

DEPARTMENT OF ARCHITECTURE

ARCH - Y

BUILT TO INSPIRE

Showcasing the next generation of architectural thinkers and dreamers at Al Yamamah University.

COLLEGE OF ENGINEERING
AND ARCHITECTURE

2025
Issue 4



Done By: Mrs. Esraa Samman

Mrs. Lara Rahim

Mrs. Mahasen Qahwaji

MAGAZINE CONTENT



The Architecture Department Magazine highlights the creativity, innovation, and accomplishments of students, faculty, and alumni.

It captures the dynamic spirit of architectural education through featured projects, research, and discussions that shape the future of the profession.

- About us
- Our team
- Dean's word
- Chairwoman's word
- Program Information
- Department Events
- Student's Work
- Faculty's Work



ABOUT OUR **MISSION**



To provide an outstanding education and innovative scientific research to enhance the field of Engineering and Architecture in the region



ABOUT OUR **VISION**



To be an educational icon for Engineering and Architecture in KSA and neighboring countries.

ABOUT US

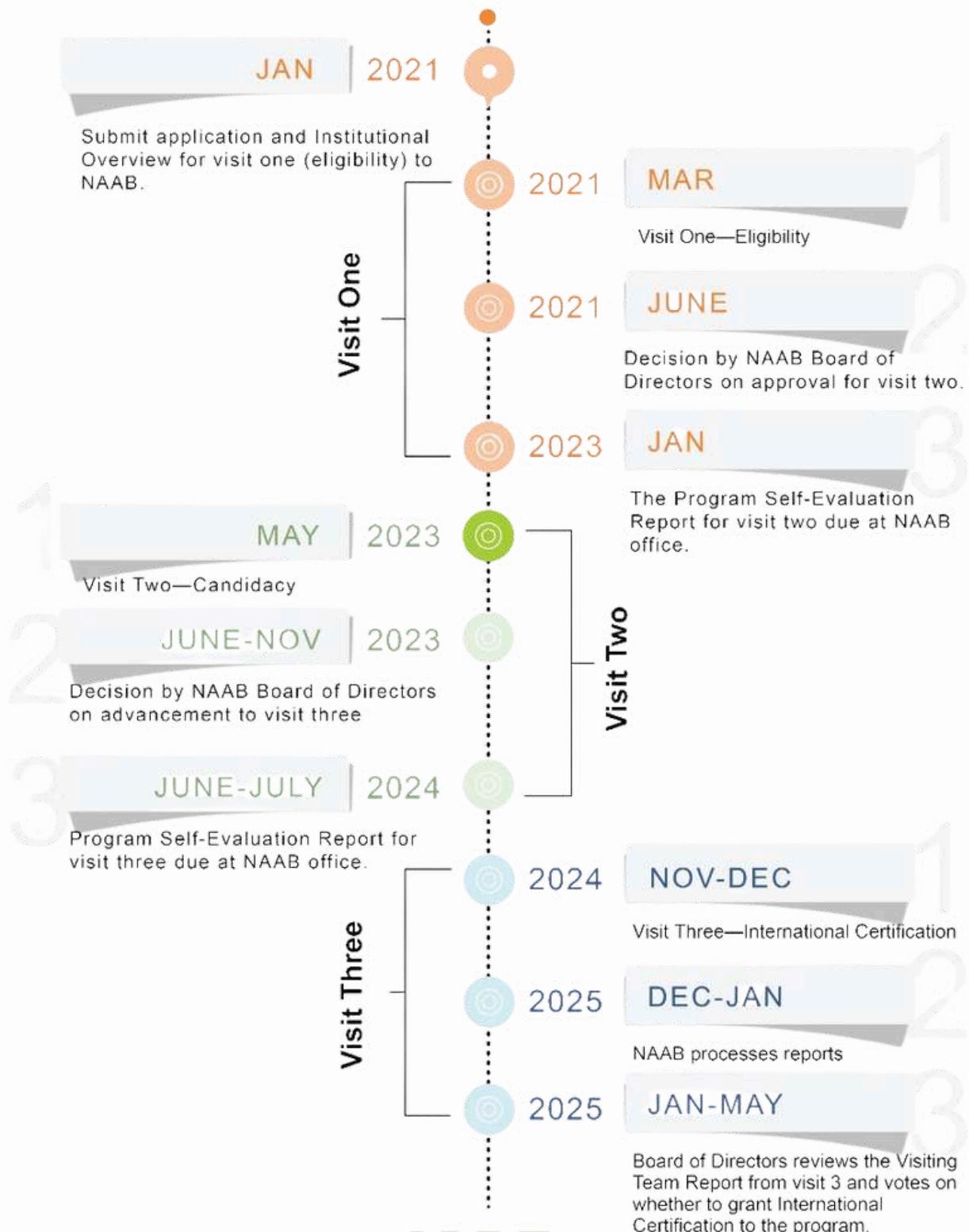
College of Engineering and Architecture (CoEA) offers a bachelor degrees in engineering and architecture with major options, in the area of Architecture, Software Engineering Network Engineering & Security, and Industrial Engineering.



