Architecture of Islamic Civilization	Renaissance & Pre-modern Architecture	Principles of Urban Design
Principles of Urban Planning	Sustainable Architecture	Architecture Track ▼
Twentieth century Arch. Buildings Design Standards 2 Interior Design	Creativity in Architecture Conservation of Architectural Heritage	
Smart Buildings Biomimetic Arch. Universal Design	Human & Environment Resilient design	Architecture of the Future

History & Theories Courses (Architecture Track)

## Islamic Architecture Programme (Semester)

1 <sup>st</sup> Year	Architecture of Ancient Civilizations	Design Process & Methods
2 <sup>nd</sup> Year	History & Theories of Architecture (1)	History & Theories of Architecture (2)
3 <sup>rd</sup> Year	History & Theories of Architecture (3)	History & Theories of Architecture (4)
	History & Theories of Urban Planning	Urban Planning
4 <sup>th</sup> Year		
5 <sup>th</sup> year		

## Architecture & Planning Program- Urban Design (Trimester)

Ancient civilizations & Medieval Architecture	Design Process & Methods	Buildings Design Standards 1
Architecture of Islamic Civilization	Renaissance & Pre-modern Architecture	Principles of Urban Design
Principles of Urban Planning	Sustainable Architecture	Urban Design Track ▼
Urban Morphology	Advanced studies in Landscape Architecture	
Housing	Introduction to Sustainable Urban Design	Streets Planning & Design
Cities Centers	Crowd Management	Humanizing the Cities
Urban Sociology	Smart Urban Spaces	Architecture of the Future
Principles of Urban Mobility	Urban Wayfinding	

History & Theories Courses (Urban Design Track)

## Islamic Architecture Programme (Semester)

## Architecture & Planning Program- Urban Planning (Trimester)

1 <sup>st</sup> Year	Architecture of Ancient Civilizations	Design Process & Methods	Ancient civilizations & Medieval Architecture	Design Process & Methods	Buildings Design Standards 1
2 <sup>nd</sup> Year	History & Theories of Architecture (1)	History & Theories of Architecture (2)	Architecture of Islamic Civilization	Renaissance & Pre-modern Architecture	Principles of Urban Design
3 <sup>rd</sup> Year	History & Theories of Architecture (3)	History & Theories of Architecture (4)	Principles of Urban Planning	Sustainable Architecture	Urban Planning Track
	History & Theories of Urban Planning	Urban Planning			
4 <sup>th</sup> Year			Urban Planning Theories	Urban Transportation Planning	Regional Planning
			Advanced studies in Landscape Architecture	Urban Service Facilities	Cities & Climate Change
5 <sup>th</sup> year			Urban Governance	Urban Economics	Multicriteria Assessment of Urban Development Projects
			Sustainable Cities	Urban Sociology & Population	
			Urban Infrastructure	Smart Cities	

History & Theories Courses (Urban Planning Track)

**Islamic Architecture Programme**  
(Semester)

**Architecture & Planning Program- Architecture**  
(Trimester)

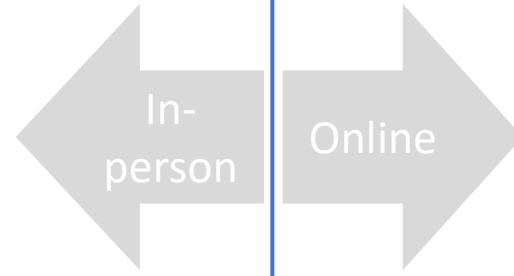
1st Year

2nd Year

3rd Year

4th Year

5th year



- One of:
- Digital Arch. Photography
  - Arabic Calligraphy & Ornamentation
  - Graphic Design Principles

- One of:
- Vocabulary of Islamic Arch.
  - Contemporary Mosques Arch.
  - Architecture of the Two Holy Mosques

- One of:
- Introduction to Urban Spaces Analysis
  - Sustainable Landscape Architecture
  - Urban topics in Hajj & Umrah

**Architecture Track**

- One of:
- Sustainability & Green Arch.
  - Urban Heritage in Saudi Arab
  - High Tech in Building Construction
  - Mega Structures

