



جامعة أم القرى  
UMM AL-QURA UNIVERSITY

College of Engineering and Architecture  
Department of Architecture

# ARCHITECTURE AND PLANNING program

2025



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# Preface

During its twelfth session on November 13, 1982 (27/11/1402 AH), the University Council approved the establishment of an engineering department within the College of Applied and Engineering Sciences. A needs assessment highlighted a significant gap: the absence of a dedicated specialization in Islamic Architecture within Saudi universities and other institutions globally. This was despite a clear and pressing need across the Islamic world for such a discipline to revitalize our Islamic heritage within urban environments. Consequently, the concept of Islamic Architecture gained traction, leading to the design of a unique academic program—one without parallel elsewhere. Following approval by the University Council in its fifth session on March 19, 1984 (14/3/1404 AH), the university launched the Islamic Architecture program, admitting its first cohort of students at the beginning of the first semester of the 1983/1984 academic year (1403/1404 AH). Subsequent efforts focused on developing engineering programs in Civil Engineering, Electrical and Computer Engineering, and Mechanical Engineering. These programs received approval from the University Council during its fourteenth session on August 29, 1984 (26/8/1404 AH), and the corresponding departments welcomed their initial student groups in the first semester of the 1985/1986 academic year (1405/1406 AH). As part of the continuous advancement of these programs, the University Council, in its thirteenth session held on August 20, 1984 (15/8/1404 AH), recommended the establishment of an independent College of Engineering and Islamic Architecture. This vision was realized in 1989 (1409 AH) with the founding of the college, which initially encompassed four departments.

# Architecture & Planning

Throughout history, architecture and planning have mirrored the cultural and civilizational progress of societies. Today, architects, urban designers, and planners are at the forefront of addressing urban challenges by taking responsibility for the built environment and responding to the growing demand for natural resources.

The Architecture and Planning Program was established in alignment with the goals of Saudi Arabia's Vision 2030—including enhancing the urban environment, accommodating increased numbers of pilgrims and Umrah visitors, and positioning the Kingdom as a premier destination for living. This five-year program includes three years of foundational study in general architecture, followed by two years of specialization in architecture, urban design, and urban planning.

The program is rooted in a studio-based approach, aiming to produce skilled and forward-thinking graduates. Students are encouraged to create innovative, original designs that respond to societal needs by studying historical contexts and future trends. The curriculum emphasizes the development of diverse, locally relevant built environments while preserving and enhancing a distinct architectural and urban identity.

# VISION

Excellence in education and scientific research to creatively shape the future of architecture and urbanism.

# MISSION

Preparing distinguished graduates for the labour market and promoting research and innovations in architecture and urbanism to contribute to the advancement of the knowledge economy and community service, guided by our cultural identity.

# GOALS & OBJECTIVES



## Goal 1: Academic Excellence

**Objective 1:** Strengthening partnerships with local, regional, and international educational institutions and accreditation bodies.

**Objective 2:** Continuously developing the study plans.

**Objective 3:** Evaluating and developing the quality of the educational process.



## Goal 2: Resources and governance

**Objective 1:** Developing the department's spaces.

**Objective 2:** Developing the department staff.



## Goal 3: Research and Innovation

**Objective 1:** Encouraging the formation of research groups.

**Objective 2:** Activating scientific seminars.



## Goal 4: Community Engagement and Social Responsibility

**Objective 1:** Engaging with the local community and contributing to its development through architectural and urban projects.

**Objective 2:** Promoting voluntary contribution.

# Program Learning Outcomes

**Knowledge:** At the end of the program, student should be able to

- K1** Demonstrate a comprehensive understanding of built environment design and its latest developments.
- K2** Demonstrate an in-depth understanding of built environment technologies.
- K3** Demonstrate an understanding of the profession's ethics, responsibilities, and regulations.
- K4** Demonstrate an understanding of relevant mathematical concepts and scientific theories.
- K5** Demonstrate an understanding of research and inquiry methodologies.

**Skills:** At the end of the program, student should be able to

- S1** Apply diverse knowledge to creatively address complex built environment problems.
- S2** Analyze the Islamic values that shape human and built environments.
- S3** Use scientific research to address complex built environment issues.
- S4** Demonstrate proficiency in creating drawings and craftworks.
- S5** Employ a variety of communication methods to effectively transfer knowledge and skills.
- S6** Effectively use digital skills throughout the design process of the built environment.
- S7** Use mathematical operations and quantitative methods to process data and information.
- S8** Carry out complex practical tasks and procedures related to the professional practice.

**Values, Autonomy and Responsibility:** At the end of the program, student should be able to

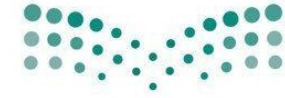
- V1** Demonstrate commitment to ethics, and professional and academic values.
- V2** Demonstrate commitment to self-development.
- V3** Demonstrate commitment to society.



Consistency of  
**Architecture and Planning**  
Program

The Program shows high consistency with:

## Saudi Standard Classification of Educational Levels and Specializations



وزارة التعليم  
Ministry of Education

Broad field: **Engineering, Manufacturing And Construction (07)**

Narrow field: **Architecture And Construction (073)**

Detailed  
Field

**Architecture And Town Planning (0731)**

Specialization  
Name

**Architecture (073104)**

Definition

This specialization aims to provide the student with the knowledge and skills to design buildings and facilities of all kinds. This specialization addresses preparing designs, drawings, architectural plans, technical specifications for building materials and bill of quantities for architectural business items bearing in mind climatic, environmental, customs and traditional factors of local community, functional and aesthetic aspects of buildings and installations.

## Other Specializations Included In The Definition

- Architecture And Planning
- Architecture And Construction Sciences
- Urban Design
- Architecture Design
- Sites Engineering And Coordination
- Islamic Architecture
- Environmental Design
- Environmental Architectural Engineering
- Environmental Architecture
- History And Theories Of Architecture
- Interior Architecture Engineering
- Preserving The Architectural Heritage
- Housing
- Urban Design
- Sustainable Architecture
- Architectural Management
- Design Of Health Institutions

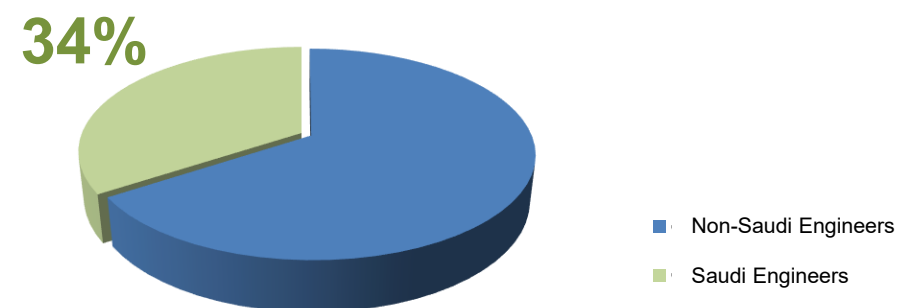
## Important Courses Under This Specialization

- Theories of architecture
- Architectural design
- Building regulations
- History of architecture
- Architecture design and drawing software

## Societal and labor market needs

Several factors emphasize the importance of graduating a larger number of specialized architects from Saudi universities:

- Statistics from the Saudi Council of Engineers in 2020 indicate that there were 163,142 registered engineers, including 55,776 Saudi engineers, accounting for 34%.
- The Council is working to gradually increase localization rates in the engineering sector in collaboration with relevant authorities.
- Furthermore, the Council has taken steps to stop the recruitment of expatriate engineers with less than five years of professional experience since 2018. They have also made it mandatory for incoming expatriate engineers to undergo a professional test and a personal interview conducted by the Council to ensure their familiarity with the profession and specialization.

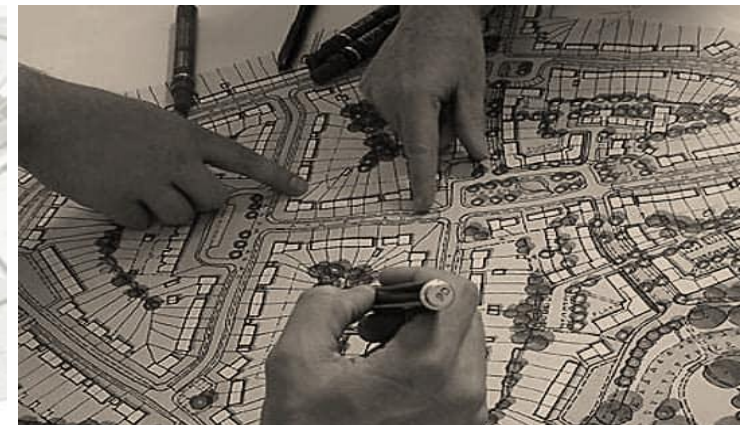
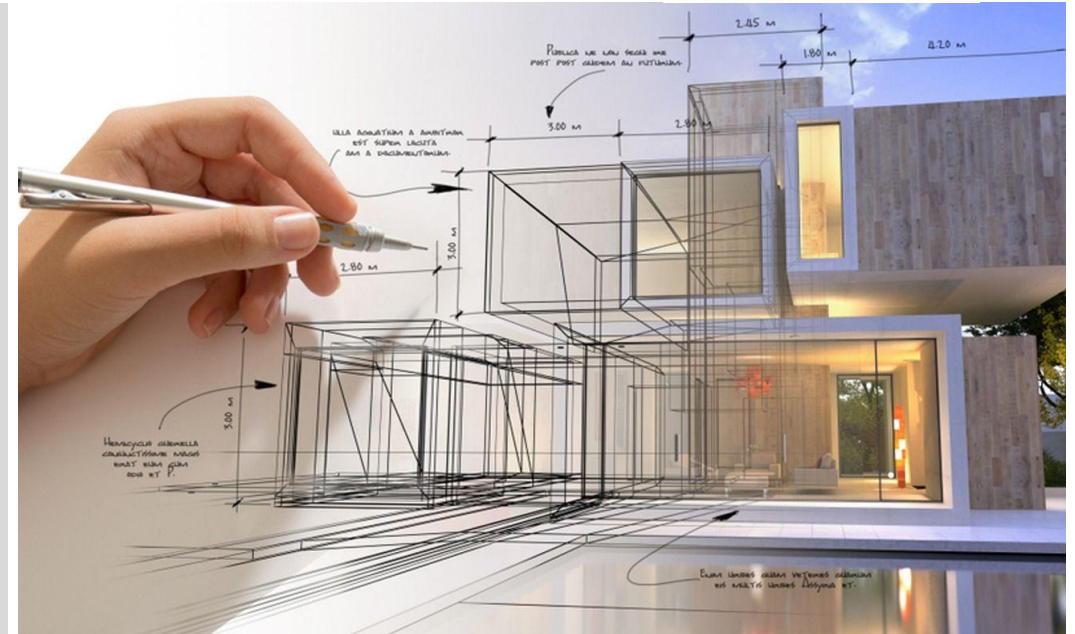




## Considering the UQU Strategy 2027

- The development of career paths aligns with the strategic goals of the university, college, and department, in accordance with the requirements of the job market. Preliminary work on creating career paths was initiated as part of Plan 47.
- A survey conducted among office owners, consultants, and real estate developers in Mecca highlighted the increasing demand for specialists in architecture, planning, and urban design.

**“ Developing the university’s educational programs to meet international quality standards, suit the needs of the labour market and development requirements in the Kingdom.”**

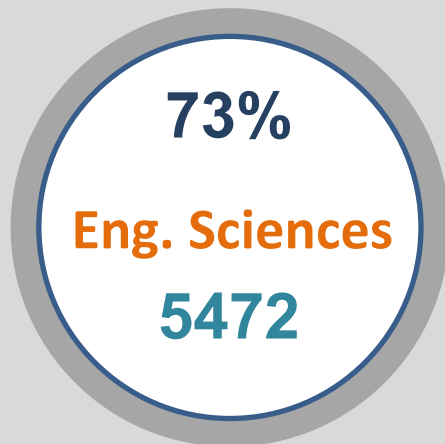


## Human Resources Development Fund

صندوق تنمية  
الموارد البشرية  
HUMAN RESOURCES  
DEVELOPMENT FUND



- According to data from the **National Labor Observatory**, the employment rate for graduates of the engineering discipline from the class of 2019 was 73% as of October 2020. This represents the second-highest employment rate after the pharmacy discipline, confirming the job market's demand for this specialization.



## The King Salman Architectural Charter

**The King Salman Architectural Charter** is a complete creative experience, born from deep thought, and a summary of a comprehensive vision of architecture. This creative endeavor is the result of a clear interaction between realistic experiences and ambitious aspirations for improvement. It has taken shape and content to establish itself as a distinguished presence among the various architectural styles.

This charter serves as a strategic foundation for urban development and the future. It provides a design methodology that highlights the Kingdom's history and culture on one hand and serves as a guiding reference for decision-makers, professionals, and those interested in architecture and urban planning on the other.

The charter aims to introduce the vision of King Salman bin Abdulaziz, in the field of urban planning. This vision is based on authenticity as the essence of creativity, flexibility capable of adapting to the new, and innovation that can break through the barriers of time, space, and materials. It envisions the potential for significant aesthetic additions beyond these boundaries.

ميثاق  
الملك  
سلمان  
الخمرايخ



### Vision of the Charter

To establish a national methodology for achieving urban excellence and improving the quality of life for all members of society by creating urban environments that draw from cultural and environmental heritage while adapting to future developments.

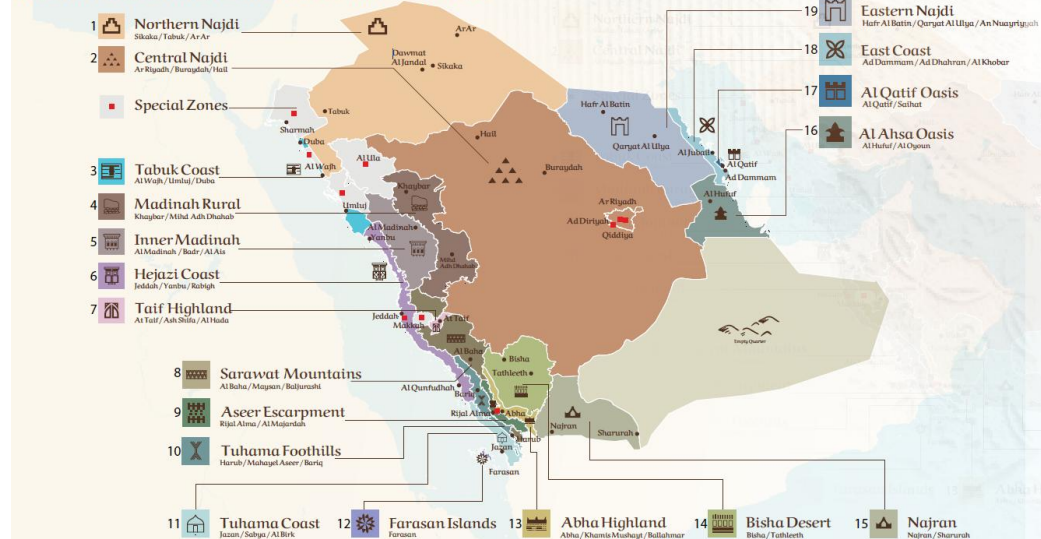
# Architectural Identities of KSA



The Architecture and Planning Program adopts the Saudi Architecture Characters Map, which was launched by His Royal Highness the Crown Prince and is distinguished by its reflection of Saudi Arabia's rich cultural and geographical diversity. The map features 19 unique architectural styles, each inspired by the Kingdom's varied environments and heritage. This initiative aligns with Vision 2030 by promoting sustainable urban planning, enhancing the quality of life, and modernizing Saudi cities.

Saudi Architecture harmonizes traditional elements with contemporary design, aiming to create urban spaces that reflect both the Kingdom's past and future. It seeks to make cities more attractive to residents, visitors, and tourists, supporting growth in sectors like tourism, hospitality, and construction. Ultimately, Saudi Architecture aspires to become a global model for innovation while empowering local talent and celebrating the Kingdom's architectural identity.