NAAB

- We are in the process of pursuing the International Certification designation from the National Architectural Accreditation Board for the following professional degree program: Bachelor of Architecture**

NAAB CERTIFICATION TIMELINE



STATISTICS

11,200 SAR

Average of Salary for the first job.



85%

Get a Job offer after their CO-OP training in the same place.



93%

Of Graduate students receive a job offer after 6 months of their graduation.



2
Offers

Average number of offers graduate student receive after graduation within 3 months.



98%

Line Managers are happy with Al Yamamah's graduate performance.

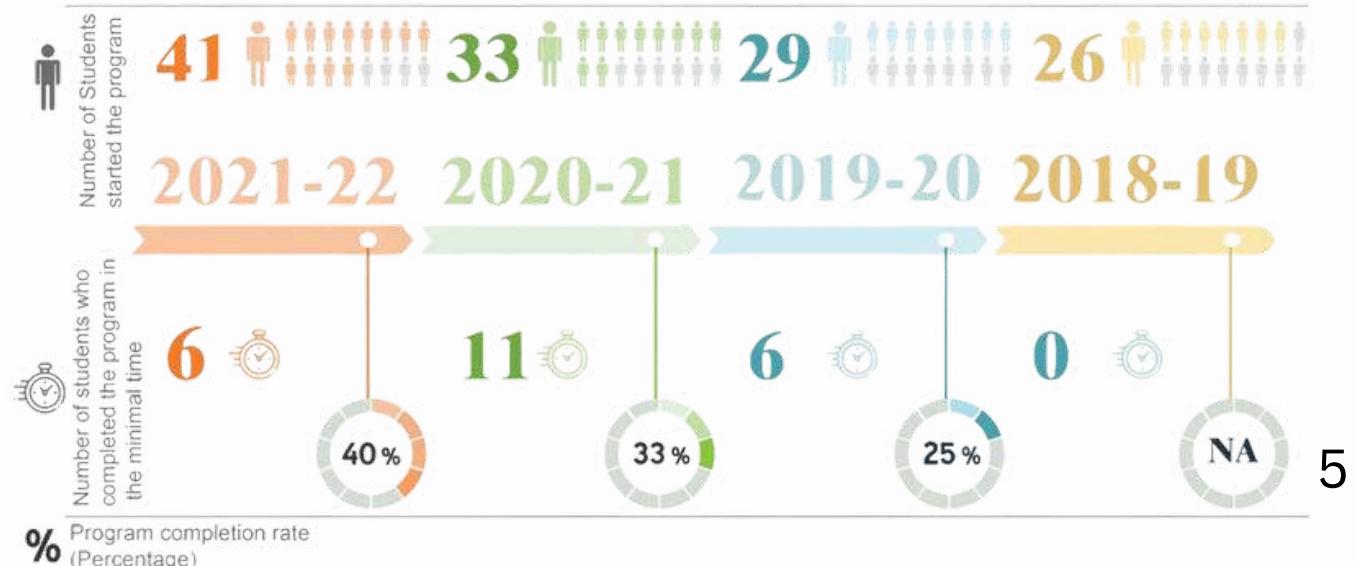
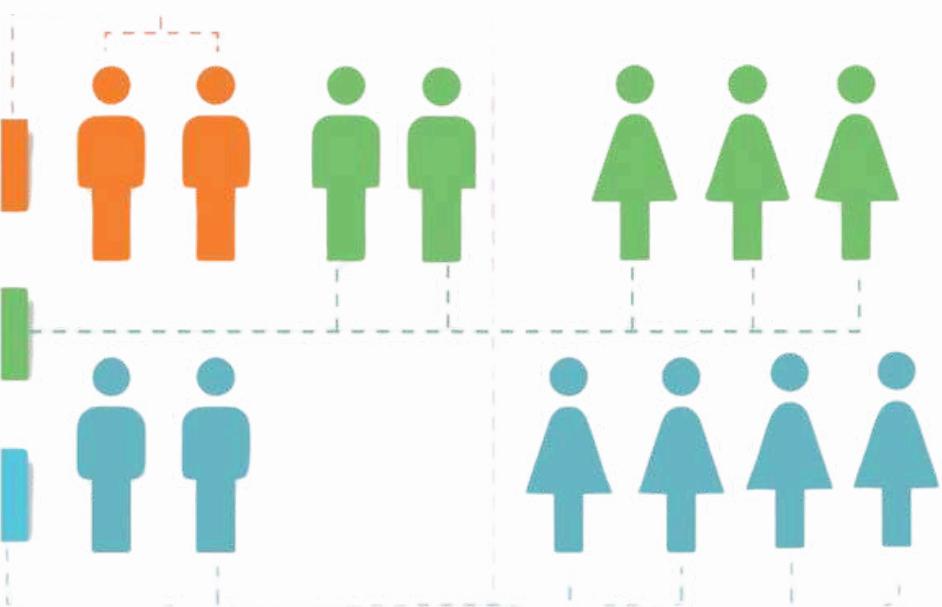