- One of:
- Architectural Criticism
  - Vernacular Arch.
  - Architecture of the Two Holy Mosques

- One of:
- Photorealistic Rendering Techniques
  - Computer Modeling in Building Construction
  - Computerized Applications of Crowd Studies in Architecture

- One of:
- Human Factors in Architecture
  - Architectural Criticism
  - Selected Topics in Architecture

**Elective Courses (Architecture Track)**

# Islamic Architecture Programme (Semester)

# Architecture & Planning Program- Urban Design (Trimester)

1st Year

2nd Year

3rd Year

4th Year

5th year

One of:

Sustainability & Green Arch.
Urban Heritage in Saudi Arab
High Tech in Building Construction
Mega Structures

One of:

Architectural Criticism
Vernacular Arch.
Architecture of the Two Holy Mosques

One of:

Introduction to Urban Spaces Analysis
Sustainable Landscape Architecture
Urban topics in Hajj & Umrah

One of:

Digital Arch. Photography
Arabic Calligraphy & Ornamentation
Graphic Design Principles

One of:

Vocabulary of Islamic Arch.
Contemporary Mosques Arch.
Architecture of the Two Holy Mosques

## Urban Design Track

One of:

Temporary Urbanism
Project Management for Planners
Terminals Planning & Design

One of:

Fundamentals of Real Estate Development
Ecotourism Planning
Selected Topics in Urban Design

Elective Courses (Urban Design Track)



# Islamic Architecture Programme (Semester)

# Architecture & Planning Program- Urban Planning (Trimester)

1st Year

2nd Year

3rd Year

4th Year

5th year

One of:

Sustainability & Green Arch.
Urban Heritage in Saudi Arab
High Tech in Building Construction
Mega Structures

One of:

Architectural Criticism
Vernacular Arch.
Architecture of the Two Holy Mosques

One of:

Introduction to Urban Spaces Analysis
Sustainable Landscape Architecture
Urban topics in Hajj & Umrah

One of:

Digital Arch. Photography
Arabic Calligraphy & Ornamentation
Graphic Design Principles

One of:

Vocabulary of Islamic Arch.
Contemporary Mosques Arch.
Architecture of the Two Holy Mosques