## ARCHITECTURAL IDENTITIES MAP OF KSA



<p><b>Northern Najdi</b></p> <ul style="list-style-type: none"> <li>• Sikaka</li> <li>• Tabuk</li> <li>• Ar'Ar</li> <li>• Dawmat Al Jandal</li> </ul>		<p><b>Central Najdi</b></p> <ul style="list-style-type: none"> <li>• Ar'Riyadh</li> <li>• Hail</li> <li>• Buraydah</li> </ul>		<p><b>Tabuk Coast</b></p> <ul style="list-style-type: none"> <li>• AlWajh</li> <li>• Umluj</li> <li>• Duba</li> </ul>	
<p><b>Madinah Rural</b></p> <ul style="list-style-type: none"> <li>• Khaybar</li> <li>• Mihd Adh Dhahab</li> </ul>		<p><b>Inner Madinah</b></p> <ul style="list-style-type: none"> <li>• Al Madinah</li> <li>• Badr</li> <li>• Al Ais</li> </ul>		<p><b>Hejazi Coast</b></p> <ul style="list-style-type: none"> <li>• Jeddah</li> <li>• Yanbu</li> <li>• Rabigh</li> <li>• Al Qunfudhah</li> </ul>	

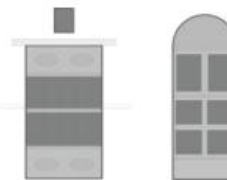
## Makkah Al-Mukarramah Architecture

These design guidelines for Makkah's architecture serve as a strategic foundation and design methodology that highlights the city's history and culture. They also act as a guide for decision-makers, specialists, and those interested in architecture and urban planning, including DA students. The guidelines aim to enhance the sense of place, improve the urban landscape and environment by integrating historical and contemporary elements, thereby achieving one of the strategic objectives of the Quality of Life Program, an offshoot of Saudi Vision 2030.

The design guidelines for Makkah's architecture support the following goals: (a) Improving the urban fabric by encouraging architectural renewal and sustainable design methods; (b) Creating a methodology to achieve urban excellence and enhance quality of life by developing architecture based on cultural and environmental heritage while embracing future developments; (c) Preserving Makkah's natural landscape and considering this in all designs; (d) Guiding architects on how to develop the architectural composition of their projects.



العنصر  
نوافذ منتظمة  
مع تقسيمات  
داخلية مختلفة



العنصر  
أروقة داخلية للمشاة



## King Salman Gate

The King Salman Gate in Makkah is a landmark development project launched in October 2025 by Crown Prince Mohammed bin Salman. Located adjacent to the Grand Mosque (Al-Masjid al-Haram), it spans approximately 12 million square meters and aims to accommodate nearly 900,000 worshippers through its vast indoor and outdoor prayer areas. The project integrates residential, hospitality, commercial, cultural, and service facilities to enhance the pilgrim experience and support Vision 2030 goals. It will also rehabilitate over 19,000 sqm of heritage sites, linking modern infrastructure with Makkah's historical identity.

Expected to generate more than 300,000 jobs by 2036, King Salman Gate is expected to significantly boost religious tourism and urban development, while improving transportation and accessibility to the Grand Mosque. Overall, it represents a transformative step toward creating a more sustainable, welcoming, and spiritually enriching environment for millions of pilgrims each year.



## Saudi Vision 2030

### ■ Human Capacity Development Program:

Among the objectives of the Human Capacity Development Program:

- The Human Capacity Development Program aims to equip citizens with the abilities to compete globally by enhancing their core skills, future-oriented skills, and knowledge development.
- The program focuses on building a robust educational foundation to prepare young individuals for both local and global job markets by improving the ranking of educational institutions and enhancing the quality of basic learning outcomes. It also ensures alignment between these outcomes and the requirements of the labor market.

Hence, the need for the development of the current program within the department arises.



Aligning with the goals of Vision 2030 of the Kingdom by:

1. Enhancing the ranking of educational institutions.
2. Improving the outcomes of basic education.
3. Ensuring alignment between educational outcomes and the needs of the job market.
4. Enhancing the readiness of youth to enter the job market.

## Saudi Vision 2030

### ■ Housing Program:

Among the objectives of the third level of the Housing Program:

#### Enhancing the urban landscape in Saudi cities

The scope of the program includes:

- a. **Redeveloping city centers to reduce the need for additional land.**
- b. **Establishing new residential projects.**

The program works to improve various aspects of the housing sector through several initiatives, including:

- a. **Increasing the number of developers in the sector.**
- b. **Contributing to job creation in this sector.**



## Saudi Vision 2030

### ■ Guests of the Merciful Program:

Among the objectives of the Guests of the Merciful Program:

#### Hosting more pilgrims and Umrah performers

This entails:

- Preparing the Holy Mosques and their urban surroundings.
- Providing optimal capacity for the Holy Mosques.
- Providing optimal capacity for the hospitality sector.
- Ensuring capacity for infrastructure and transportation networks.
- Preparing heritage and cultural sites.
- Offering the best services before, during, and after visiting Mecca, Medina, and the holy places.
- Enhancing the overall urban landscape.

برنامج خدمة  
ضيوف الرحمن



## Saudi Vision 2030

### ■ Quality-of-Life Program:

Among the objectives of the Quality-of-Life Program:

#### **Making the Kingdom a better place to live**

This is achieved through several goals, including:

- Providing services and enhancing the available infrastructure for sports, cultural, and other activities.
- Preserving Islamic, Arab, and national heritage.
- Establishing special zones and developing cities.
- Making the Kingdom a global entertainment hub through the development of leading entertain. areas.
- Reducing traffic congestion, promoting public transportation use, and decreasing traffic accident fatalities.
- Reducing various forms of pollution.
- Achieving a percentage of green spaces that meets the minimum recommended by the World Health Organization.
- Improving people's walking habits.

برنامج جودة  
الحياة



Some examples of promising projects that require more expertise in architecture, urban design and planning



NEOM

## NEOM

**A cross-border city project with the aim of transforming the Kingdom into a global model for improving aspects of life.**

This includes the creation of new cities and a complete infrastructure for the region, including a port, airport network, industrial zones, centers for supporting the arts, and innovation hubs to boost the business sector. Additionally, it involves the development of targeted economic sectors.



## THE LINE

### Why do we sacrifice nature for development?

THE LINE aims to create a comprehensive, sustainable smart city stretching over 100 miles, expected to become a million-person city by 2050.

- A city without cars, roads, congestion, or noise.
- A city completely free of carbon emissions.
- A city reliant on renewable energy sources.
- A city driven by artificial intelligence.
- A city with innovative urban design for outdoor spaces.
- A sustainable city that respects the environment.



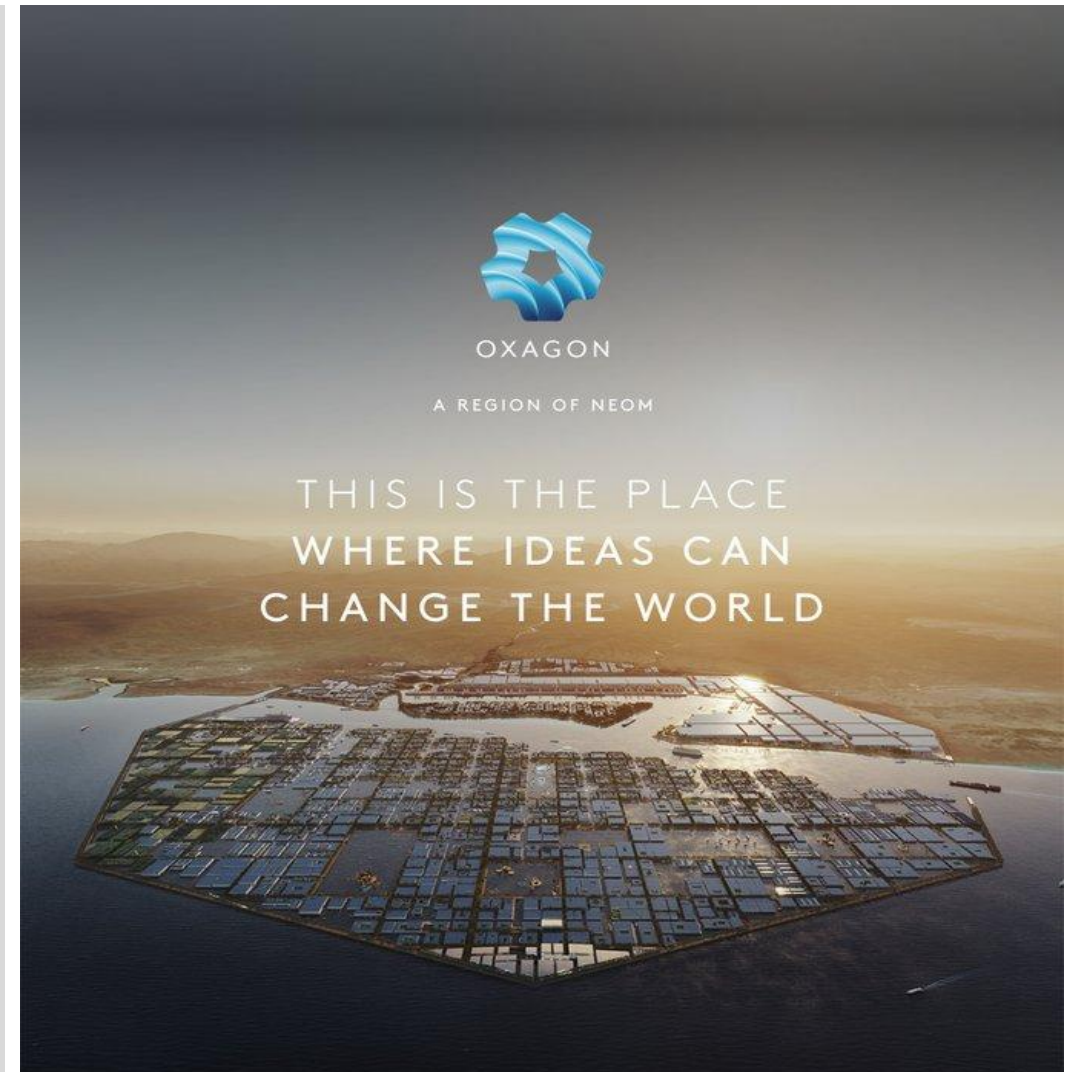
## OXAGON

### A radical transformation in urban design for manufacturing centers

It aims to present a new model for future manufacturing centers in line with NEOM's strategy, which redefines how humanity lives and works in the future.

The unique octagonal design of the center minimizes any environmental impact, as it maximizes land use to support environmental preservation.

Additionally, the center constitutes the world's largest floating structure and serves as a foundation for transitioning to the "blue economy," relying on seas for achieving sustainable development, reflecting creativity and innovation in urban design.



## Touristic Projects

The Kingdom of Saudi Arabia has made significant strides in becoming a global tourist destination, with initiatives in archaeology, culture, and the arts aimed at preserving its rich heritage and natural beauty. These efforts are part of the national transformation plan, which includes 15 major projects across the country, including housing units, hotel rooms, retail spaces, and office buildings. Notable projects include the Qiddiya Entertainment Project, the Red Sea tourist destination, Coral Bloom, Amala, Sindala, Rushen, Central Jeddah, and the Trojena project. These projects offer diverse entertainment, and residential options, contributing to the Kingdom's tourism development. Additionally, the Kingdom is gearing up to host international events such as the World Cup, Expo, and Asian Winter Games, highlighting the need for skilled graduates in architecture, urban design, and urban planning to support these endeavors.





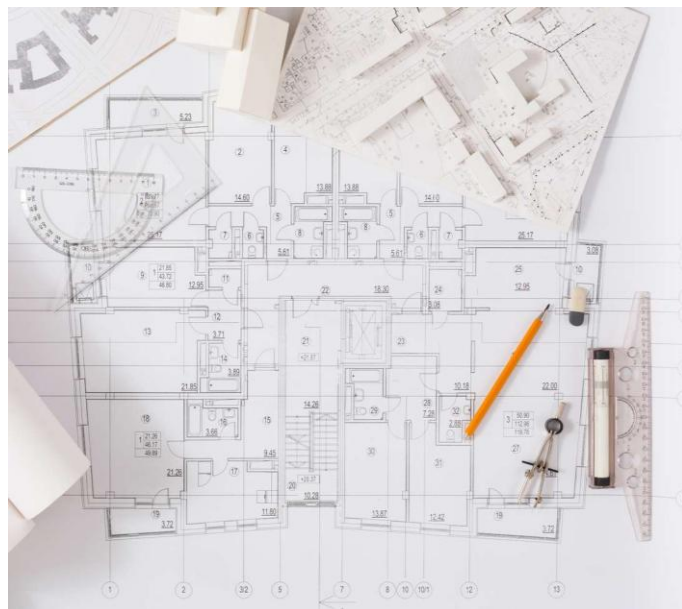
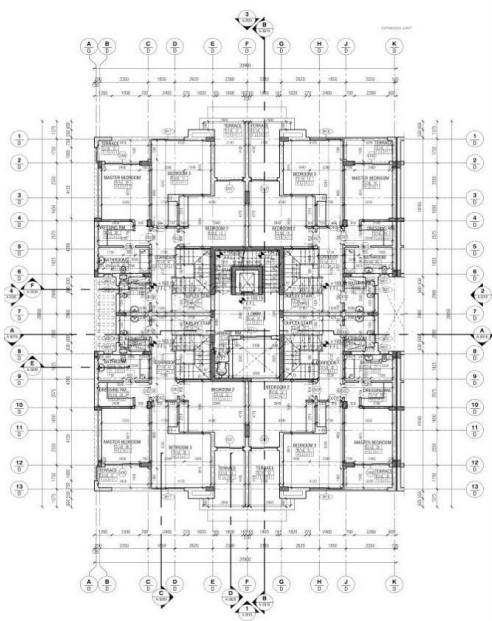
**General and  
Architecture Track**

## An overview of the Architecture track

This track was established in line with the Kingdom's Vision 2030, and the university's strategic objectives, which respond to the growing national demand for professionally trained personnel in architecture.

The track includes advanced architectural design studios, execution design studios, advanced theoretical architecture courses, etc.

Specialization in this track takes place during the last two years of the program.



<b>1</b>	Level 1	5 Architectural Formation Principles Studio ARC 1101	2 Architectural Drawing ARC 1102	2 Design Process and Methods ARC 1000	2 Ancient Civilizations and Medieval Architecture ARC 1201	2 Design Thinking IND1101	3 English Language 1 ELIN1301	2 The Holy Quran Tajweed QR1101	18
	Level 2	5 Fundamental Design Principles Studio ARC 1001	3 Visual Studies ARC 1103	2 Vector-based Drawing ARC 1104	3 Architectural Models Studio ARC 1105	3 English Language 2 ELIN1302	University Skills CUR1101	2 The Holy Quran Memorization 1 QR2102	18
<b>2</b>	Level 3	5 Small Public Buildings Design Studio ARC 2002	2 Building Construction Studio 1 ARC 2301	3 3D Modeling ARC 2106	2 Buildings Design Standards 1 ARC 2010	2 Environmental Control Systems ARC 2307	2 Introduction to Artificial Intelligence AI2001	2 The Holy Quran Memorization 2 QR2103	18
	Level 4	5 Vernacular Architecture Design Studio ARC 2003	2 Building Construction Studio 2 ARC 2302	2 Principles of Urban Design ARC 2401	2 Architecture of Islamic Civilization ARC 2202	3 Principles of Landscape Architecture ARC 2402	2 Values and Ethics ICC1201	2 Completion of the Holy Quran QR3104	18
<b>3</b>	Level 5	5 Sustainable Design Studio ARC 3004	2 Building Construction Studio 3 ARC 3303	3 Introduction to Urban Design Studio ARC 3403	2 Renaissance and Pre-modern Architecture ARC 3203	2 Principles of Urban Planning ARC 3404	2 Housing ARC 3405	2 General Elective x	18
	Level 6	5 Long-Span Buildings Design Studio ARC 3005	2 Building Construction Studio 4 ARC 3304	2 Architectural Research Methods ARC 3206	2 20th Century and Contemporary Architecture ARC 3204	3 Introduction to Urban Planning Studio ARC 3406	2 Advanced Technologies in Building Construction ARC 3305	2 Mathematics for Architects MTH1183	18
Architecture Track									
<b>4</b>	Level 7	5 Heritage Buildings Conservation Studio ARC 4006	3 Working Drawings Studio 1 ARC 4306	2 Creative Generative-Design ARC 4107	2 Buildings Design Standards 2 ARC 4011	2 Elective Course 1 ARC 421#	2 The Family in Islam ICC4202	2 Principles of Statistics for Architects MTH1681	18
	Level 8	5 Professional Practice Studio ARC 4007	3 Working Drawings Studio 2 ARC 4307	2 Integrated Architectural Design Studio 1 ARC 4008	2 Architectural Project Management 1 ARC 4503	2 Elective Course 2 ARC 411#	2 Applications of Building Code in Architecture ARC 4309	2 Professional Development Skills BUS1099	18
<b>5</b>	Level 9	6 Cooperative Training ARC 4500							6
	Level 10	5 Integrated Architectural Design Studio 2 ARC 4009	2 Economics of Architectural Projects ARC 4505	2 Professional Practice for Architects ARC 4501	2 Architectural Project Management 2 ARC 4504	2 Elective Course 3 ARC 411#	2 Universal Design Code ARC 4310	3 Graduation Project ARC 4208	18

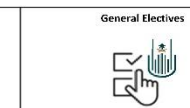
Course Types	
	University Courses
	Specialized Courses
	Track Courses
	Supportive Courses



- Elective 1**
- Islamic Values in Architecture
  - Saudi Regional Architectural Identity
  - Architecture of the Two Holy Mosques
  - Islamic Identity in Contemporary Architecture

- Elective 2**
- Photorealistic Rendering Techniques
  - Computer Modeling in Building Construction
  - AI Applications in Architecture
  - Environmental Simulation

- Elective 3**
- Resilient Urban Design
  - Sustainable Landscape Architecture
  - Human and Urban Environment
  - Urban Wayfinding



- General Electives**
- Introduction to Tourism and Hospitality Industry
  - Entrepreneurship and Innovation
  - Personal Financial Planning Skills
  - E-Commerce
  - Digital Technology

- Life Skills
- Diversity, Equity, and Inclusion
- Heritage and Cultural Diversity
- Writing and Public Speaking
- Community Health

<b>Total Program Credit Hours</b>	<b>168</b>
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## Career opportunities

As a graduate of the Architecture track, students are prepared for a career as a practicing architect in both the public and private sectors.