2
Years

Average of time - Graduate gets his/her first promotion.



Associate Professor





13
**FACULTY
MEMBERS**

LEADING WITH KNOWLEDGE & CREATIVITY

Our Architecture Department is proud to be home to a diverse and dedicated team of educators, designers, and researchers. Each faculty member brings a unique blend of academic excellence, professional experience, and a shared passion for shaping the next generation of architects. Their commitment to innovation, mentorship, and architectural exploration is the foundation of our department's strength and success.

MEET OUR FACULTY

2025



DALIA ABDELFATTAH

VICE DEAN OF COLLEGE OF
ENGINEERING / ASSISTANT
PROFESSOR OF ARCHITECTURE



ANWAR IBRAHIM

CHAIRMAN / ASSOCIATE
PROFESSOR OF ARCHITECTURE



MAJDI ALKHRESHEH

ASSISTANT PROFESSOR
OF ARCHITECTURE



IBRAHIM ABDELHADY

ASSISTANT PROFESSOR
OF ARCHITECTURE



MAYAS AHMAD TAHIA

ASSISTANT PROFESSOR
OF ARCHITECTURE



RAHMA DOHEIM

ASSISTANT PROFESSOR
OF ARCHITECTURE



LARA RAHIM

LECTURER OF
ARCHITECTURE



ESRAA SAMMAN

LECTURER OF
ARCHITECTURE



MAHASEN ALQAHWAJI

LECTURER OF
ARCHITECTURE



NOOR TAYEH

LECTURER OF
ARCHITECTURE



ABDULLAH ELSHAFIE

LECTURER OF
ARCHITECTURE



ANAS HUSSEIN

LECTURER OF
ARCHITECTURE



SARA ALANSARY

LECTURER OF
ARCHITECTURE

DEAN'S WORD

DR. HESSAH ALSALAMAH

Committed to Academic Excellence and Innovation



 @alyamamah_uni  AlYamamah_University  info@yu.edu.sa  yu.edu.sa

At the heart of our Architecture Department is a vision driven by excellence, creativity, and impact. Under the leadership of our Dean, we continue to grow as a vibrant academic community that empowers students to think critically, design responsibly, and lead with purpose. The Dean's unwavering commitment to academic advancement, interdisciplinary collaboration, and fostering innovation has positioned our department as a center for architectural thought and practice. Through continued support and guidance, we aim to shape not only skilled architects but thoughtful contributors to the built environment.