## Urban Planning Track

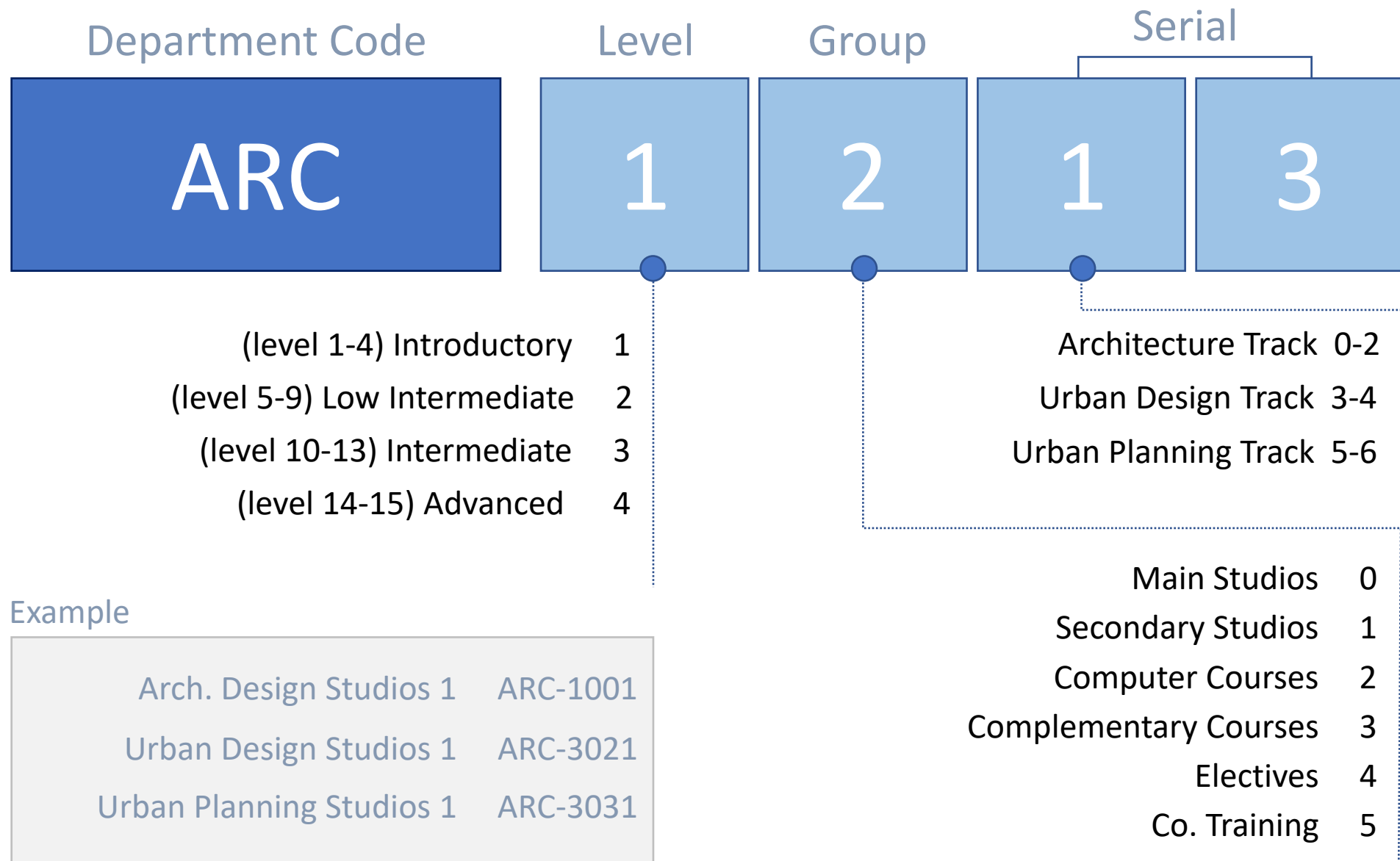
One of:

Urban Indicators
Technology & Desert Dev.
Urban Dev. in Saudi Arabia

One of:

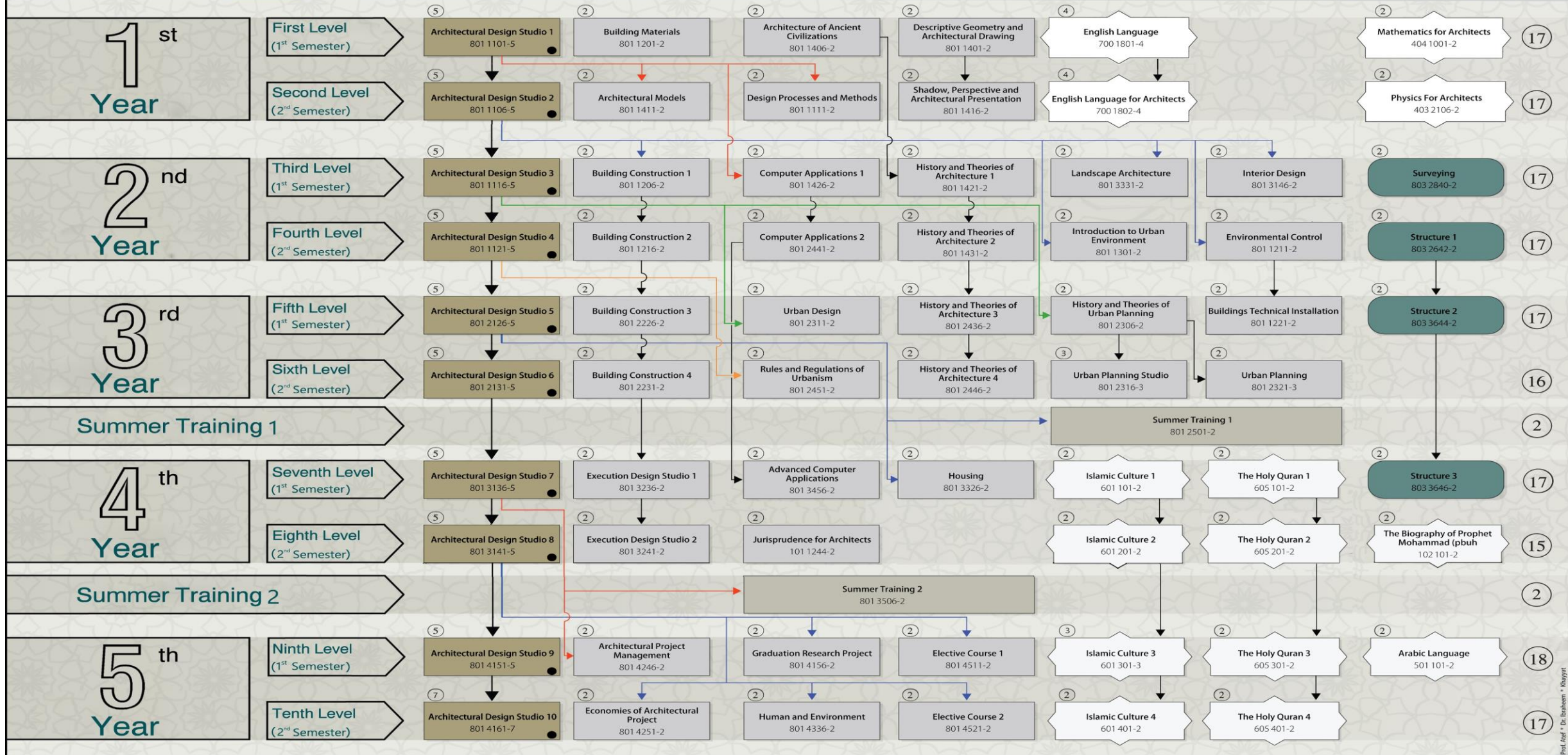
Selected Topics in Urban Planning
Advanced Topics in Urban Transportation
Planning Decision-Making Systems