**Architecture graduates can look forward to the following roles:**

- Architect
- Designer
- Site Engineer
- Architectural Designer - AutoCAD
- Architectural Designer - Residential Architect
- CAD Manager
- Project Manager (Architecture)
- BIM Coordinator
- BIM Manager

# Urban Design Track

## An overview of the Urban Design track

The track was proposed in line with the Kingdom's Vision 2030, and the university's strategic objectives. It responds to the growing national demand for professionally trained personnel in urban design.

The track includes courses in urban design, landscape, urban upgrading and preservation, among others.

Specialization in this track takes place during the final two years of the Program.



<b>1</b>	Level 1	5 Architectural Formation Principles Studio ARC 1101	2 Architectural Drawing ARC 1102	2 Design Process and Methods ARC 1000	2 Ancient Civilizations and Medieval Architecture ARC 1201	2 Design Thinking IND1101	3 English Language 1 ELIN1301	2 The Holy Quran Tajweed QR1101	18
	Level 2	5 Fundamental Design Principles Studio ARC 1001	3 Visual Studies ARC 1103	2 Vector-based Drawing ARC 1104	3 Architectural Models Studio ARC 1105	3 English Language 2 ELIN1302	University Skills CUR1101	2 The Holy Quran Memorization 1 QR2102	18
<b>2</b>	Level 3	5 Small Public Buildings Design Studio ARC 2002	2 Building Construction Studio 1 ARC 2301	3 3D Modeling ARC 2106	2 Buildings Design Standards 1 ARC 2010	2 Environmental Control Systems ARC 2307	2 Introduction to Artificial Intelligence AI2001	2 The Holy Quran Memorization 2 QR2103	18
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<b>3</b>	Level 5	5 Sustainable Design Studio ARC 3004	2 Building Construction Studio 3 ARC 3303	3 Introduction to Urban Design Studio ARC 3403	2 Renaissance and Pre-modern Architecture ARC 3203	2 Principles of Urban Planning ARC 3404	2 Housing ARC 3405	2 General Elective x	18
	Level 6	5 Long-Span Buildings Design Studio ARC 3005	2 Building Construction Studio 4 ARC 3304	2 Architectural Research Methods ARC 3206	2 20th Century and Contemporary Architecture ARC 3204	3 Introduction to Urban Planning Studio ARC 3406	2 Advanced Technologies in Building Construction ARC 3305	2 Mathematics for Architects MTH1183	18
<b>4</b>	Level 7	5 New Areas Urban Design Studio ARC 4601	3 Landscape Design Studio 1 ARC 4602	2 Urban Information Systems ARC 4603	2 Urban design methodologies and techniques ARC 4604	2 Elective Course 1 ARC 462#	2 The Family in Islam ICC1202	2 Principles of Statistics for Architects MTH1681	18
	Level 8	5 Existing Areas Urban Design Studio ARC 4607	3 Landscape Design Studio 2 ARC 4608	2 Integrated Urban Design Studio 1 ARC 4609	2 Urban Environmental Control ARC 4610	2 Elective Course 2 ARC 463#	2 Sustainable Urban Design ARC 4611	2 Professional Development Skills BUS1099	18
<b>5</b>	Level 9	6 Cooperative Training ARC 4613							6
	Level 10	5 Integrated Urban Design Studio 2 ARC 4614	2 Conservation of Heritage Sites ARC 4615	2 Professional Practice of Urban Design ARC 4616	2 Urban Mobility ARC 4617	2 Elective Course 3 ARC 464#	2 Streetscape ARC 4618	3 Graduation Project ARC 4619	18

Course Types
University Courses
Specialized Courses
Track Courses
Supportive Courses



**Elective 1**

- Temporary Urbanism
- Humanizing the Cities
- Floating Cities
- City Branding

**Elective 2**

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

**Elective 3**

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

**General Electives**

- Introduction to Tourism and Hospitality Industry
- Entrepreneurship and Innovation
- Personal Financial Planning Skills
- E-Commerce
- Digital Technology

- Life Skills
- Diversity, Equity, and Inclusion
- Heritage and Cultural Diversity
- Writing and Public Speaking
- Community Health

**Total Program Credit Hours 168**

## Career opportunities

The role of the landscape designer and urban designer has become an indispensable position for any ministry, governmental department or private agency. Institutions such as the Ministry of Planning and Economy and the Ministry of Municipal and Rural Affairs are always looking for qualified professional planners. Planners are also in demand at institutions concerned with the development of service sectors such as education, health and public utilities as well as entities that develop productive sectors such as agriculture, industry, tourism and others.

### **Graduates can look forward to the following roles:**

- Landscape Designer
- Urban Designer
- Urban Design Manager

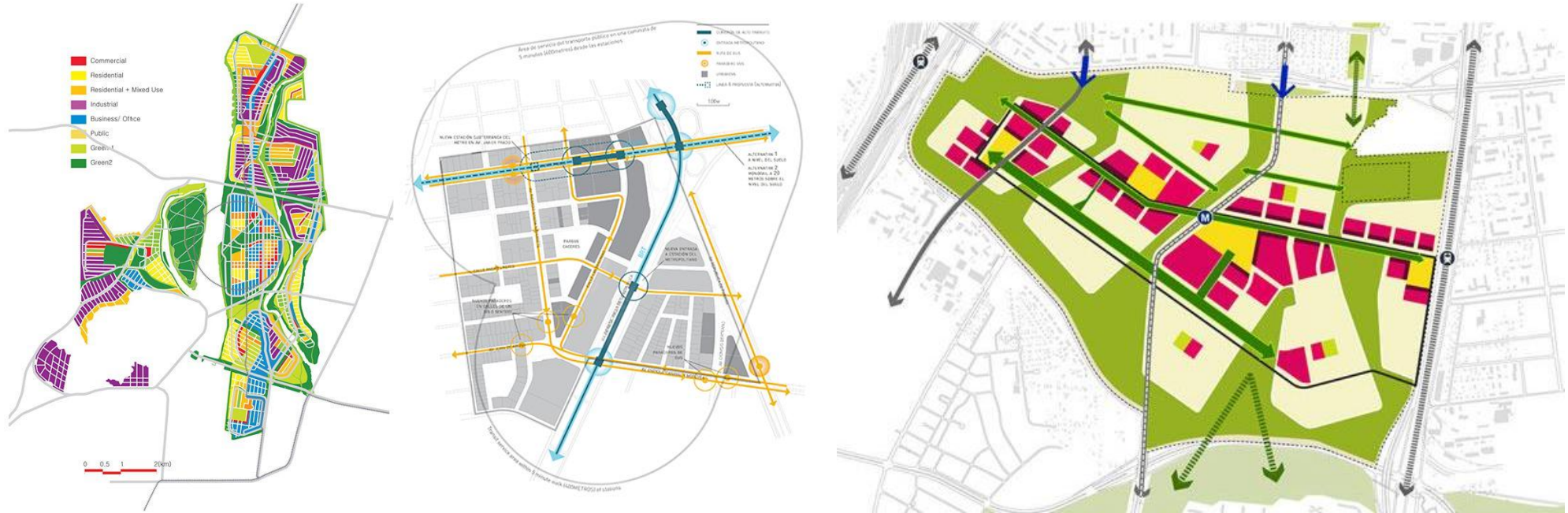
# Urban Planning Track

## An overview of the Urban Planning track

This track was proposed in line with the Kingdom's Vision 2030, rapid population and economic growth in Saudi cities, and the growing national demand for professionally trained personnel in urban planning.

The track addresses important courses that include topics such as urban development, housing planning, urban growth, transportation, infrastructure, environmental protection, and the provision of community services, among others.

Specialization in this track takes place during the final two years of the Program.



1	Level 1	5 Architectural Formation Principles Studio ARC 1101	2 Architectural Drawing ARC 1102	2 Design Process and Methods ARC 1000	2 Ancient Civilizations and Medieval Architecture ARC 1201	2 Design Thinking IND1101	3 English Language 1 ELIN1301	2 The Holy Quran Tajweed QR1101	18
	Level 2	5 Fundamental Design Principles Studio ARC 1001	3 Visual Studies ARC 1103	2 Vector-based Drawing ARC 1104	3 Architectural Models Studio ARC 1105	3 English Language 2 ELIN1302	University Skills CUR1101	2 The Holy Quran Memorization 1 QR2102	18
2	Level 3	5 Small Public Buildings Design Studio ARC 2002	2 Building Construction Studio 1 ARC 2301	3 3D Modeling ARC 2106	2 Buildings Design Standards 1 ARC 2010	2 Environmental Control Systems ARC 2307	2 Introduction to Artificial Intelligence AI2001	2 The Holy Quran Memorization 2 QR2103	18
	Level 4	5 Vernacular Architecture Design Studio ARC 2003	2 Building Construction Studio 2 ARC 2302	2 Principles of Urban Design ARC 2401	2 Architecture of Islamic Civilization ARC 2202	3 Principles of Landscape Architecture ARC 2402	2 Values and Ethics ICC1201	2 Completion of the Holy Quran QR3104	18
3	Level 5	5 Sustainable Design Studio ARC 3004	2 Building Construction Studio 3 ARC 3303	3 Introduction to Urban Design Studio ARC 3403	2 Renaissance and Pre-modern Architecture ARC 3203	2 Principles of Urban Planning ARC 3404	2 Housing ARC 3405	2 General Elective x	18
	Level 6	5 Long-Span Buildings Design Studio ARC 3005	2 Building Construction Studio 4 ARC 3304	2 Architectural Research Methods ARC 3206	2 20th Century and Contemporary Architecture ARC 3204	3 Introduction to Urban Planning Studio ARC 3406	2 Advanced Technologies in Building Construction ARC 3305	2 Mathematics for Architects MTH1183	18
Architecture Track									
4	Level 7	5 New City Urban Planning Studio ARC 4701	3 Housing Planning Studio 1 ARC 4702	2 Urban Planning Information Systems ARC 4703	2 Urban Planning Theories ARC 4704	2 Elective Course 1 ARC 472#	2 The Family in Islam ICC4202	2 Principles of Statistics for Architects MTH1681	18
	Level 8	5 Existing City Development Studio ARC 4707	3 Housing Planning Studio 2 ARC 4708	2 Integrated Urban Planning Studio 1 ARC 4709	2 Advanced Urban Information Systems ARC 4710	2 Elective Course 2 ARC 473#	2 Sustainable Cities ARC 4711	2 Professional Development Skills BUS1099	18
5	Level 9	6 Cooperative Training ARC 4713							6
	Level 10	5 Integrated Urban Planning Studio 2 ARC 4714	2 Urban Sociology and Population ARC 4715	2 Professional Practice of Urban Planning ARC 4716	2 Planning of Urban Mobility ARC 4717	2 Elective Course 3 ARC 474#	2 Regional Planning ARC 4718	3 Graduation Project ARC 4719	18

Course Type
University Courses
Specialized Courses
Track Courses
Supportive Courses



Specialized Elective Courses		
<b>Elective 1</b> <ul style="list-style-type: none"> <li>Cities and Climate Change</li> <li>Urban Conservation and Renewal</li> <li>Urban Development in Saudi Arabia</li> <li>Sustainable Urban Tourism</li> </ul>	<b>Elective 2</b> <ul style="list-style-type: none"> <li>Smart Cities</li> <li>Technology and Urban Change</li> <li>Future Urbanism</li> <li>Selected Topics in Urban and Regional Planning</li> </ul>	<b>Elective 3</b> <ul style="list-style-type: none"> <li>Urban Risk Management</li> <li>Urban Governance</li> <li>Urban Economies</li> <li>Urban Indicators</li> </ul>

General Electives	Total Program Credit Hours
<ul style="list-style-type: none"> <li>Introduction to Tourism and Hospitality Industry</li> <li>Entrepreneurship and Innovation</li> <li>Personal Financial Planning Skills</li> <li>E-Commerce</li> <li>Digital Technology</li> </ul>	<ul style="list-style-type: none"> <li>Life Skills</li> <li>Diversity, Equity, and Inclusion</li> <li>Heritage and Cultural Diversity</li> <li>Writing and Public Speaking</li> <li>Community Health</li> </ul>
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## Career opportunities

The role of the urban planner has become an indispensable position for any ministry, governmental department or private agency.

Institutions such as the Ministry of Planning and Economy and the Ministry of Municipal and Rural Affairs are always looking for qualified professional planners. Planners are also in demand at institutions concerned with the development of service sectors such as education, health and public utilities as well as entities that develop productive sectors such as agriculture, industry, tourism and others.

### **Graduates can look forward to the following roles:**

- Urban Planner
- Urban/City Facilities Planning Engineer
- Principal City Planner



**Summary of  
Course Descriptions**

This section presents brief descriptions of courses in the curriculum for Bachelor of Architecture and Planning program. It includes description of core and elective courses in each track.

## 1. General Architecture Courses

### **ARC 1101 - Architectural Formation Principles Studio (5 CH.)**

This studio focuses on the fundamental elements of architectural formation. Students will explore the primary components of design—point, line, and plane—while examining the visual properties of form and space, including materials, light, texture, pattern, and color. The course also covers the concepts of proportion, scale, and ordering principles, helping students understand how these elements work together to create cohesive 3D compositions. Students will develop foundational skills in visual studies and representation through studio assignments and projects.

### **ARC 1102 - Architectural Drawing (2 CH.)**

This course provides a comprehensive introduction to architectural graphics, focusing on the manual skills required to convey design ideas through visual representation. Students will learn key graphic tools and drafting conventions, with an emphasis on orthographic projection and its relationship to 3D models. The course also covers essential topics such as scale and dimensioning, equipping students with the foundational skills necessary to create effective architectural drawings and presentations.

### **ARC 1000 - Design Process and Methods (2 CH.)**

This course offers an in-depth exploration of architectural design processes and methods, focusing on space program analysis, site analysis, design philosophy, and the development of human-centered design proposals. Students will apply these concepts to the design of a housing unit, learning how to make informed design decisions throughout the process. The course also emphasizes the development of diagram drawing techniques to enhance design communication and presentation.

### **ARC 1201 - Ancient Civilizations and Medieval Architecture (2 CH.)**

This course provides an overview of ancient architecture from prehistoric times to the end of the medieval period, focusing on the cultural, technological, and aesthetic developments throughout history. Key architectural traditions covered include Mesopotamian, ancient Egyptian, Greek, Roman, Byzantine, and Gothic architecture, with an additional focus on the traditional architecture of China and Japan. Students will gain a deeper understanding of how these architectural styles shaped and reflected their respective societies.

### **IND1101 - Design Thinking (2 CH.)**

كأداة لحل المشكلات بطرق إبداعية وابتكارية (Design Thinking) يتضمن هذا المقرر تعريف الطالب بمنهجية التفكير التصميمي ودمجه بالتكنولوجيا الحديثة مثل: تقنيات الذكاء الاصطناعي، وذلك من خلال الفهم العميق لاحتياجات المستخدمين، توليد الأفكار، النمذجة الأولية، والاختبار المستمر للحلول والمعالجات للمشكلات الواقعية بالاستفادة من أدوات التكنولوجيا الحديثة وتقنيات الذكاء الاصطناعي. مع التركيز على المنهجية لتطوير حلول تصميمية واقعية وقيمة في مختلف التخصصات والعلوم النظرية والعملية.

### **ELIN1301 - English Language 1 (3 CH.)**

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

### **QR1101 - The Holy Quran Tajweed (2 CH.)**

يشتمل المقرر على دراسة أحكام التجويد دراسة نظرية، مع تلاوة سورتي البقرة وآل عمران تلاوة مجودة وفق ما تم دراسته.