MESSAGE FROM THE DEAN

Our College has come a long way since its establishment in 2014. Today, the College of Engineering and Architecture is comprised of three departments: Department of Architecture, Department of Computer Engineering and the recently established Department of Industrial Engineering. These departments offer four accredited B.Sc. programs: Architecture, Network Engineering and Security, Software Engineering, and Industrial Engineering. Our curricula for all programs combine a strong theoretical background with hands-on experience in excellent labs and most importantly, we emphasize close interaction with the outstanding faculty to create an atmosphere truly conducive to learning.

The College is also very active in offering short courses, workshops and seminars, which provide ample avenues to disseminate engineering knowledge to the local, regional and international community. Furthermore, the College organizes international conferences in various engineering fields, which attracts international researchers and provides them with a conducive environment in which knowledge, research findings can be shared, and new ideas can be discussed, hence promoting and strengthening a knowledge-based society.

FROM VISION TO LEADERSHIP

DR. DALIA ABDELFATTAH APPOINTED VICE DEAN

We extend our heartfelt congratulations to Dr. Dalia Abdelfattah on her appointment as Vice Dean. Formerly the Chair of the Architecture Department, Dr. Dalia has been a driving force behind academic excellence and departmental growth. Her promotion is a testament to her leadership, commitment, and unwavering dedication to student success and institutional development. We are confident she will bring the same passion and innovation to her new role.



VICE DEAN'S WORD

DR.DALIA ABDELFATAH

Under the esteemed visionary leadership of Al Yamamah University, College of Engineering, our Architecture Department continues its fruitful growth. The commitment to academic excellence inspires innovation and creativity in our students. By fostering a dynamic learning environment, the architecture department empowers future architects to shape sustainable and impactful designs.

The College of Engineering's strategic guidance ensures our program remains at the forefront of architectural education. We celebrate their dedication in driving our mission forward. This annual magazine serves as a distinguished platform to showcase the culmination of our students' efforts, presenting a vibrant spectrum of design concepts and dynamic ideas. Each project reflects a comprehensive journey of intellectual inquiry between theory and practical application.

The college supportive environment empowers both faculty and students to achieve new levels of professional and academic attainment. The students' outcomes reflect their passion and ingenuity that define Al Yamamah's architectural vision. I am extremely proud of my students and their promising futures in the world of architecture.



A NEW CHAPTER BEGINS

DR. ANWAR IBRAHIM APPOINTED CHAIRMAN OF THE ARCHITECTURE DEPARTMENT

We are proud to announce the appointment of Dr. Anwar Ibrahim as the new Chairman of the Architecture Department. A long-standing and respected faculty member, Dr. Anwar has been an integral part of our academic community, inspiring students and colleagues alike through his dedication, expertise, and vision. His promotion marks an exciting new chapter for the department, and we look forward to the continued growth and innovation under his leadership.

CHAIRMAN WORD

As the new Head of the Architecture Department at Al Yamamah University, I'm pleased to share our annual magazine. It captures the lively energy and hard work in our department. I'm proud of our talented students and dedicated faculty, whose achievements shine in the work we've highlighted.



Over the past year, we've had many activities that enriched our learning environment. Students participated in hands-on workshops, visited significant building projects and construction sites, and learned from distinguished guest speakers. We also formed connections with other architecture departments, which helped us learn and collaborate better. On the other hand, our faculty members showed great dedication through their ongoing research and publications, significantly contributing to the field. Their work in research and student mentorship creates a vibrant and stimulating place to learn.

Looking ahead, we're focused on strengthening this strong foundation. We aim to keep improving our curriculum, offer more hands-on learning opportunities, build stronger ties with the industry, and support our faculty academic pursuits. I'm excited about our department's future and the progress we'll make together, shaping tomorrow's leaders in architecture.