# Elective Courses (Urban Planning Track)



## Coding System

# **Curriculum of Islamic Architecture Programme**



# Curriculum of Architecture & Planning Programme

1 First Year	First Trimester	5 Architectural Formation Principles Studio 1 ARC 1001	3 Architectural Drawings and Presentation ARC 1302	2 Ancient civilizations and Medieval Architecture ARC 1309	2 Mathematics for Architects MTH 1601	4 English Language 1 ELCN1301	2 Islamic Culture 1 ICC 1201	18	
	Second Trimester	5 Architectural Formation Principles Studio 2 ARC 1002	3 Architectural Models ARC 1306	2 Design Process and Methods ARC 1308	2 Shade, Shadow and Perspective ARC 1303	4 English Language 2 ELCN1302	2 Digital Technology DS1101	18	
	Third Trimester	5 Fundamental Design Principles Studio ARC 1003	3 Buildings Design Standards 1 ARC 1314	2 Elective Course 1 ARC 140#	2 Physics for Architects PHY 1115	4 English Language 3 ELCN1303	2 The Holy Quran 1 QR 1101	18	
2 Second Year	First Trimester	5 Architectural Design Studio 1: Small Scale Public Buildings ARC 1004	3 Building Construction Studio 1: Site Preparation ARC 1101	2 Vector-based Drawing ARC 1203	2 Introduction to Landscape Architecture ARC 1315	2 Architecture of Islamic Civilization ARC 1310	2 Surveying CE 1632	2 Islamic Culture 2 ICC 2202	18
	Second Trimester	5 Architectural Design Studio 2: Medium Scale Public Buildings ARC 1005	3 Building Construction Studio 2: Components of Building Structure ARC 1102	2 3D Modeling ARC 1205	2 Local Architectural Heritage ARC 1304	2 Renaissance and Pre-modern Architecture ARC 1311	2 Environmental control Systems ARC 1317	2 Structure 1 CE 1450	18
	Third Trimester	5 Architectural Design Studio 3: Vernacular Architecture ARC 1006	3 Building Construction Studio 3: Components of Building Structure ARC 1103	2 Creative Generative-Design ARC 1201	2 Buildings' Technical Installations ARC 1307	2 Principles of Urban Design ARC 1313	2 Elective Course 2 ARC 141#	2 The Holy Quran 2 QR 2102	18
3 Third Year	First Trimester	5 Architectural Design Studio 4: Conventional Structure Systems ARC 1007	3 Building Construction Studio 4: Technical Drawings ARC 1104	2 Principles of Urban Planning ARC 1312	2 Structure Systems in Architecture ARC 1316	4 Introduction to Urban Design Studio ARC 1109	2 Structure 2 CE 2452	18	
	Second Trimester	5 Architectural Design Studio 5: Long Spans ARC 1008	3 Building Construction Studio 5: Finishes ARC 1105	2 Sustainable Architecture ARC 1305	2 Elective Course 3 ARC 142#	4 Introduction to Urban Planning Studio ARC 1110	2 Structure 3 CE 2454	18	
	Third Trimester	8 Cooperative Training ARC 1500						2 Structure 2 CE 2452	8
4 Fourth Year	First Trimester	5 Architectural Design Studio 6: Sustainable Buildings ARC 2009	3 Execution Design Studio of Residential Buildings ARC 2107	2 Environmental Simulation ARC 2204	2 Twentieth century Architecture ARC 2327	2 Buildings Design Standards 2 ARC 2329	2 Interior Design ARC 2325	2 The Holy Quran 3 QR 3103	18
	Second Trimester	5 Architectural Design Studio 7: Mixed-Use Buildings ARC 2010	3 Execution Design Studio of Public Buildings ARC 2108	2 Digital Fabrication and Prototyping ARC 2206	2 Creativity in Architecture ARC 2318	2 Conservation of Architectural Heritage ARC 2320	2 Islamic Culture 3 ICC 3203	2 Arabic Writing and Editing ARS 1500	18
	Third Trimester	5 Architectural Design Studio 8: Conservation of Heritage Buildings ARC 2011	3 Execution Design Studio of Blow-Ups Detailing ARC 2106	2 Professional Practice for Architects ARC 2322	2 Architecture of Mega Structures ARC 2323	2 Applications of the Saudi Building Code in Architecture ARC 2326	2 Elective Course 1: Architecture ARC 240#	2 Elective 1 (General Course)	18
5 Fifth Year	First Trimester	5 Architectural Design Studio 9: Professional Practice ARC 2012	2 Graduation Project Research: Architecture ARC 2324	2 Computer-Based Architectural Project Management 1 ARC 2207	2 Smart Buildings ARC 2321	2 Universal Design ARC 2319	2 Biomimetic Architecture ARC 2328	2 Islamic Culture 4 ICC 4204	17
	Second Trimester	7 Graduation Project Studio 1: Architecture ARC 3013	2 Computer-Based Architectural Project Management 2 ARC 3208	2 Human and Environment ARC 3321	2 Resilient design ARC 3322	2 The Holy Quran 4 QR 4104	2 Elective 2 (General Course)	17	
	Third Trimester	7 Graduation Project Studio 2: Architecture ARC 3014	2 Economics of Architectural Projects ARC 3320	2 Architecture of the Future ARC 3323	2 Elective Course 2: Architecture ARC 340#	2 Elective 3 (General Course)	15		

Architecture Track



Specialized Elective Courses



- 1 • Digital Architectural Photography
- 2 • Vocabulary of Islamic Architecture
- 3 • Introduction to Urban Spaces Analysis
- 1 • Photorealistic Rendering Techniques
- 2 • Human Factors in Architecture
- Arabic Calligraphy and Ornamentation
- Contemporary Mosques Architecture
- Sustainable Landscape Architecture
- Computer Modeling in Building Construction
- Architectural Criticism
- Graphic Design Principles
- Architecture of the Two Holy Mosques
- Urban topics in Hajj and Umrah
- Computerized Applications of Crowd Studies in Architecture
- Selected Topics in Architecture

University Elective Courses



- Specialized technology
- Health and Nutrition
- Entrepreneurship
- Work environment
- Hospitality
- Research and innovation