### **ARC 1001 - Fundamental Design Principles Studio (5 CH.)**

This studio course introduces students to the fundamentals of architectural design, focusing on the application of design processes and methods. Students begin by exploring residential spaces furniture and analyzing the functional relationships between them. The course culminates in the design of housing units, where students apply these principles while considering the social and cultural context of Saudi society. This studio fosters critical thinking and culturally responsive design solutions.

### **ARC 1103 - Visual Studies (3 CH.)**

This course focuses on developing freehand sketching skills and architectural visual representation. Students will learn perspective types, including one-point and two-point perspectives, for accurately representing three-dimensional architectural forms. The course covers techniques for drawing both exterior and interior perspectives, as well as casting shades and shadows on two- and three-dimensional drawings. Various rendering techniques, such as pencils, colored pencils, markers, pens, and ink, will be explored to enhance the visual impact of architectural drawings.

### **ARC 1104 - Vector-based Drawing (2 CH.)**

This course introduces the fundamentals of Computer-Aided Design (CAD), focusing on basic drafting commands and standard methods for creating technical 2D drawings. Students will learn to navigate CAD software, apply essential drafting techniques, and produce accurate, professional-grade architectural drawings. Students will apply their knowledge through practical exercises, focusing on the housing unit they currently design in the architectural design studio.

### **ARC 1105 - Architectural Models Studio (3 CH.)**

This studio introduces the fundamentals of architectural model-making, emphasizing its role in developing and communicating design ideas. Students will learn how to conceptualize and construct architectural models as a bridge between design concepts and their physical realization. The studio covers various model-building techniques and materials, allowing students to explore different approaches to representing architectural ideas in three-dimensional form. Studio projects help students refine their skills in crafting accurate and expressive models.

### **ELIN1302 - English Language 2 (3 CH.)**

English Language 2 is a single-level, English for General Purposes (EGP) course. All students are required to take this course in the second semester of the first year of their program. The course intends to develop students' knowledge and ability of English language in reading, writing, listening, and speaking, as well as in sub-skills including grammar, vocabulary, and pronunciation.

### **CUR1101 - University Skills (0 CH.)**

يهدف المقرر لتعريف الطلبة وتدريبهم على استخدام المهارات المرتبطة بالنجاح في إطار البيئة الجامعية من حيث التعريف بمكونات المجتمع الجامعي وخصائصه وملامح البيئة الجامعية الفاعلة واستراتيجيات التعليم والتعلم وطرق الاستذكار وإدارة الوقت، ومهارات معالجة المعلومات ومهارات البحث العلمي واستخدام التقنية والبحث في قواعد البيانات، ومهارات التواصل الفعال في البيئة الجامعية. وتنمية مهارات التفكير بمختلف أنواعه ومهارات الكتابة الأكاديمية والقراءة بوصفهما أداتين لتنمية مهارات الدراسة الجامعية.

### **QR2102 - The Holy Quran Memorization 1 (2 CH.)**

يشتمل المقرر على حفظ سورة الكهف، مع تطبيق أحكام التجويد، وشرح معاني غريب الكلمات القرآنية في السورة.

### **ARC 2002 - Small Public Buildings Design Studio (5 CH.)**

This studio course focuses on the design of small-scale public buildings such as kindergartens, restaurants, post offices, bank branches, and fire stations. It builds on values, knowledge, and skills acquired in previous courses, applying them creatively to project development. Students engage in all design phases, from concept to detailed planning, while honing their CAD software skills. The studio fosters comprehensive architectural problem-solving to develop sound design decisions and creative architectural solutions.

### **ARC 2301 - Building Construction Studio 1 (2 CH.)**

This studio illustrates fundamental properties of building materials. It also emphasizes the crucial first phase of construction: site preparation, safety, foundations, and bearing-walls working drawings. Students will apply their knowledge through practical exercises, focusing on the preparation of construction sites, foundations, and bearing-walls working drawings for the housing unit they have previously designed in Fundamental Design Principles Studio.

### **ARC 2106 - 3D Modeling (3 CH.)**

This course introduces students to 3D modeling for architectural design, a crucial tool for visualizing exterior and interior projects. Students will learn to use computer modeling software efficiently, covering detailed procedures such as texture mapping, navigation, lighting, rendering, and animation. The course emphasizes practical application, with students applying their skills to the housing unit they previously designed in the architectural design studio, enhancing their ability to create highly appealing visualizations.

### **ARC 2010 - Buildings Design Standards 1 (2 CH.)**

This course provides foundational knowledge and skills for analyzing building elements and understanding design standards for various types of simple buildings. Students will explore considerations for different building types, including small libraries, schools, restaurants, clinics, banks, art galleries, malls, cinemas, exhibitions, office buildings, and mosques. The course emphasizes practical analysis of design requirements and standards, preparing students to approach diverse architectural projects with a comprehensive understanding of functional and regulatory considerations.

### **ARC 2307 - Environmental Control Systems (2 CH.)**

This course explores the interaction between buildings and climate, focusing on creating comfortable and controlled environments for occupants. It examines both natural and man-made effects on building performance and comfort. Students will study examples of passive design strategies tailored to hot-humid and hot-arid climates, learning techniques to enhance building efficiency and user comfort through climate-responsive design approaches.

### **AI2001 - Introduction to Artificial Intelligence (2 CH.)**

يقدم هذا المقرر للطلاب المفاهيم الأساسية في مجال الذكاء الاصطناعي، حيث يتم استعراض المبادئ النظرية والتطبيقية لهذا المجال. يغطي المقرر مفهوم وتاريخ وتطور الذكاء الاصطناعي والتقنيات الأساسية التي يعتمد عليها. كما يركز على تطبيقات الذكاء الاصطناعي في مجالات متنوعة وتأثيرها على الحياة اليومية، بالإضافة إلى مناقشة الجوانب الأخلاقية والتحديات المرتبطة بهذا المجال.

### **QR2103 - The Holy Quran Memorization 2 (2 CH.)**

يشتمل المقرر على حفظ سورة الكهف، مع تطبيق أحكام التجويد، وشرح معاني غريب الكلمات القرآنية في السورة.

### **ARC 2003 - Vernacular Architecture Design Studio (5 CH.)**

This studio course highlights the significance of architectural heritage and its impact on contemporary design. Students will review traditional design and construction methods from various regions of Saudi Arabia and explore how these can be revived and adapted for modern projects. The course emphasizes integrating historical techniques with contemporary design practices, encouraging students to innovate while respecting and preserving architectural heritage.

### **ARC 2302 - Building Construction Studio 2 (2 CH.)**

This studio explores the conventional construction systems. Moreover, it illustrates various types of insulation and building joints, as well as the details of doors and windows and vertical movement elements (stairs and ramps). Through hands-on projects, students will apply their knowledge to the housing units they previously designed in the architectural design studio.

### **ARC 2401 - Principles of Urban Design (2 CH.)**

This course introduces students to essential concepts and principles of urban design, focusing on methodologies that effectively shape urban environments. Through lectures, students will develop foundational urban design skills, preparing them for active participation in subsequent urban design studio and specialized studios of urban design track.

### **ICC1201 - Values and Ethics (2 CH.)**

يقدم هذا المقرر مادة علمية تأصيلية عن القيم والأخلاق في الإسلام، من حيث مفهومها وأهميتها وأسسها وأبرز جوانبها. وعن الجانب الخُلقي العظيم لرسولنا الكريم صلى الله عليه وسلم، ثم يعرض تطبيقات قيمة وأخلاقية ترقى بالمجتمع وتحافظ عليه.

### **QR3104 - Completion of the Holy Quran (2 CH.)**

يشتمل هذا المقرر على تلاوة آيات القرآن الكريم، من سورة النساء إلى سورة الناس، تلاوة مجودة، وبيان معاني غريب الكلمات القرآنية في السور المقررة، والالتزام بأحكام التجويد وأدائه.

**ARC 3004 - Sustainable Design Studio (5 CH.)**

This course focuses on integrating environmental sustainability into architectural design through passive and active design principles. It introduces a sustainable framework for creating healthy, efficient, and green buildings. Students will build upon this knowledge by applying sustainable strategies and technologies to a medium-sized design project. By the end of the course, students will be equipped to select and implement appropriate solutions to enhance a building's environmental performance and sustainability.

**ARC 3303 - Building Construction Studio 3 (2 CH.)**

This studio focuses on producing detailed technical drawings of building installations. It covers mechanical, plumbing, and electrical systems, along with acoustical and illumination systems. Additionally, students explore smart technologies such as IoT and computer-based systems. Using their previously designed housing units, students will execute detailed drawings of water supply, drainage, electrical, and mechanical systems, as well as lighting treatments, ensuring a comprehensive understanding of building technical installations.

**ARC 3403 - Introduction to Urban Design Studio (3 CH.)**

This studio introduces students to the practical application of key concepts and principles in urban design, focusing on understanding the urban environment. Through small-scale urban design assignments, students will build upon their previously acquired skills, applying them to real-world scenarios. The course emphasizes hands-on learning and encourages the development of foundational urban design techniques, preparing students for more advanced studios in the urban design track.

**ARC 3203 - Renaissance and Pre-modern Architecture (2 CH.)**

This course introduces students to world architecture from the Renaissance through the 18th and 19th centuries, leading up to the pre-modern period. It explores the cultural, technological, and aesthetic developments that shaped architectural history during these eras. Emphasis is placed on the works and trends of architects and movements, helping students understand the evolution of architectural styles and their impact on the built environment through time.

**ARC 3404 - Principles of Urban Planning (2 CH.)**

This course provides a foundational introduction to urban planning, serving as a prelude to the "Introduction to Urban Planning Studio" and other studios in the urban planning track. It explores the history of cities, land use, urban services and infrastructure, essential studies required, and data collection and analysis. Students will cover topics such as urban planning studies, demographic and economic studies, environmental studies, SWOT analysis, and vision and objective determination. This comprehensive understanding equips students with the tools necessary for effective urban planning.

**ARC 3405 - Housing (2 CH.)**

This course explores key definitions and concepts related to housing, including shelter, population, and area density. Students will examine different housing types, factors influencing housing design, and criteria for addressing design considerations. The course also tackles common housing problems and solutions, with a focus on sustainable and livable communities. In its final phase, the course emphasizes neighborhood planning, providing students with the skills to design functional and cohesive residential areas.

**x - General Elective (2 CH.)**

Specified Below

**ARC 3005 - Long-Span Buildings Design Studio (5 CH.)**

This course provides an in-depth understanding of various long-span structural systems essential for architectural design. Students will explore various long-span structural systems, including folded plates, shells, tents, cables, trusses, space trusses, and space frames. The course aims to equip students with the knowledge to select and apply appropriate construction materials and structure systems for projects involving large spans.

**ARC 3304 - Building Construction Studio 4 (2 CH.)**

This course provides a comprehensive overview of exterior and interior finishing materials and techniques. It covers the key materials and methods for finishing building facades, including curtain walls, glass blocks, aluminum cladding, brickwork, and stucco. It also introduces interior wall finishes such as wood paneling and paints, as well as ceiling finishes like false ceilings and gypsum boards. Additionally, the course explores floor surface finishes, including tiles, hardwood, vinyl, and marble. Using previously designed housing unit, students will apply gained knowledge

**ARC 3206 - Architectural Research Methods (2 CH.)**

This course provides students with a comprehensive understanding of research methods in the field of architecture. It equips students with the skills to identify research problems and questions, collect and analyze relevant data, and effectively communicate their research findings. Emphasizing both qualitative and quantitative approaches, the course prepares students to conduct independent research, contributing to academic knowledge and addressing challenges in the field of architectural and urbanism.

**ARC 3204 - 20th Century and Contemporary Architecture (2 CH.)**

This course introduces students to twentieth-century architecture, focusing on the pioneers and movements of modernism and their impact on architectural design. It examines the interaction between philosophical, cultural, ethical, and socio-economic concepts with architectural form and expression. Through case studies and discussions, students will explore how modernism shaped contemporary architecture.

**ARC 3305 - Advanced Technologies in Building Construction (2 CH.)**

This course explores the impact of emerging technologies and materials on building construction and operation, emphasizing energy efficiency, environmental sustainability, and health and safety. Topics include the future of construction, nanotechnology, smart materials, advanced renewable energy systems, and the role of robotics. Students will also investigate AI, VR/AR/MR applications, 3D printing, and various dimensions of Building Information Modeling (BIM). The course provides a comprehensive overview of how these innovations integrate to enhance construction practices.

### **MTH1183 - Mathematics for Architects (2 CH.)**

This course introduces essential mathematical concepts needed for architectural studies, focusing on geometry and calculus. Topics include a review of trigonometry, calculations of areas and volumes for basic geometric figures, and the analytic geometry of lines, planes, and vectors in two and three dimensions. The course also covers differential and integral calculus, emphasizing practical applications such as optimization problems and determining areas and volumes through integration. These foundational skills will enable students to approach architectural challenges with confidence and precision.

## **2. Architecture Courses**

### **ARC 4006 - Heritage Buildings Conservation Studio (5 CH.)**

This studio emphasizes the significance of architectural heritage, introducing students to the criteria for identification, classification, documentation, and various levels of conservation. It addresses threats to heritage buildings, including neglect, lack of maintenance, and deterioration. Through hands-on project, students will apply their knowledge by engaging in the conservation and adaptive reuse of a significant heritage building in Saudi Arabia, demonstrating practical approaches to preserving architectural heritage while maintaining its relevance for contemporary use.

### **ARC 4306 - Working Drawings Studio 1 (3 CH.)**

This course introduces students to the professional working drawings, building on knowledge from previous construction studios. Students will apply this knowledge to a previously designed small-scale public building, focusing on dimensioning, coordination, annotation, and coding systems. The course emphasizes the coordination of architectural, structural, and electromechanical requirements, as well as detailed blow-up drawings.

### **ARC 4107 - Creative Generative-Design (2 CH.)**

This course introduces students to generative design technologies, providing computational tools and algorithms that act as a copilot in the design process. It explores the potential of parametric modeling, scripting, and generative systems in architectural design. Students will experiment with form generation, evaluation, and optimization methods, building on an extensive palette of parametric and analytical tools. The course encourages creative exploration, leveraging computation to enhance and optimize architectural design outcomes.

### **ARC 4011 - Buildings Design Standards 2 (2 CH.)**

This course provides students with the knowledge and skills to analyze building elements and identify design standards for various complex building types, including hotels, hospitals, museums, theaters, and cultural centers. It also covers design considerations for specialized structures like airports, stadiums, public libraries, city halls, and courthouses. Students will learn to apply these standards in the design process, addressing the unique functional and spatial requirements of each building type.

### **ARC 421# - Elective Course 1 (2 CH.)**

Specified Below

### **ICC4202 - The Family in Islam (2 CH.)**

يقدم هذا المقرر مادة علمية تأسيسية تبين فيها أهمية الأسرة، من حيث مفهومها، ومكانتها، ومقاصد بنائها. وهدى الإسلام في حل المشكلات والتعامل معها، وكيفية تقديم دراسة تحليلية لأسرتي خليلي الرحمن، إبراهيم ومحمد عليهما الصلاة والسلام

### **MTH1681 - Principles of Statistics for Architects (2 CH.)**

This course introduces architects to fundamental concepts and techniques in statistics, providing essential tools for data analysis and interpretation in architectural and urban practice. Focusing on descriptive statistics and basic probability theory, the course equips students with the skills to analyze data, identify trends, and make informed, evidence-based decisions.

### **ARC 4007 - Professional Practice Studio (5 CH.)**

This studio focuses on designing a real project, reinforcing the fundamentals of architectural professional practice. Students will build upon the values, knowledge, and skills acquired in previous courses, applying them creatively to various development phases of the project. The project's location will be determined in coordination with relevant public or private sector authorities or by the studio coordinator, ensuring a practical and contextually relevant design experience.

### **ARC 4307 - Working Drawings Studio 2 (3 CH.)**

This studio focuses on the preparation of quantities and specifications for architectural projects. Students will learn methods for writing construction specifications, with an emphasis on using industry standards and master guides, particularly Saudi Building Code. The studio also covers techniques for calculating material quantities. Students will apply these concepts to a small administrative building project previously developed in "Execution Design Studio 1" reinforcing practical skills in construction documentation.

### **ARC 4008 - Integrated Architectural Design Studio 1 (2 CH.)**

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.

### **ARC 4503 - Architectural Project Management 1 (2 CH.)**

This course is designed for undergraduate architecture students and introduces key concepts in construction management. It covers terminology, types of construction projects, and the roles and responsibilities of construction managers. The course provides an overview of contract documents, various construction contracts, and project delivery methods, with a focus on critical path analysis for project planning. Additionally, students will be introduced to computer-based applications used in construction management, enhancing their practical skills in the field.