Program Information

The Architecture Program at YU is specially oriented to graduate architects and interior architects with comprehensive knowledge, problem-solving skills, and innovative abilities to produce architectural solutions that are sensitive to human needs and local cultural distinctiveness. The department mission is to enable the rising generation to shape a future marked by positive social and economic progress, the department of architecture is devoted to engaging students in the process of gaining the artistic, scientific, cultural, and technological knowledge upon which they systematically use critical thinking, develop analytical abilities, and master technical skill, to synthesize sustainable and aesthetically-exceptional architectural solutions. The department vision is to be one of the best architectural departments in the Kingdom, and to gain and sustain national and international recognition.

Program Objectives and Outcomes



Strengthen core areas of focus within the program and track advancements in the comprehensive architectural technology and research.



Elevate the profile of the program through providing the highest educational standard.



Attract and retain a diverse faculty and staff of the highest academic and professional experience and research.



Establish a strong relationship between the department and the community.



To graduate professionals who have high efficiency in a wide range of professional practices.



To fulfil the growing demands on architects in Saudi Arabia and the neighboring countries.



Fostering interdisciplinary educational environment.



Incorporate active learning strategies that promote student participation into the education process.



Improve the facilities and resources to support high quality learning, research and work environments.



Providing student support and guidance to enhance the learning experience through.

DEPARTMENT EVENTS

Celebrating Creativity
and Achievement:
Highlights from the
Architecture Department



EXTERNAL ACTIVITY

visit to Naila Art Gallery

SEMINARS / SPEAKERS

City Humanization award

SEMINARS / SPEAKERS

introduction to Production design

FIELD TRIP

ARCH111 Students Explore Tuwaiq Sculpture Symposium

FIELD TRIP

ARCH204 Visit to Misk City

EXTERNAL ACTIVITY

National Heritage Initiative

FIELD TRIP

A trip to Tadawul Tower

WORKSHOP

3D Printer and Laser cutter workshop

WORKSHOP

Basic design full day workshop

EDUCATIONAL TRIP

Jeddah, KSA

EDUCATIONAL TRIP

Abha, KSA

STUDENT ACHEIVMENT

Deans list

STUDENT ACHEIVMENT

Prince Abdulaziz bin Ayaf Award for Urban Design

FACULTY WORKSHOP

Branding of Urban Spaces.

FACULTY WORKSHOP

Innovative Teaching Strategies

Department Events

Art Meets Architecture: A Creative Start to the new academic year 2024-2025

To launch the new academic year on a creative note, the Architecture Department at Al Yamamah University organized a cultural visit to Naila Art Gallery and the Misk Art Exhibition during the first week of the semester. The trip aimed to energize students and ignite their creativity as they began their design studios and coursework.

In addition to exploring a wide range of contemporary artworks and installations, students had the valuable opportunity to engage in conversations with exhibiting artists, gaining insight into their creative processes, concepts, and techniques.



Department Events

WE ARE PLEASED TO INVITE YOU TO ATTEND THE THIRD LECTURE OF THE URBAN LECTURES SERIES INITIATIVE:

Compact City Ultra-High Density for a Low-Carbon Future

Speaker

Keith Griffiths

Founder and Chairman of (Aedas)



Keith Griffiths is a design leader and founder of Aedas. He, as an internationally respected architect and planner, has a deep understanding of the growth of major cities and their changing markets, society and culture. He is passionate to create unique and timeless architecture which appropriately responds to its location and culture and meets the requirements of change and growth.

HOST BY



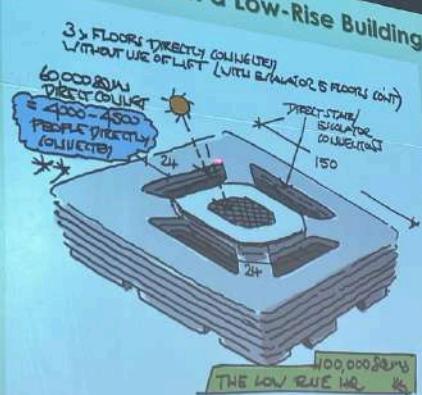
INITIATOR



PARTNERS



Connectivity in a Low-Rise Building



Department Events



Introduction to Production Design

3 Day Workshop

Meme Wahba

COO AL-WARSHAH ART PRODUCTION
PRODUCTION DESIGNER



Workshop Content

- What is production design?
- Production Designer vs Art Director
- Hollywood top production designers
- Considerations for creating a scene
- Production designer's working procedures
- Collaboration with other professionals
- Advertisement design group project