Credit Hours 255





1 First Year	First Trimester	5 Architectural Formation Principles Studio 1 ARC 1001	3 Architectural Drawings and Presentation ARC 1302	2 Ancient civilizations and Medieval Architecture ARC 1309	2 Mathematics for Architects MTH 1601	4 English Language 1 ELCN1301	2 Islamic Culture 1 ICC 1201	18	
	Second Trimester	5 Architectural Formation Principles Studio 2 ARC 1002	3 Architectural Models ARC 1306	2 Design Process and Methods ARC 1308	2 Shade, Shadow and Perspective ARC 1303	4 English Language 2 ELCN1302	2 Digital Technology DS1101	18	
	Third Trimester	5 Fundamental Design Principles Studio ARC 1003	3 Buildings Design Standards 1 ARC 1314	2 Elective Course 1 ARC 140#	2 Physics for Architects PHY 1115	4 English Language 3 ELCN1303	2 The Holy Quran 1 QR 1101	18	
2 Second Year	First Trimester	5 Architectural Design Studio 1: Small Scale Public Buildings ARC 1004	3 Building Construction Studio 1: Site Preparation ARC 1101	2 Vector-based Drawing ARC 1203	2 Introduction to Landscape Architecture ARC 1315	2 Architecture of Islamic Civilization ARC 1310	2 Surveying CE 1632	2 Islamic Culture 2 ICC 2202	18
	Second Trimester	5 Architectural Design Studio 2: Medium Scale Public Buildings ARC 1005	3 Building Construction Studio 2: Components of Building Structure ARC 1102	2 3D Modeling ARC 1205	2 Local Architectural Heritage ARC 1304	2 Renaissance and Pre-modern Architecture ARC 1311	2 Environmental control Systems ARC 1317	2 Structure 1 CE 1450	18
	Third Trimester	5 Architectural Design Studio 3: Vernacular Architecture ARC 1006	3 Building Construction Studio 3: Components of Building Structure ARC 1103	2 Creative Generative-Design ARC 1201	2 Buildings' Technical Installations ARC 1307	2 Principles of Urban Design ARC 1313	2 Elective Course 2 ARC 141#	2 The Holy Quran 2 QR 2102	18
3 Third Year	First Trimester	5 Architectural Design Studio 4: Conventional Structure Systems ARC 1007	3 Building Construction Studio 4: Technical Drawings ARC 1104	2 Principles of Urban Planning ARC 1312	2 Structure Systems in Architecture ARC 1316	4 Introduction to Urban Design Studio ARC 1109	2 Structure 2 CE 2452	18	
	Second Trimester	5 Architectural Design Studio 5: Long Spans ARC 1008	3 Building Construction Studio 5: Finishes ARC 1105	2 Sustainable Architecture ARC 1305	2 Elective Course 3 ARC 142#	4 Introduction to Urban Planning Studio ARC 1110	2 Structure 3 CE 2454	18	
	Third Trimester	8	Cooperative Training ARC 1500						8
4 Fourth Year	First Trimester	5 Urban Design Studio 1: Existing Areas Development ARC 3031	3 Urban Spatial Analysis Studio ARC 3131	2 Urban Information Systems ARC 3231	2 Urban Environmental Control ARC 3331	2 Urban Morphology ARC 3332	2 Housing ARC 3333	2 The Holy Quran 3 QR 3103	18
	Second Trimester	5 Urban Design Studio 2: New Areas Development ARC 3032	3 Urban Design Details Studio ARC 3132	2 Urban Virtual and Augmented Reality ARC 3232	2 Advanced studies in Landscape Architecture ARC 3334	2 Introduction to Sustainable Urban Design ARC 3335	2 Islamic Culture 3 ICC 3203	2 Arabic Writing and Editing ARS 1500	18
	Third Trimester	5 Urban Design Studio 3: Sustainability ARC 3033	3 Landscape Architecture Studio ARC 3133	2 Conservation of Heritage Sites ARC 3336	2 Streets Planning and Design ARC 3337	2 Humanizing the Cities ARC 3338	2 Elective Course 1: Urban Design ARC 343#	2 Elective 1 (General Course)	18
5 Fifth Year	First Trimester	5 Urban Design Studio 4: Urban Heritage Conservation ARC 3034	2 Graduation Project Research: Urban Design ARC 3339	2 Cities Centers ARC 3340	2 Urban Sociology ARC 3341	2 Principles of Urban Mobility ARC 3342	2 Public Transportation Planning and Management CE 3513	2 Islamic Culture 4 ICC 4204	17
	Second Trimester	7 Graduation Project Studio 1: Integrated Urban Design ARC 4035	2 Crowd Management ARC 3344	2 Smart Urban Spaces ARC 3345	2 Urban Wayfinding ARC 3346	2 The Holy Quran 4 QR 4104	2 Elective 2 (General Course)		17
	Third Trimester	7 Graduation Project Studio 2: Integrated Urban Design ARC 4036	2 Professional Practice of Urban Design ARC 4347	2 Future Urbanism ARC 4348	2 Elective Course 2: Urban Design ARC 444#	2 Elective 3 (General Course)			15