### **ARC 411# - Elective Course 2 (2 CH.)**

Specified Below

**ARC 4309 - Applications of Building Code in Architecture (2 CH.)**

This course provides an overview of both local and international building codes and regulations, with a focus on the Saudi Building Code (SBC 201). Students will explore essential topics, gaining an understanding of the regulations and standards required for safe and efficient practices. The course emphasizes the importance of adhering to both local and international guidelines in professional architectural practice in Saudi Arabia.

**BUS1099 - Professional Development Skills (2 CH.)**

يركز المقرر على تطوير مهارات الطلاب اللازمة لدخول سوق العمل بكفاءة، بما يشمل البحث عن الوظيفة، إعداد السيرة الذاتية، اجتياز المقابلات، والتخطيط المهني. كما يعزز مهارات التواصل والعمل الجماعي ويغرس القيم الأخلاقية في بيئة العمل.

**ARC 4500 - Cooperative Training (6 CH.)**

This course provides students with the opportunity to apply their theoretical knowledge in real-world architectural settings. It bridges academic learning and professional practice, enhancing students' skills and career readiness. Through hands-on experience, students explore career interests within the architectural field while adhering to the rules and regulations of the host firm. The department arranges training opportunities with architectural firms, though students may request training in specific institutions with prior supervisor approval. Student should pass 100 hrs. at least to attend this training.

**ARC 4009 - Integrated Architectural Design Studio 2 (5 CH.)**

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.

**ARC 4505 - Economics of Architectural Projects (2 CH.)**

This course introduces students to the fundamentals of economics and its influence on construction, preparing them to make informed economic decisions in architectural projects. Key topics include the time value of money, cash flow analysis, and factors affecting building costs. The course covers the principles of bill-of-quantity (BOQ), cost estimation, and value engineering. Advanced concepts in building economics and the impact of technical specifications on operation costs are also explored.

**ARC 4501 - Professional Practice for Architects (2 CH.)**

This course provides a comprehensive overview of the principles of professional architectural practice in Saudi Arabia. It covers ethical standards, the Code of Conduct, and the legal frameworks governing the profession. Additionally, the course explores the architect's role and responsibilities, as well as essential professional skills such as resume preparation, portfolio development, interview techniques, and hiring processes. Students will be well-prepared for a responsible, competent, and effective career in architecture.

**ARC 4504 - Architectural Project Management 2 (2 CH.)**

This course builds upon the foundational knowledge gained in Architectural Project Management I. It

dives deeper into advanced project management techniques, including scheduling, resource allocation, leveling, project control, and construction supervision. Students will also explore more advanced applications of computer-based tools and software in construction management.

**ARC 441# - Elective Course 3 (2 CH.)**

Specified Below

**ARC 4310 - Universal Design Code (2 CH.)**

This course explores the principles and practices of universal design, a design philosophy that aims to create inclusive environments accessible to people of all abilities. Students will learn about the benefits of universal design and how it can enhance the quality of life for individuals with disabilities. The course will delve into strategies for designing accessible and equitable built environments, focusing on architectural solutions that address the needs of diverse user groups.

**ARC 4208 - Graduation Project (3 CH.)**

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.

## 3. Architecture Elective Courses

**ARC 4211 - Islamic Values in Architecture (2 CH.)**

This course examines how Islamic teachings, rooted in principles such as privacy, humility, and hospitality, have historically shaped the design of Muslim's built environments and regulated spatial and social behaviors. By reviewing architectural features across various cities, in addition to their adaptation to diverse environments, the course highlights the enduring role of religious values as pillars of Islamic architecture. Students will explore how these principles can guide contemporary design practices to preserve local identity while meeting modern societal needs

**ARC 4212 - Saudi Regional Architectural Identity (2 CH.)**

This course delves into Architectural Identities of KAS and the King Salman Charter for Architecture and Urbanism, which provide a strategic framework for the future of architecture and urbanization in Saudi Arabia. It emphasizes a design methodology that respects the nation's rich history and cultural heritage while offering practical guidance for decision-makers and specialists. Students will explore how to shape contemporary architectural practice, ensuring a balance between tradition and modernity in urban and architecture development.

**ARC 4213 - Architecture of the Two Holy Mosques (2 CH.)**

This course focuses on the historical establishment and Saudi expansions of Al Masjid al-Haram and the Prophet's Mosque, examining their role in shaping the urban fabric of Makkah and Madinah and their significant impacts on the surrounding urban environments. Topics include the architectural, social, and cultural effects of these expansions, as well as critical issues related to crowd management, and security and safety within these sacred spaces.

**ARC 4214 - Islamic Identity in Contemporary Architecture (2 CH.)**

This course examines the recent development of architecture with Islamic identity, focusing on how Islamic principles and traditions are interpreted in modern architectural design. Students will explore the challenges and opportunities architects face in creating buildings that authentically reflect Islamic identity while addressing contemporary needs and contexts. The course emphasizes the balance between tradition and innovation, providing insights into how architecture with Islamic identity evolves in today's globalized world.

**ARC 4111 - Photorealistic Rendering Techniques (2 CH.)**

This course introduces the fundamentals of photorealistic rendering, focusing on creating 3D images indistinguishable from reality. Students will learn advanced rendering techniques and explore post-production processes, such as adding backgrounds and people cutouts. The course emphasizes final image adjustments, including fine-tuning hue, saturation, and contrast. Through hands-on practice, students will master the skills required to produce polished, lifelike architectural visualizations.

**ARC 4112 - Computer Modeling in Building Construction (2 CH.)**

This course introduces Building Information Modeling (BIM) as a solution to the construction industry's productivity challenges. Students will explore the advantages of BIM in design, construction process management, and operations. The course covers the transition to BIM technologies and their role in improving efficiency and collaboration in construction projects. Additionally, students will gain foundational skills in using BIM software tools within the building construction field.

**ARC 4113 - AI Applications in Architecture (2 CH.)**

This course explores the integration of artificial intelligence (AI) into architecture, offering students a comprehensive understanding of AI techniques and their applications across design, planning, and construction processes. Topics also include how AI can enhance creativity, optimize building performance, and streamline workflows. Students will investigate AI-driven tools and technologies, gaining insights into the future potential of AI in revolutionizing architectural practice and shaping the built environment.

**ARC 4114 - Environmental Simulation (2 CH.)**

This course equips students with the skills to use simulation software for predicting and optimizing the environmental performance of spaces or buildings. Students will learn to virtually model geometry, materials, environmental factors, and occupancy patterns of real or assumed structures. The course covers the fundamentals of simulation, required inputs and outputs, and software accuracy. Through hands-on practice, students will manipulate design parameters and rerun simulations to enhance building performance.

**ARC 4411 - Resilient Urban Design (2 CH.)**

This course explores the principles and practices of urban design that can withstand and adapt to various environmental, social, and economic challenges. As urban areas face increasing pressures from climate change, population growth, and resource scarcity, resilience has become a critical component of sustainable urban design. Students will engage with concepts of resilience theory, adaptive systems, and disaster preparedness, applying them to urban design strategies that create flexible and robust communities.

**ARC 4412 - Sustainable Landscape Architecture (2 CH.)**

This course provides an in-depth introduction to sustainable landscape principles, focusing on xeriscaping strategies, technologies, and best practices. It covers a wide range of topics, including the design, construction, and management of sustainable systems for hydrology, vegetation, soils, and materials, with an emphasis on promoting human health and well-being. Through practical examples, students will explore the integration of these elements in creating environmentally responsible landscapes that thrive in arid environments.

**ARC 4413 - Human and Urban Environment (2 CH.)**

This course offers students the opportunity to explore the mutual relationship between humans and urban environments through in-depth investigations. It enhances students' understanding of contemporary human issues, including environmental preservation and the impact of the information revolution on the built environment. Weekly seminars provide a platform for students to present on selected topics and engage in discussions and brainstorming sessions with peers, fostering critical thinking and collaborative learning.

**ARC 4414 - Urban Wayfinding (2 CH.)**

This course focuses on the principles of wayfinding in urban environments, exploring its importance in enhancing navigation, accessibility, and safety. Students will examine the behaviors of wayfinders, the fundamentals of urban design that support effective wayfinding, and key concepts such as the movement perceptual system and cognitive mapping. The course covers essential wayfinding elements, along with the types of information needed to guide people through outdoor spaces efficiently.

## 4. Urban Design Track

**ARC 4601 - New Areas Urban Design Studio (5 CH.)**

This studio course focuses on the planning and design of large-scale urban projects such as international exhibitions (EXPO), entertainment parks, airport cities, financial centers, heritage tourism centers, and sustainable tourism hubs. Students start by identifying project objectives and problems, studying similar examples, and conducting site analyses. They will develop and evaluate urban design alternatives, selecting and refining the most suitable option to create a comprehensive final layout.

**ARC 4602 - Landscape Design Studio 1 (3 CH.)**

This course emphasizes the development of large-scale urban landscape projects, where students apply their skills to create both functional and innovative designs. The studio covers the execution of hardscape and softscape elements across different design phases. Additionally, students will learn to write detailed landscape specifications and calculate quantities, gaining a foundation in professional project documentation essential for the effective implementation of their designs.

**ARC 4603 - Urban Information Systems (2 CH.)**

This course introduces the fundamental principles of Geographic Information Systems (GIS), emphasizing its application in urban design. Students will gain an understanding of GIS technology

and its practical uses, including data entry, editing, and simple analysis. The course also covers data visualization techniques and map layout preparation, providing both theoretical knowledge and hands-on experience to support urban design tasks in the profession.

#### **ARC 4604 - Urban design methodologies and techniques (2 CH.)**

This course explores urban design methodologies and techniques. In addition, it illustrates theories of urban design, focusing on how urban physical form interacts with economic, cultural, social, aesthetic, and natural forces. The course emphasizes a critical analysis of how these theories influence the design and development of public spaces in urban environments.

#### **ICC4202 - The Family in Islam (2 CH.)**

يقدم هذا المقرر مادة علمية تأصيلية تبين فيها أهمية الأسرة، من حيث مفهومها، ومكانتها، ومقاصد بنائها. وهدى الإسلام في حل المشكلات والتعامل معها، وكيفية تقديم دراسة تحليلية لأسرتي خليلي الرحمن، إبراهيم ومحمد عليهما الصلاة والسلام

#### **MTH1681 - Principles of Statistics for Architects (2 CH.)**

This course introduces architects to fundamental concepts and techniques in statistics, providing essential tools for data analysis and interpretation in architectural and urban practice. Focusing on descriptive statistics and basic probability theory, the course equips students with the skills to analyze data, identify trends, and make informed, evidence-based decisions.

#### **ARC 4607 - Existing Areas Urban Design Studio (5 CH.)**

This studio course centers on the redevelopment of existing urban areas, including historic districts, city entrances, waterfronts, and city centers. Students will begin by defining project objectives and challenges, reviewing comparable projects, and conducting site analyses. They will then 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.

#### **ARC 4608 - Landscape Design Studio 2 (3 CH.)**

This course aims to equip students with a comprehensive understanding of how to achieve a sustainable landscape. Students will learn to make design decisions that account for user needs and environmental impacts. They will be encouraged to create innovative concepts and forms that support sustainability. The course will also focus on utilizing diverse strategies to ensure a sustainable landscape while analyzing the factors that shape and influence it. Students will effectively apply digital tools throughout the design process and actively contribute to addressing sustainability challenges in landscape design.

#### **ARC 4609 - Integrated Urban Design Studio 1 (2 CH.)**

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

#### **ARC 4610 - Urban Environmental Control (2 CH.)**

This course explores the critical role of environmental comfort in urban design, focusing on creating successful public spaces. It examines how factors such as sunlight, shade, temperature, humidity, precipitation, wind, and noise affect the usability and experience of urban environments. This course will analyze these elements to understand their impact on comfort and design effective urban spaces that enhance public well-being and satisfaction.

ARC 463# - Elective Course 2 (2 CH.)

Specified Below

#### **ARC 4610 - Urban Environmental Control (2 CH.)**

This course explores the critical role of environmental comfort in urban design, focusing on creating successful public spaces. It examines how factors such as sunlight, shade, temperature, humidity, precipitation, wind, and noise affect the usability and experience of urban environments. This course will analyze these elements to understand their impact on comfort and design effective urban spaces that enhance public well-being and satisfaction.

#### **ARC 4611 - Sustainable Urban Design (2 CH.)**

This course explores the principles and practices of sustainable urban design, focusing on creating environmentally responsible and resilient urban environments. Students will learn to integrate green infrastructure, energy-efficient systems, and sustainable resources into urban planning. The course equips students with the skills needed to design urban areas that balance ecological health, economic viability, and community well-being, preparing them to contribute to the development of sustainable and vibrant cities.

#### **BUS1099 - Professional Development Skills (2 CH.)**

يركز المقرر على تطوير مهارات الطلاب اللازمة لدخول سوق العمل بكفاءة، بما يشمل البحث عن الوظيفة، إعداد السيرة الذاتية، اجتياز المقابلات، والتخطيط المهني. كما يعزز مهارات التواصل والعمل الجماعي ويغرس القيم الأخلاقية في بيئة العمل.

#### **ARC 4613 - Cooperative Training (6 CH.)**

This course provides students with the opportunity to apply their theoretical knowledge in real-world urban design settings. It bridges academic learning and professional practice, enhancing students' skills and career readiness. Through hands-on experience, students explore career interests within the urban design field while adhering to the rules and regulations of the host firm. The department arranges training opportunities with various firms, though students may request training in specific institutions with prior supervisor approval. Student should pass 100 hrs. at least to attend this training

#### **ARC 4614 - Integrated Urban Design Studio 2 (5 CH.)**

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.

**ARC 4615 - Conservation of Heritage Sites (2 CH.)**

This course highlights the significance of urban heritage and provides a comprehensive overview of identification, classification, and documentation criteria for conservation. Students will learn to assess urban and environmental threats such as neglect, maintenance issues, and deterioration. The course covers principles and levels of conservation, including various restoration techniques, equipping students with the knowledge to preserve and restore valuable urban heritage effectively.

**ARC 4616 - Professional Practice of Urban Design (2 CH.)**

This course provides a comprehensive overview of the principles of professional urban practice in Saudi Arabia. It covers ethical standards, the Code of Conduct, and the legal frameworks governing the profession. Additionally, the course explores the planners' role and responsibilities, as well as essential professional skills such as resume preparation, portfolio development, interview techniques, and hiring processes. Students will be well-prepared for a responsible, competent, and effective career in urban design.

**ARC 4617 - Urban Mobility (2 CH.)**

This course examines the intricate relationship between transportation, land use, and urban form, exploring how these factors influence each other. Students will analyze how urban accessibility affects human development and learn about strategies to enhance accessibility and promote low-carbon mobility. The course also evaluates the conditions that contribute to livable neighborhoods and the effectiveness of green transportation policies in urban environments, equipping students with insights into sustainable urban design.

**ARC 464# - Elective Course 3 (2 CH.)**

Specified Below

**ARC 4618 - Streetscape (2 CH.)**

This course explores the design and development of streetscapes as essential elements of urban environments. Students will examine the role of streets in shaping public spaces, focusing on the integration of pedestrian pathways, landscaping, street furniture, and transportation infrastructure. The course emphasizes creating functional, aesthetically pleasing, and sustainable streetscapes that enhance urban life, improve mobility, and contribute to social interaction and environmental health in cities.

**ARC 4619 - Graduation Project (3 CH.)**

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. Urban Design Electives

**ARC 4621 - Temporary Urbanism (2 CH.)**

This course examines the global trend of temporary and tactical urbanism, focusing on the increased use of short-term events and temporary spaces. It provides a theoretical and critical analysis of this approach, highlighting its significance in cities like Makkah al-Mukarramah, where it is prevalent during Hajj in Mina, Muzdalefah, and Arafat. The course explores how these areas can be efficiently utilized outside pilgrimage periods, addressing both opportunities and challenges.

**ARC 4622 - Humanizing the Cities (2 CH.)**

This course explores strategies for designing urban environments that prioritize human experience and well-being. Students will examine how to create urban areas that foster social interaction, accessibility, and comfort while addressing issues like overcrowding and environmental stress. The course covers principles of urban design that enhance livability, such as inclusive public spaces, walkability, and community engagement. Students will explore solutions that make urban areas more responsive to human needs and improve overall quality of life.

**ARC 4623 - Floating Cities (2 CH.)**

This course delves into the concept of floating cities, examining their history, design, construction, and sustainability. Students will explore the technical, environmental, economic, and social dimensions of creating urban habitats on water. Key topics include addressing rising sea levels, overpopulation, and challenges related to energy, water supply, waste management, and environmental impact. The course features international examples, providing a comprehensive understanding of this innovative urban design concept.

**ARC 4624 - City Branding (2 CH.)**

This course explores the concept of city branding, focusing on how cities can develop a distinct identity to attract residents, tourists, and investors. Students will examine the strategies used to create a cohesive urban brand through architecture, culture, history, and economic development. Topics include branding techniques, stakeholder engagement, and the role of urban design in shaping a city's image. The course also analyzes successful global city branding case studies.