مركز مسار التصميم الحضري



<b>Specialized Elective Courses</b> 	<ul style="list-style-type: none"> <li>1 • Digital Architectural Photography</li> <li>2 • Vocabulary of Islamic Architecture</li> <li>3 • Introduction to Urban Spaces Analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Arabic Calligraphy and Ornamentation</li> <li>• Contemporary Mosques Architecture</li> <li>• Sustainable Landscape Architecture</li> </ul>	<ul style="list-style-type: none"> <li>• Graphic Design Principles</li> <li>• Architecture of the Two Holy Mosques</li> <li>• Urban topics in Hajj and Umrah</li> </ul>	<b>University Elective Courses</b> 	<ul style="list-style-type: none"> <li>• Specialized technology</li> <li>• Health and Nutrition</li> <li>• Entrepreneurship</li> </ul>	<ul style="list-style-type: none"> <li>• Work environment</li> <li>• Hospitality</li> <li>• Research and innovation</li> </ul>	<b>Credit Hours 255</b> 
	<ul style="list-style-type: none"> <li>1 • Temporary Urbanism</li> <li>2 • Fundamentals of Real Estate Development</li> </ul>	<ul style="list-style-type: none"> <li>• Project Management for Planners</li> <li>• Ecotourism Planning</li> </ul>	<ul style="list-style-type: none"> <li>• Terminals Planning and Design</li> <li>• Selected Topics in Urban Design</li> </ul>	<ul style="list-style-type: none"> <li>• Elective 1 (General Course)</li> <li>• Elective 2 (General Course)</li> <li>• Elective 3 (General Course)</li> </ul>			

1 First Year	First Trimester	4 Architectural Formation Principles Studio 1 ARC 1001	3 Architectural Drawings and Presentation ARC 1302	2 Ancient civilizations and Medieval Architecture ARC 1309	2 Mathematics for Architects MTH 1601	4 English Language 1 ELCN1301	2 Islamic Culture 1 ICC 1201	17	
	Second Trimester	5 Architectural Formation Principles Studio 2 ARC 1002	3 Architectural Models ARC 1306	2 Design Process and Methods ARC 1308	2 Shade, Shadow and Perspective ARC 1303	4 English Language 2 ELCN1302	2 Digital Technology DS1101	18	
	Third Trimester	5 Fundamental Design Principles Studio ARC 1003	3 Buildings Design Standards 1 ARC 1314	2 Elective Course 1 ARC 140#	2 Physics for Architects PHY 1115	4 English Language 3 ELCN1303	2 The Holy Quran 1 QR 1101	18	
2 Second Year	First Trimester	5 Architectural Design Studio 1: Small Scale Public Buildings ARC 1004	3 Building Construction Studio 1: Site Preparation ARC 1101	2 Vector-based Drawing ARC 1203	2 Introduction to Landscape Architecture ARC 1315	2 Architecture of Islamic Civilization ARC 1310	2 Surveying CE 1632	2 Islamic Culture 2 ICC 2202	18
	Second Trimester	5 Architectural Design Studio 2: Medium Scale Public Buildings ARC 1005	3 Building Construction Studio 2: Components of Building Structure ARC 1102	2 3D Modeling ARC 1205	2 Local Architectural Heritage ARC 1304	2 Renaissance and Pre-modern Architecture ARC 1311	2 Environmental control Systems ARC 1317	2 Structure 1 CE 1450	18
	Third Trimester	5 Architectural Design Studio 3: Vernacular Architecture ARC 1006	3 Building Construction Studio 3: Components of Building Structure ARC 1103	2 Creative Generative-Design ARC 1201	2 Buildings' Technical Installations ARC 1307	2 Principles of Urban Design ARC 1313	2 Elective Course 2 ARC 141#	2 The Holy Quran 2 QR 2102	18
3 Third Year	First Trimester	5 Architectural Design Studio 4: Conventional Structure Systems ARC 1007	3 Building Construction Studio 4: Technical Drawings ARC 1104	2 Principles of Urban Planning ARC 1312	2 Structure Systems in Architecture ARC 1316	4 Introduction to Urban Design Studio ARC 1109	2 Structure 2 CE 2452	18	
	Second Trimester	5 Architectural Design Studio 5: Long Spans ARC 1008	3 Building Construction Studio 5: Finishes ARC 1105	2 Sustainable Architecture ARC 1305	2 Elective Course 3 ARC 142#	4 Introduction to Urban Planning Studio ARC 1110	2 Structure 3 CE 2454	18	
	Third Trimester	8 Cooperative Training ARC 1500					مقررات التخطيط العمراني		8
4 Fourth Year	First Trimester	5 Urban Planning Studio 1: Neighborhood ARC 3051	3 Urban Spatial Analysis Studio ARC 3151	2 Urban Information Systems ARC 3251	2 Urban Planning Theories ARC 3351	2 Advanced studies in Landscape Architecture ARC 3352	2 Housing ARC 3353	2 The Holy Quran 3 QR 3103	18
	Second Trimester	5 Urban Planning Studio2: Residential District ARC 3052	3 Landscape Architecture Studio ARC 3152	2 Advanced Urban Information Systems ARC 3252	2 Urban Transportation Planning ARC 3354	2 Urban Service Facilities ARC 3355	2 Islamic Culture 3 ICC 3203	2 Arabic Writing and Editing ARS 1500	18
	Third Trimester	5 Urban Planning Studio 3: New City ARC 3053	3 Detailed Urban Planning Studio ARC 3153	2 Computer Applied Statistics ARC 3253	2 Regional Planning ARC 3356	2 Cities and Climate Change ARC 3357	2 Elective Course 1: Urban Planning ARC 345#	2 Elective 1 (General Course)	18
5 Fifth Year	First Trimester	5 Urban Planning Studio 4: Regional Planning ARC 3054	2 Graduation Project Research: Urban Planning ARC 3358	2 Urban Governance ARC 3359	2 Sustainable Cities ARC 3360	2 Urban Infrastructure ARC 3361	2 Public Transportation Planning and Management CE 3513	2 Islamic Culture 4 ICC 4204	17
	Second Trimester	7 Graduation Project Studio 1: Urban Planning ARC 4055	2 Urban Economics ARC 4363	2 Urban Sociology and Population ARC 4364	2 Smart Cities ARC 4365	2 The Holy Quran 4 QR 4104	2 Elective 2 (General Course)	17	
	Third Trimester	7 Graduation Project Studio 2: Urban Planning ARC 4056	2 Multicriteria Assessment of Urban Development Projects ARC 4366	2 Professional Practice of Planning ARC 4367	2 Elective Course 2: Urban Planning ARC 446#	2 Elective 3 (General Course)	15		



### Specialized Elective Courses



- 1 • Digital Architectural Photography
- 2 • Vocabulary of Islamic Architecture
- 3 • Introduction to Urban Spaces Analysis
- 1 • Urban Indicators
- 2 • Selected Topics in Urban Planning
- Arabic Calligraphy and Ornamentation
- Contemporary Mosques Architecture
- Sustainable Landscape Architecture
- Technology and Desert Development
- Advanced Topics in Urban Transportation

### University Elective Courses



- Graphic Design Principles
- Architecture of the Two Holy Mosques
- Urban topics in Hajj and Umrah
- Urban Development in Saudi Arabia
- Planning Decision-Making Systems
- Specialized technology
- Health and Nutrition
- Entrepreneurship
- Work environment
- Hospitality
- Research and innovation





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