**ARC 4631 - Advanced studies in Landscape Architecture (2 CH.)**

This course delves into complex landscape architecture concepts, with a focus on sustainable design, ecological systems, and innovative techniques for large-scale projects. Students will explore advanced topics such as green infrastructure, ecological restoration, urban ecology, climate-responsive design, sustainable water management, and biodiversity in urban areas. The course also examines the relationship between landscape design and public health, energy-efficient strategies, cultural landscapes, and the use of innovative materials in landscape architecture.

**ARC 4632 - Cities Centers (2 CH.)**

This course explores the foundational theories of planning and developing city centers, with a focus on the challenges faced by urban centers globally and in Saudi cities. Students will examine key issues such as congestion, accessibility, and infrastructure, and study strategies to address these problems. The course covers both quantitative and qualitative survey methods, along with techniques

for redeveloping and revitalizing city centers to enhance their functionality and sustainability.

#### **ARC 4633 - Terminals Planning and Design (2 CH.)**

This course focuses on the planning and design of transportation terminals, including airports, seaports, rail stations, and bus terminals. It covers key principles for designing efficient, functional, and user-friendly terminals. Students will explore topics such as space planning, passenger flow management, safety, and integration with urban infrastructure. The course also addresses strategies for optimizing terminal capacity and operations, ensuring smooth transitions between different modes of transportation.

#### **ARC 4634 - Selected Topics in Urban Design (2 CH.)**

This course offers a seminar-style exploration of specialized urban design topics, with a syllabus that evolves annually to reflect current trends and issues. Students will engage in discussions on various subjects such as the impact of human settlements on urban ecosystems, perceptual boundaries within cities, waterfront development, and restorative city concepts. The course provides an opportunity to deepen understanding and complement other urban design studies through contemporary, relevant topics.

#### **ARC 4641 - Fundamentals of Real Estate Development (2 CH.)**

This course introduces the basic principles of real estate development, focusing on the fundamental processes of planning, financing, and managing development projects. Students will explore key topics such as site selection, market analysis, project feasibility, and zoning regulations. The course covers financial modeling, risk management, and the role of developers in shaping urban environments, providing a solid foundation for understanding real estate development dynamics.

#### **ARC 4642 - Urban Project Management (2 CH.)**

This course provides students with vital skills for effective urban design project management and encourages strategic thinking. It covers two key areas: the project life cycle phases, including initiation, planning, execution, monitoring and controlling, and completion; and the essential knowledge areas of project management such as scope, time, cost, risk, and quality management.

#### **ARC 4643 - Crowd Management (2 CH.)**

This course focuses on the principles and practices of crowd management, emphasizing the organized planning and direction necessary for large gatherings, such as the Hajj pilgrimage in Makkah. Students will explore definitions, concepts, and types of crowds, alongside crowd management strategies and international examples. The course provides an in-depth look at managing the safety and security of large groups, with a special focus on the unique challenges posed during Hajj.

#### **ARC 4644 - Multicriteria Assessment of Urban Development Projects (2 CH.)**

This course introduces students to the principles and processes of multicriteria impact assessment, focusing on evaluating short and long-term environmental consequences of proposed urban projects. Students will learn how to assess impacts on natural resources, biodiversity, air and water quality, and human health. The course covers methods for mitigating negative impacts and enhancing positive outcomes.

## **6. Urban Planning Track**

#### **ARC 4701 - New City Urban Planning Studio (5 CH.)**

This studio focuses on the planning of a new town. Students will carry out comprehensive demographic, economic, and environmental studies within the broader context. They will perform a detailed analysis of the given site, examining key factors that influence town planning. Based on their findings and exploration of planning alternatives, students will develop a strategic plan that includes land use, service distribution, and road network design, creating a sustainable and functional urban layout.

#### **ARC 4702 - Housing Planning Studio 1 (3 CH.)**

This studio introduces students to new neighborhood planning, focusing on neighborhood layout, and residential unit design. Students will analyze site conditions, including visual and environmental studies, densities, and real estate values. The project involves developing the planning concept, suggesting the neighborhood layout, and designing functional, flexible, and environmentally responsive residential units. The project includes 2-4 clusters with a population range of 3,000 to 6,000, emphasizing socio-economic and environmental aspects.

#### **ARC 4703 - Urban Planning Information Systems (2 CH.)**

This course introduces the fundamental principles of Geographic Information Systems (GIS), emphasizing its application in urban planning. Students will gain an understanding of GIS technology and its practical uses, including data entry, editing, and simple analysis. The course also covers data visualization techniques and map layout preparation, providing both theoretical knowledge and hands-on experience to support planning tasks in the profession.

#### **ARC 4704 - Urban Planning Theories (2 CH.)**

This course explores the major urban planning theories that emerged in the twentieth century and continues to influence contemporary planning practices. Students will engage with key theories such as Modernism, Garden City, Rational Planning, Advocacy Planning, and New Urbanism. The course also examines postmodern critiques and the impact of global trends on urban development. Through these frameworks, students will develop a deeper understanding of the evolution and future direction of urban planning.

#### **ARC 472# - Elective Course 1 (2 CH.)**

Specified Below

#### **ICC4202 - The Family in Islam (2 CH.)**

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#### **MTH1681 - Principles of Statistics for Architects (2 CH.)**

This course introduces architects to fundamental concepts and techniques in statistics, providing essential tools for data analysis and interpretation in architectural and urban practice. Focusing on

descriptive statistics and basic probability theory, the course equips students with the skills to analyze data, identify trends, and make informed, evidence-based decisions.

#### **ARC 4707 - Existing City Development Studio (5 CH.)**

This studio focuses on revitalizing and redeveloping small towns, particularly within Makkah province. Students will conduct in-depth demographic, economic, and environmental studies to understand the town's current status. Through SWOT analysis, students will establish a vision and objectives for the town's future. Based on these findings, they will develop a strategic plan addressing suggested land use, services, and road networks to promote sustainable revitalization.

#### **ARC 4708 - Housing Planning Studio 2 (3 CH.)**

This studio fosters both team and individual work while focusing on the development of housing within an existing urban context. The project begins with a comprehensive study of the current status, covering urban studies, economic activities, and demographic characteristics. The second phase involves a detailed site analysis, including environmental, visual studies and densities. In the third phase, students develop layout based on planning decisions and alternatives. In addition, they design residential units emphasizing functionality, flexibility, economic, and environmental aspects.

#### **ARC 4709 - Integrated Urban Planning Studio 1 (2 CH.)**

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.

#### **ARC 4710 - Advanced Urban Information Systems (2 CH.)**

This course builds on the foundational GIS knowledge acquired in previous courses, enhancing students' ability to apply GIS in urban and regional planning. It introduces Global Positioning Systems (GPS), advanced spatial analysis tools, and techniques for solving spatial problems and modeling urban phenomena. Students will explore network analysis, interpolation methods for estimating spatial data, and the basics of 3D GIS, focusing on their application in planning contexts.

#### **ARC 473# - Elective Course 2 (2 CH.)**

Specified Below

#### **ARC 4711 - Sustainable Cities (2 CH.)**

This course explores the principles and strategies for designing and developing sustainable cities. Students will examine urban systems that promote environmental resilience, social equity, and economic viability. Key topics include green infrastructure, renewable energy, sustainable transportation, water and waste management, and urban biodiversity. Through case studies, students will learn how to create urban environments that balance ecological health with the needs of growing populations.

#### **BUS1099 - Professional Development Skills (2 CH.)**

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#### **ARC 4713 - Cooperative Training (6 CH.)**

This course provides students with the opportunity to apply their theoretical knowledge in real-world urban planning settings. It bridges academic learning and professional practice, enhancing students' skills and career readiness. Through hands-on experience, students explore career interests within the urban planning field while adhering to the rules and regulations of the host firm. The department arranges training opportunities with various firms, though students may request training in specific institutions with prior supervisor approval. Student should pass 100 hrs. at least to attend this training

#### **ARC 4714 - Integrated Urban Planning Studio 2 (5 CH.)**

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.

#### **ARC 4715 - Urban Sociology and Population (2 CH.)**

This course introduces urban sociology and population studies through the sociospatial perspective, examining how social factors like gender, lifestyle, economics, and culture influence metropolitan development. It offers a concise history of urban life and an overview of urban social theory, highlighting the impact of culture on urban growth. The course also covers population dynamics, including fertility, family structures, health, aging, and mortality, providing a comprehensive framework for understanding urban environments.

#### **ARC 4716 - Professional Practice of Urban Planning (2 CH.)**

This course provides a comprehensive overview of the principles of professional urban practice in Saudi Arabia. It covers ethical standards, the Code of Conduct, and the legal frameworks governing the profession. Additionally, the course explores the planners' role and responsibilities, as well as essential professional skills such as resume preparation, portfolio development, interview techniques, and hiring processes. Students will be well-prepared for a responsible, competent, and effective career in urban planning.

#### **ARC 4717 - Planning of Urban Mobility (2 CH.)**

This course explores the complexities of urban mobility, focusing on key challenges and solutions for modern cities. Topics include the state of urban passenger transport, metro, light rail, and BRT systems, and the relationship between mobility and urban form. The course also examines equitable access, environmental impacts, and the economics and financing of urban mobility. Additionally, students will study the institutional and governance frameworks that shape urban transportation systems.

#### **ARC 474# - Elective Course 3 (2 CH.)**

Specified Below

### **ARC 4718 - Regional Planning (2 CH.)**

This course explores regional planning as a key spatial planning level in Saudi Arabia. It covers the historical evolution, definitions, and scope of regional planning, highlighting its role and contributions. Students will study methods and techniques of regional planning, including the process of regionalization, defining regions, and analyzing spatial structures. The course also compares regional planning practices with international perspectives, providing a comprehensive understanding of regional planning's role in Saudi Arabia.

### **ARC 4719 - Graduation Project (3 CH.)**

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.

## **7. Urban Planning Electives**

### **ARC 4721 - Cities and Climate Change (2 CH.)**

This course explores the impacts of climate change on cities, examining a range of scenarios from moderate to extreme. Students will study the consequences of these impacts on urban environments and the challenges they present. The course emphasizes urban planning policy options to mitigate and adapt to climate change, with a focus on transforming urban form to enhance resilience, reduce emissions, and improve the sustainability of city structures.

### **ARC 4722 - Urban Conservation and Renewal (2 CH.)**

This course provides a comprehensive exploration of urban conservation processes and their role in contemporary urban regeneration. Students will study the integration of conservation with modern renewal practices, focusing on social and economic aspects. Key topics include conservation techniques, policies, and the importance of community participation in urban renewal projects. Students will gain insights into balancing preservation with urban development in the 21st century.

### **ARC 4723 - Urban Development in Saudi Arabia (2 CH.)**

This course examines the historical evolution of urban development in Saudi Arabia, highlighting the government's role in fostering urbanization and establishing a robust physical infrastructure. Students will explore the transformative vision under Saudi Vision 2030, focusing on how cities are becoming hubs for innovative interventions and experimentation. The course provides a comprehensive understanding of both past urban growth and contemporary strategies shaping the future of Saudi cities.

### **ARC 4724 - Sustainable Urban Tourism (2 CH.)**

This course explores the principles and practices of sustainable tourism in urban settings. It delves into the challenges and opportunities of balancing economic growth, social equity, and environmental protection in cities. Students will learn about sustainable tourism planning, marketing, and management. They will also gain insights into the role of technology, innovation, and community engagement in creating sustainable urban tourism destinations

### **ARC 4731 - Smart Cities (2 CH.)**

This course explores the fundamentals of smart cities, focusing on how technological advancements are transforming urban life. It covers key aspects such as smart infrastructure, mobility, and buildings. Students will study current smart city projects and innovations, gaining insights into the strategies that can be used to transition existing cities into smart cities.

### **ARC 4732 - Technology and Urban Change (2 CH.)**

This course examines the impact of technological advancements during the three Industrial Revolutions on urban development. It explores technological achievements, their social and economic effects, their influence on urban planning and systems, and industrial-age cities' challenges. Students will learn how technology reshaped cities and its relevance to modern urban development

### **ARC 4733 - Future Urbanism (2 CH.)**

This course explores the evolving concepts of future cities in response to the growing threats facing metropolitan life. Students will investigate imagined cityscapes—submerged, floating, flying, vertical, underground, and salvaged—through the lenses of architecture, fiction, film, and visual art. The course encourages students to use imagination as a tool to bridge the gap between speculative urban visions and real-world solutions, envisioning sustainable and resilient futures for humanity in urban environments.

### **ARC 4734 - Selected Topics in Urban and Regional Planning (2 CH.)**

This course offers a seminar-style learning environment focused on specialized topics in urban planning, tailored to senior students. The syllabus evolves yearly, reflecting contemporary issues and advancements in the field. Students will engage in in-depth discussions and research on advanced urban planning topics, complementing their prior coursework. The course encourages critical thinking, problem-solving, and the application of urban planning concepts to real-world challenges.

### **ARC 4741 - Urban Risk Management (2 CH.)**

This course equips students with strategies and tools to identify, assess, and mitigate risks in urban settings, addressing challenges from natural disasters, technological failures, etc. It covers urban resilience, disaster risk reduction, climate adaptation, and emergency planning, with topics like hazard mapping, risk assessment, crisis communication, and governance. In addition, case studies highlight global best practices

### **ARC 4742 - Urban Governance (2 CH.)**

This course explores the political, socio-economic, and administrative aspects of local government and city management. It introduces key management concepts, city government functions, and their interactions with higher levels of government. Emphasis is placed on aligning urban needs with residents' interests, addressing modern city management issues such as urban equality, public participation, socio-economic dynamics, and residents' sense of security. The course provides a comprehensive understanding of effective city management strategies.

### **ARC 4743 - Urban Economies (2 CH.)**

This course delves into the strategies used by policymakers and planners to foster healthy urban economies. It covers the role of economic development specialists and explores a range of tools for

urban economic development and redevelopment. Key topics include labor force issues, housing, transportation, and the impact of technology. The course also examines new strategies in urban economics and features international and Saudi case studies for practical insights.

**ARC 4744 - Urban Indicators (2 CH.)**

This course focuses on understanding and applying urban indicators, which measure various aspects of urban activities. Emphasizing the twenty key areas of the Habitat Agenda, the course covers shelter, social, environmental, and governance indicators at the city level. Students will learn to analyze and interpret quantitative and qualitative data, gaining insights into how urban indicators are used to assess and improve city performance in these critical areas.



# Registration and Regulations

# Registration

**Prospective students applying to the bachelor's degree programs in universities are expected to have the following qualifications:**

- Be a Saudi or the child of a Saudi mother. (Non-Saudis can apply through scholarship programs.)
- The student should have obtained a general high school certificate or equivalent from within or outside the Kingdom of Saudi Arabia.
- His high school certificate or equivalent should not be over five years old. The university council may make some exceptions if convincing reasons are provided.
- The student should pass the required admission tests conducted by the National Center for Assessment.
- The student should pass any test/interview required by the department.
- The student should not have been dismissed from any other university for disciplinary or academic reasons. If it becomes clear after his admission that he has been previously dismissed from another university, his acceptance shall be deemed canceled from the day of his admission.
- Students applying for the bachelor's program are not required to have any previous work experience or industrial placements.

# Attendance

Attendance is defined by physical attendance at lectures and/or participation in academic activities such as taking assignments and exams or participating in a class work group.

Each department member will determine the total number of absences allowed before absences affect student participation and final course grade. This number of total absences allowed includes absences due to illness. The specific policy of the department member will be announced at the beginning of each course and included in the course curriculum. A student who, without a valid reason, remains absent from campus or the classroom for an excessive period during a semester can be withdrawn from the University. To be eligible to appear on the final exam, a student must have a minimum attendance of 75% in semester classes.

## Withdrawal from a Course

Students can change their course enrolment without penalty until the published deadline for changing the course (add/drop) online or by completing the course change request form and obtaining the signature of their academic advisor and professors in the respective courses. Students may voluntarily withdraw from the course until the published withdrawal deadline if this does not affect their full-time status. A student withdrawing from the course will receive a (W) on his transcript, which will not affect the average grades. Accordingly;

1. A student who adheres to the plan is not entitled to withdraw from any course.
2. The course from which the student wants to withdraw should not be equal in level or less than the student's level.
3. If a compelling excuse requires withdrawal, the student must submit the course withdrawal to the Department, and the Department Chair will explain the circumstances he is going through. If the department approves the excuse submitted by the student, the Department chair directs it to the college coordinator, explaining the reasons for withdrawal.
4. We would also like to note the need to commit to attending all lectures to ensure that the withdrawal process from a course is completed. Not attending lectures is not an excuse to withdraw from a course.
5. In the event of the withdrawal process, the student will be assigned a grade of (W) in the student's academic record. This grade is not counted in the GPA.

# Regulations of Exams

- The student must come to the examination room at least five minutes before the start of the exam.
- Students are not allowed to take the exam without a university card.
- The student cannot take his examination in a room or seat other than the one assigned.
- The student must write their name and university number as stated on the university card on the answer sheet and the question sheet.
- The student may not write anything on the question paper at risk of being out of the examination room.
- Students may not exchange their examination papers after distributing them.
- It is forbidden to write without a blue pen. It is prohibited to use the correction pen, and it is not permitted to write with two different pens unless the ink runs out and with the knowledge of the chairman of the examination hall. It is allowed for pencil only for graphs, illustrations, and engineering drawings.
- It is forbidden for the student to bring books, documents, or manuscripts into the examination hall, even if they are unrelated to the exam subject.
- The student is not allowed to use the dictionaries and references except with the permission of the faculty council, and the course professor, and they may not be exchanged.
- The student cannot enter calculators except with the permission of the faculty council and the course professor.
- Using speaking dictionaries and Programmed calculators into the examination room is forbidden.

# Academic Advising

# Academic Advising

Academic Advising is considered one of the most significant orientation providers needed by students during university education. It aims to support and advise students to benefit from their self-abilities, develop their skills and encourage them to achieve academic distinction and innovation. In addition, the advising process helps students to complete study and graduate within the specified academic years. At this stage, students will be qualified with scientific experiences and practical skills to be good outputs for the labor market. The academic advising process mentors students to achieve the best results. It also helps them adapt to the university environment and seize available opportunities. In this context, all staff members should be responsible for academic advising. A university professor is regarded as his/her students' mentor, offering them help and advice. The professor should also alert students to mistakes and problems they should avoid in their educational path. This should take place even when he/she is not the main mentor designated by the concerned department on a regular basis. Therefore, advising is the responsibility of all staff members.

# The academic advisor

The academic advisor is the person who mentors the student during his study, helping him to overcome difficulties and problems he may face. The responsibilities of the academic advisor are as follows:

- Educating the student about the rights and duties.
- Preparing students to familiarize themselves with the university study system.
- Providing students with correct information, educational policies and study programs.
- Enhancing academic achievement of students, raising their abilities and overcoming the obstacles they face during their studies.
- Alerting students of the academic failure problem and the method to avoid it.
- Providing advice and assistance to students facing academic problems.
- Guiding, taking care of and following up failing students in order to raise their academic level.
- Paying attention to, motivating and spreading the innovations of excellent and talented students.

# Teaching Staff

# Teaching Staff



**Abdulhafiz Ahmad  
Mohammad Alwafi**



**Abdullah Saeed Eddah Karban**



**Abdullah Abdulhameed  
Abdullah Bagasi**



**Abdulrahman Abdulaziz  
Mohammed Majrashi**



**Adel Mohammad Ahmad  
Binyaseen**



**Adnan Yahya Abdullah  
Alshahrani**



**Ahmed Saleh Ahmed Aljuhani**



**Ali Saleh Ali Alzahrani**



**Badr Mohammed A Alsolami**



**Ebaa Khalid Ibrahim Khan**



**Ehab Farouk Mohamed El Said  
Rached**



**Fahmi Foud Ahmed Bahmdan**



# Teaching Staff



**Fares Saad M Al-Saygh**



**Husam Ahmed Kheder Murad**



**Ibraheem N A Al Bukhari**



**Khalid Abdulrauof  
Abdulrahim Mirza**



**Lewaa Mohammad Ahmed  
Kabli**



**Mohamed Wahba Ibrahim  
Khalil**



**Mohamed Atef Elhamy Kamel**



**Mohammad Abdullah M  
Almahdi**



**Mohammad Abdulwahab M  
Telmesani**



**Mohammad Altaher  
Mohammad H A Aljifri**



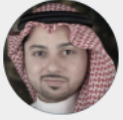
**Mohammed Dakhilallah Saad  
Alharthi**



**Mohanad Ahmad Saddiq  
Alfelali**



# Teaching Staff



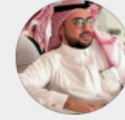
**Mohammad Abdulwahab M  
Telmesani**



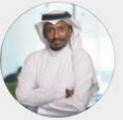
**Mohammad Altaher  
Mohammad H A Aljifri**



**Mohammed Dakhilallah Saad  
Alharthi**



**Mohanad Ahmad Saddiq  
Alfelali**



**Wadia Ali Husain Albarqawi**



**Wajdy Sadagh A Qattan**



**Yahya Muhammad A Nabhan**



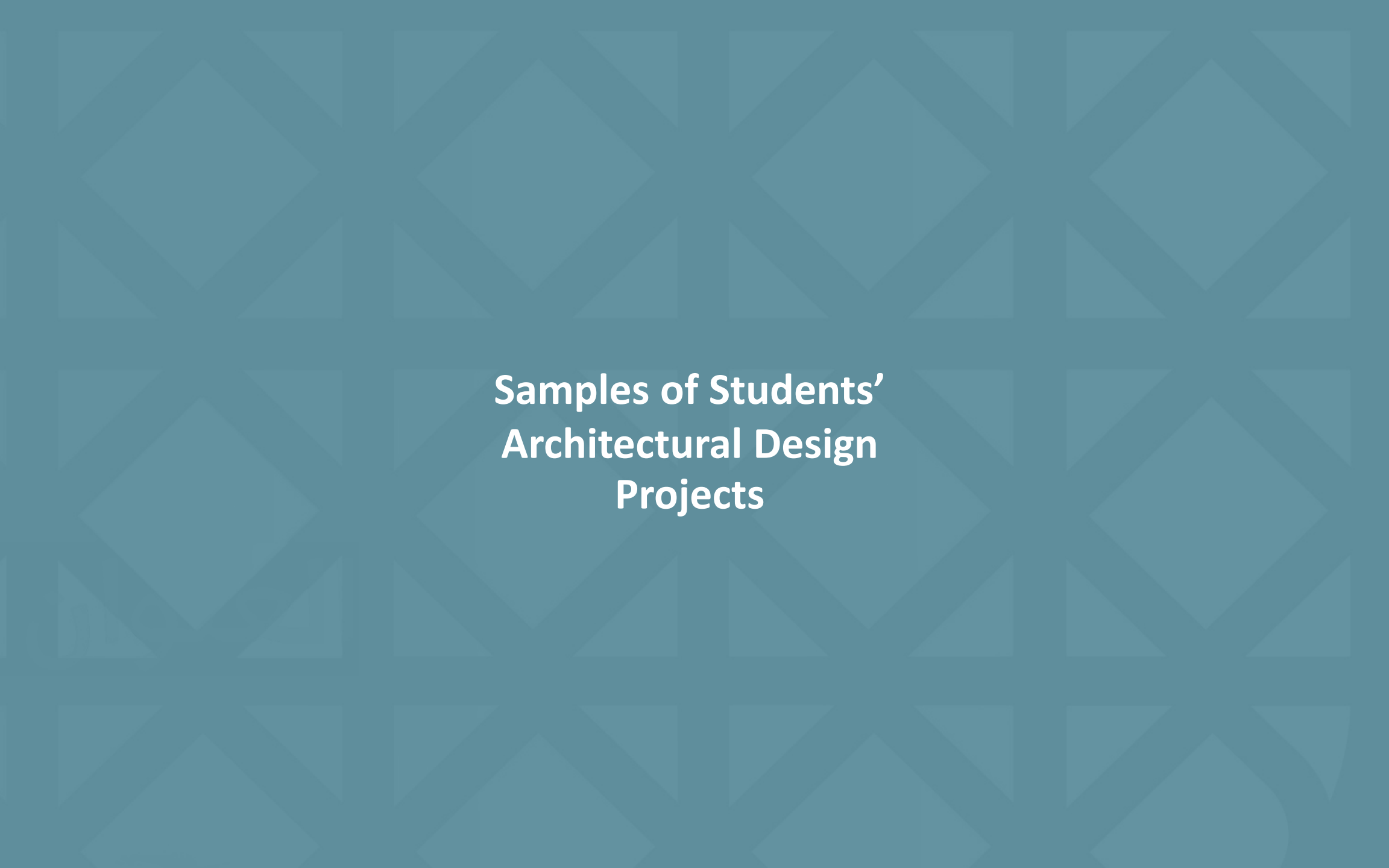
**Younes Hussain Ahmed  
Alkhallaqi**



# Teaching Staff

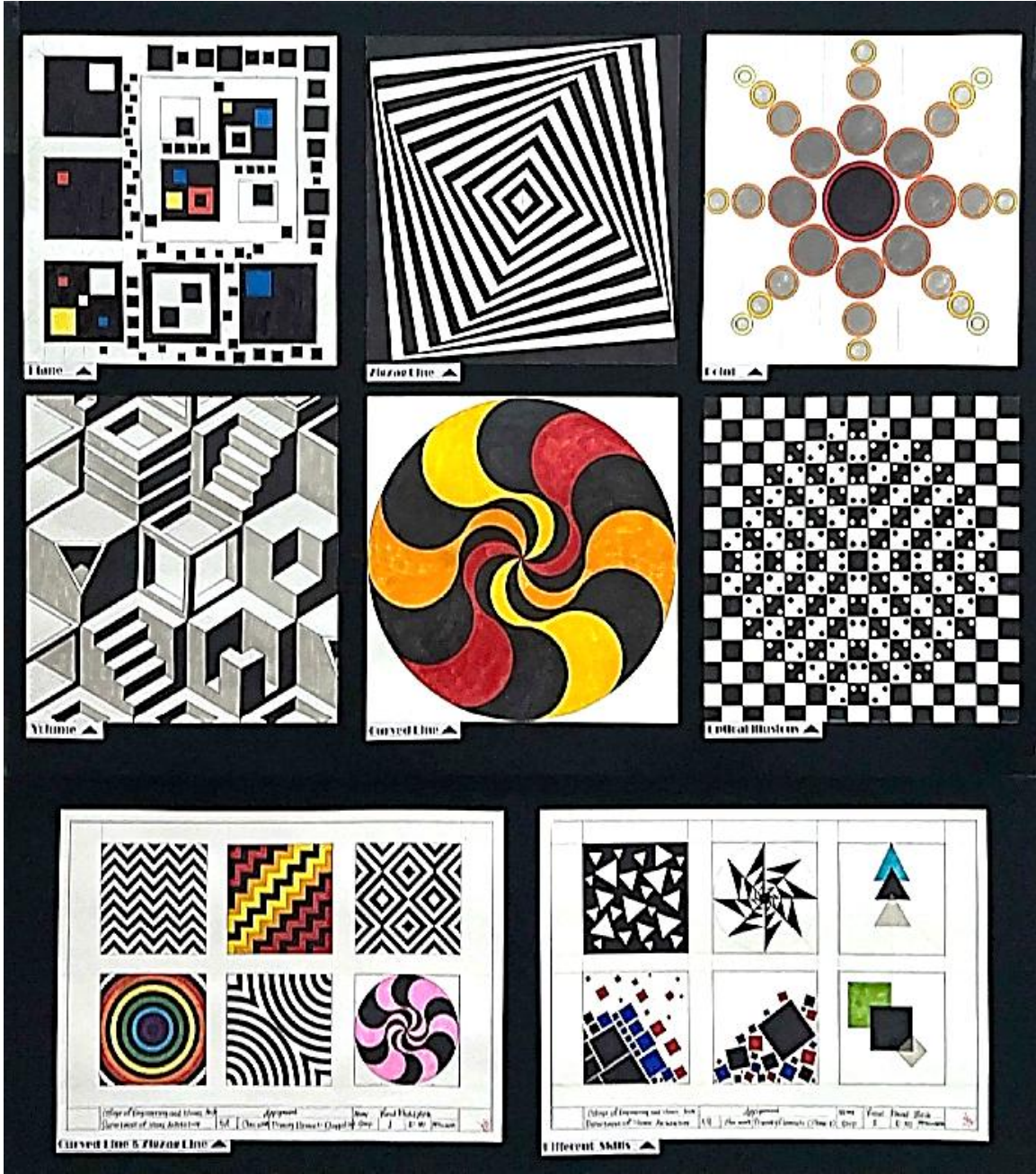
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Abdullah Saeed Eddah Karban	askarban@uqu.edu.sa
Abdullah Abdulhameed Abdullah Bagasi	aabagasi@uqu.edu.sa
Abdulrahman Abdulaziz M Majrashi	aamajrashi@uqu.edu.sa
Adel Mohammad Ahmad Binyaseen	ambinyaseen@uqu.edu.sa
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Khalid Abdulraouf Abdulrahim Mirza	kamirza@uqu.edu.sa

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Yahya Muhammad A Nabhan	ymnbhan@uqu.edu.sa
Younes Hussain Ahmed Alkhallaqi	ykhallaqi@uqu.edu.sa



**Samples of Students'  
Architectural Design  
Projects**

Architectural Formation Principles Studio





Straight Line ▲



Zigzag Line ▲



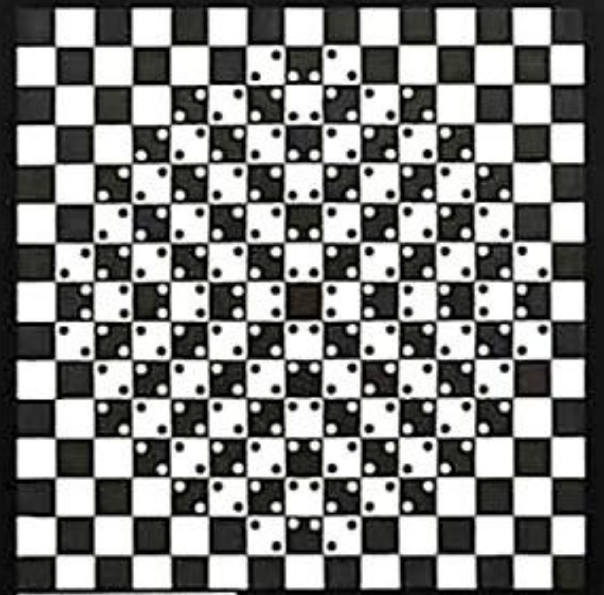
Curved Line ▲



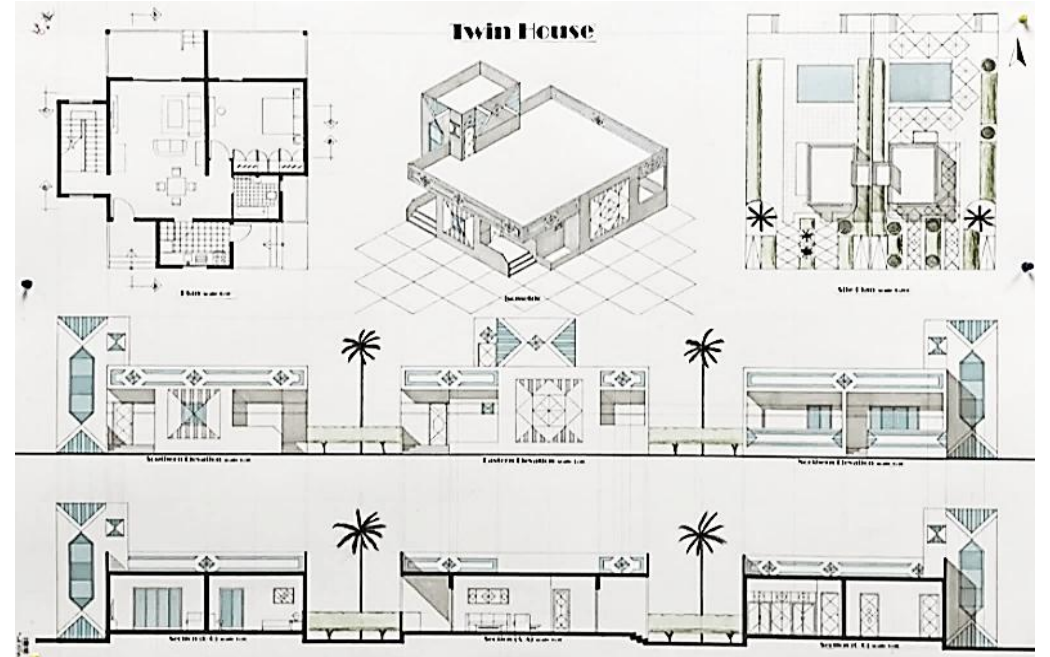
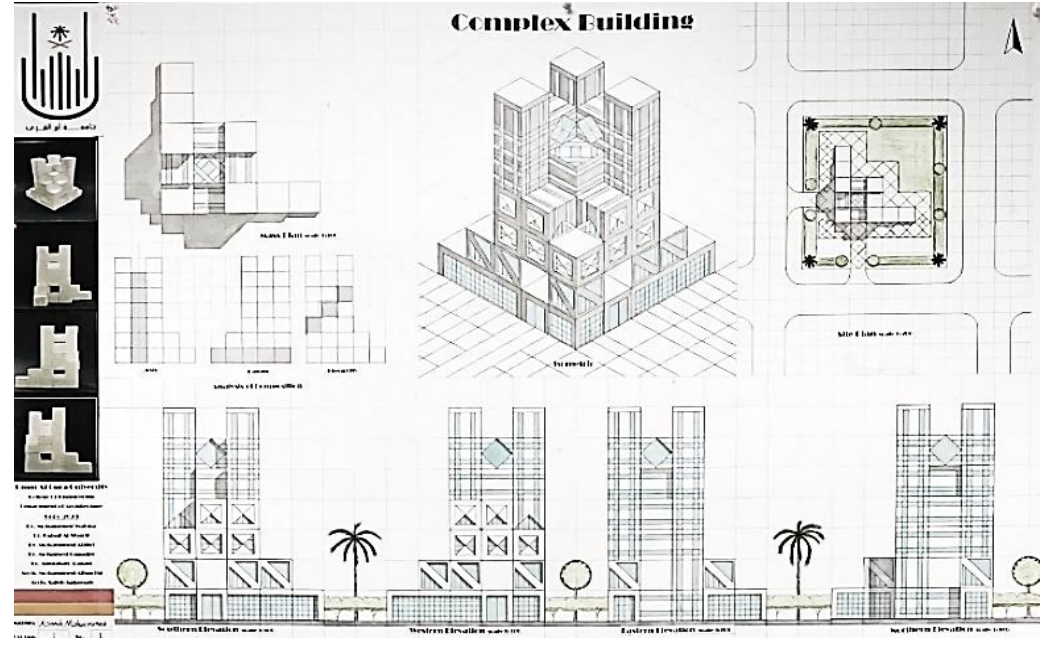
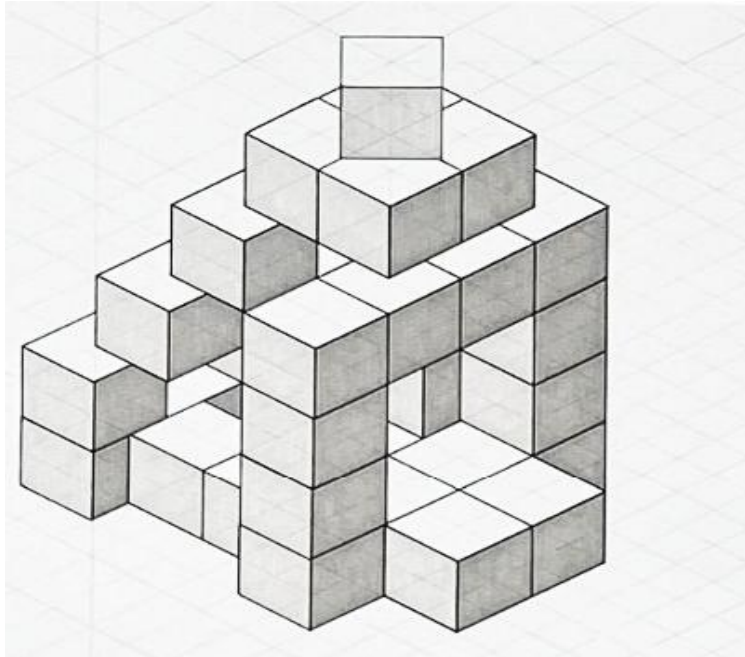
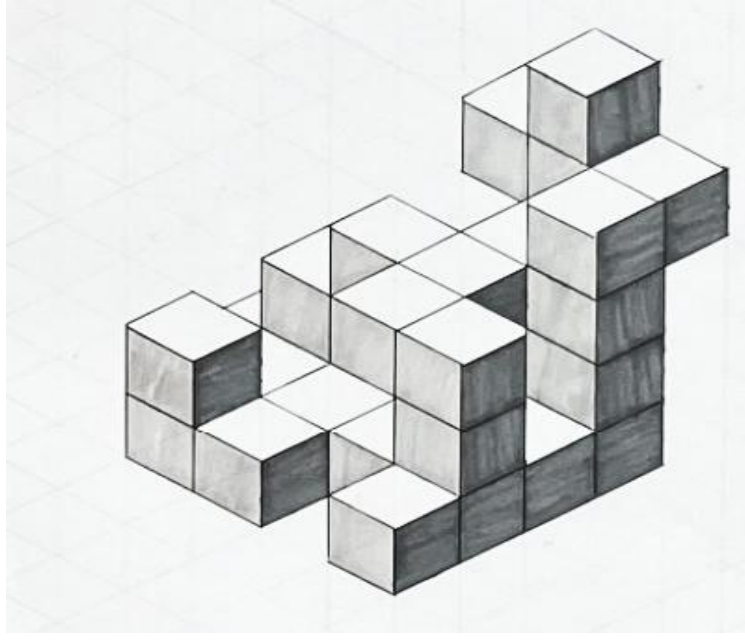
Optical Illusions ▲

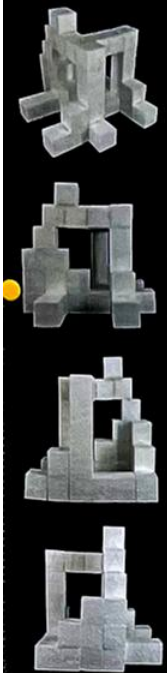


Volume ▲



Optical Illusions ▲

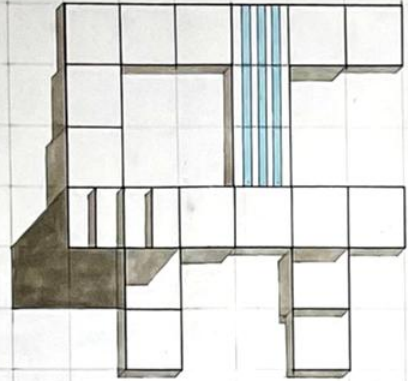




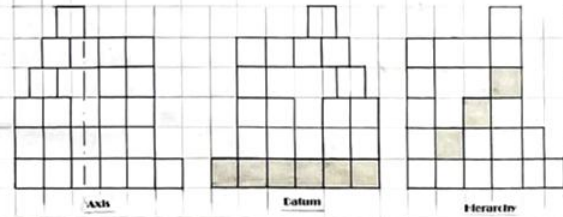
Umm Al-Qura University  
 College of Engineering  
 Department of Architecture  
 1445/2024  
 Dr. Mohammed Wathba  
 Dr. Faisal Al-Sharif  
 Dr. Mohammed Al-Hafid  
 Dr. Mohamed Elmaghrabi  
 Dr. Abdullahi Eneasi  
 Dr. Fares Al-Sneath  
 Arch. Saleh Salamah

Name:   
 Group: 1 No. 5

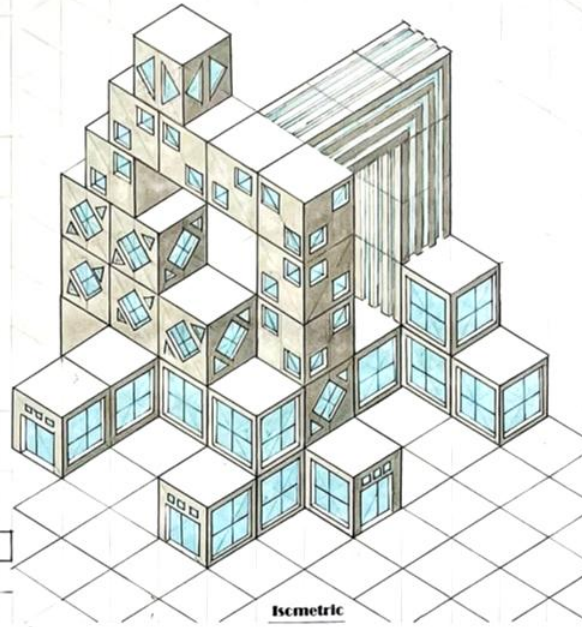
# Residential building



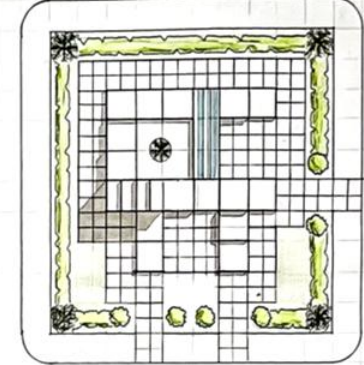
Mass Plan scale 1:100



Analysis of Composition



Isometric



Site Plan scale 1:400

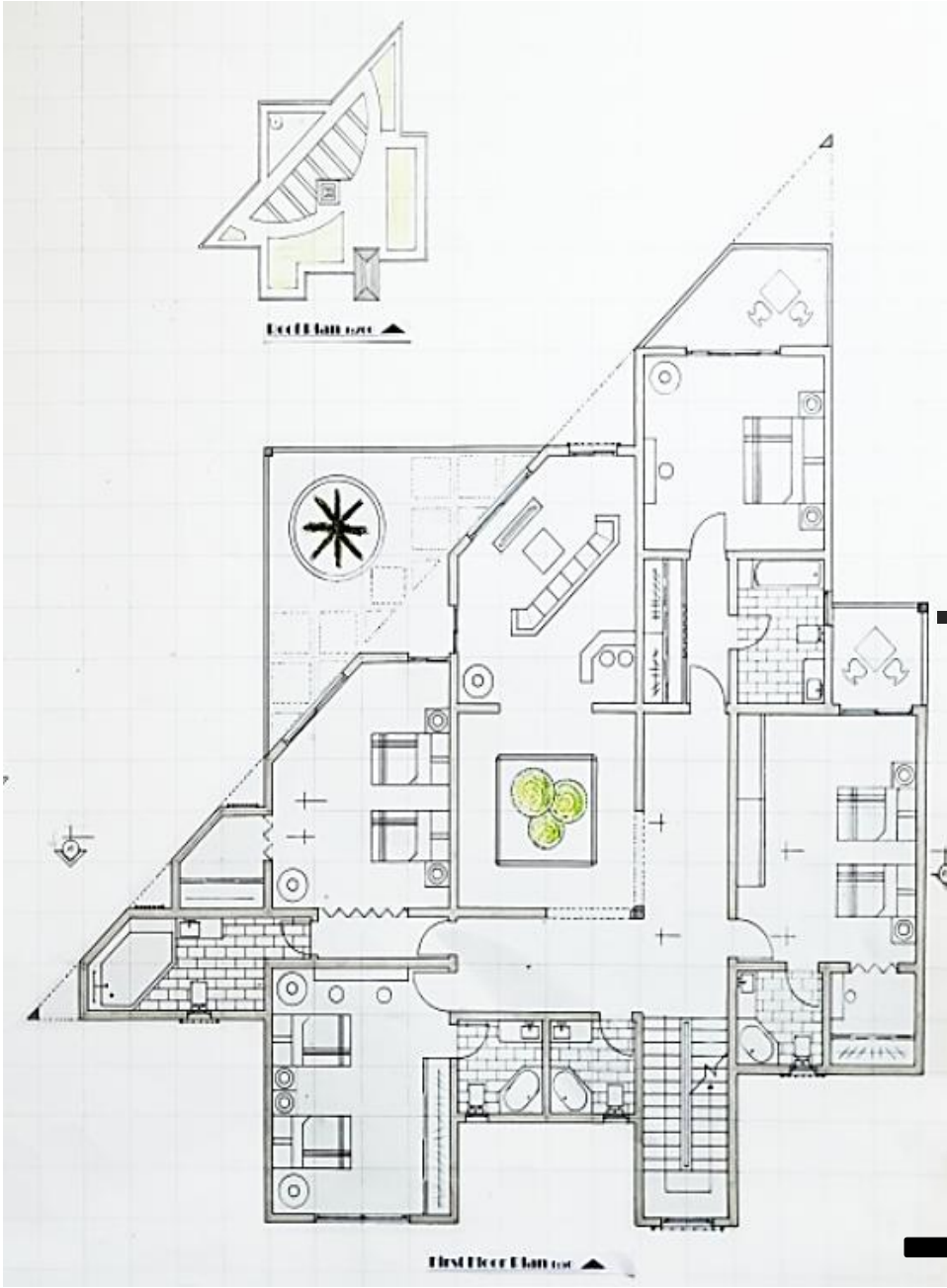


Southern Elevation scale 1:100

Western Elevation scale 1:100

Eastern Elevation scale 1:100

Northern Elevation scale 1:100



# Housing Unit Obhur Bay - Jeddah





Department of Architecture  
Design Studio 2 - (Second Semster, 1445)

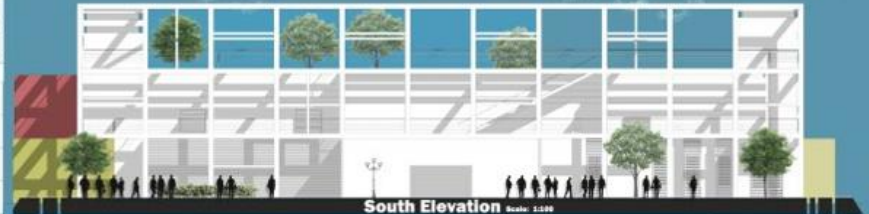
# INTERNATIONAL PRIMARY SCHOOL JEDDAH

Designed By: Ahmed Khalid Bajuayfir



Simplicity is all that attracts the child and I used the well known and simple math symbols for the child to understand in a simple way and they were used as part of the facade design.

Using primary colours in the formation of the school's facade.

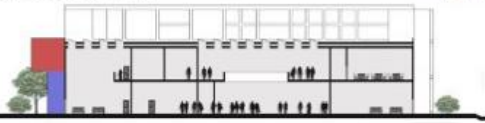


- 1. Classroom
- 2. Laboratory
- 3. Art room
- 4. PT room
- 5. Suits
- 6. Multipurpose hall
- 7. Library
- 8. Teachers room
- 9. Admin room
- 10. Meeting
- 11. Court
- 12. Football field
- 13. Entrance

First Floor Plan  
Scale: 1:200



Section A-A  
Scale 1:200

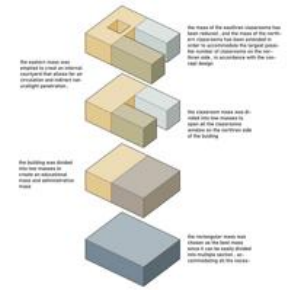




THE COMMUNICATION TOWER HAS BEEN REDESIGNED TO ALIGN WITH THE BUILDING'S DESIGN AND SERVE AS A LAND MARK FOR THE PROJECT



Site plan  
scale 1:500

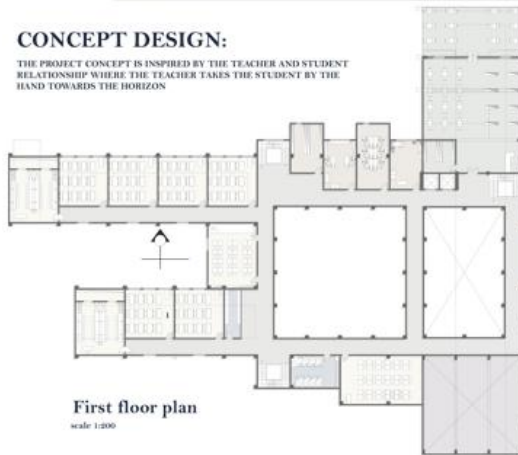


**CONCEPT DESIGN:**

THE PROJECT CONCEPT IS INSPIRED BY THE TEACHER AND STUDENT RELATIONSHIP WHERE THE TEACHER TAKES THE STUDENT BY THE HAND TOWARDS THE HORIZON

**KEY :**

- 1- CLASS
- 2- LAB
- 3- MANAGEMENT
- 4- CLING
- 5- TEACHERS ROOM
- 6- QUALITY
- 7- STUDENT ADVISOR
- 8- DRAWING STUDIO
- 9- STUDENT CANTEN
- 10- ENTRANCE
- 11- COMPUTER LAB
- 12- CAFE



**LOCATION :**

THE PROJECT SITE IS LOCATED IN THE CITY OF JEDDAH IN AL-REHAB NEIGHBORHOOD IN THE NORTHEAST OF THE CITY

## Important Links

[Deanship of Admission & Registration Services](#)

[Admission Guide for UQU](#)

[Unified University Admission Portal](#)

[Regulations for Undergraduate Study and Examinations](#)

[The Executive Regulations of UQU](#)

[Deanship of Students Affairs Services](#)

[Student Rights Regulations at UQU](#)

[Rules of Student Conduct and Discipline](#)

[Rewards Department](#)

[The Student Fund](#)

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College of  
**Engineering and Architecture**

Department of  
**Architecture**