12:00 PM - 3:00 PM



November 17 ,14 ,7



Tuwaiq Building

Department Events



3Days Workshop on Production Design

The Architecture Department at Al Yamamah University recently held a specialized workshop focused on production design, offering students an in-depth look at the creative and technical aspects of designing for visual media.

The workshop explored key topics such as the role of the production designer, scene composition, collaboration with creative teams, and the distinction between production designers and art directors. Participants also engaged in a group project centered on advertisement design, applying their knowledge in a hands-on setting.



Department Events



ARCH111 Students Explore the Tuwaiq Sculpture Symposium

As part of the Riyadh Art Program, students from the ARCH111 Basic Design Studio 2 course at the Architecture Department embarked on an inspiring trip to the Tuwaiq Sculpture event.

The visit offered students an enriching opportunity to witness live sculpting demonstrations, explore a variety of materials, and gain firsthand insight into the intricate design and creative processes behind monumental sculptures.

Highlighting the experience was a hands-on gypsum carving workshop, where students actively engaged in the art of sculpture, developing their understanding of form, texture, and materiality.

This educational and inspiring event successfully bridged the worlds of art, design, and creativity, leaving a lasting impact on the next generation of architects.



Department Events



ARCH111 Students Explore the Tuwaiq Sculpture Symposium



Department Events



ARCH204 Visit to Misk City

As part of the Building Construction course this semester, architecture students had the opportunity to visit Misk City, one of Riyadh's major ongoing development projects. The course, which focuses on the fundamentals of construction—including site preparation, excavation, foundations, columns, beams, slabs, reinforced concrete, precast elements, and steel structures—was greatly enriched by this hands-on experience.

The visit offered students valuable real-world insights into modern construction practices, allowing them to observe firsthand the techniques and structural systems they have been studying in the classroom. By bridging theoretical knowledge with practical application, the site visit deepened their understanding of the complexities and innovations shaping contemporary construction.

Misk City provided an ideal setting for students to witness large-scale building operations, reinforcing their academic learning and inspiring their future professional practice.



Department Events



ARCH204 Visit to Misk City



Department Events

مختبر التاريخ الوطني

مختبر التاريخ الوطني

الحدث التنافسي الذي تقيمه دارة الملك عبدالعزيز
ويجمع نخبة من طلاب وطالبات الجامعات السعودية

التاريخ

26-28 نونبر

الموقع

مركز المؤتمرات والمعارض
بجامعة الأميرة نورة بنت
عبدالرحمن

Alyamamah University proudly joins the prestigious History National Laboratory Competition, presenting an innovative architectural model that captures Saudi Arabia's journey through time.

The design features panels of steel adorned with abstracted symbols and images, showcasing the past, present, and future:

- The Past: Represented through traditional motifs reflecting Saudi heritage.
- The Present: Highlighted by modern patterns and vibrant imagery symbolizing progress.
- The Future: Expressed through futuristic shapes and designs inspired by NEOM.

This immersive project connects viewers to Saudi Arabia's rich history and visionary future, aligning with the goals of Vision 2030.



Department Events



Department Events



Architecture Department Participates in National Heritage Initiative



Students from the Architecture Department at the College of Engineering recently participated in the Heritage Gateway initiative, following an invitation from the Saudi Heritage Commission.

The event, organized as part of the commission's ongoing efforts to promote cultural awareness, featured a series of workshops and presentations led by heritage experts. These sessions introduced students to the commission's core missions and activities, emphasizing the critical role of heritage preservation in reinforcing national identity.

Through this immersive experience, students gained a deeper understanding of the intersection between architecture and cultural heritage, enriching their academic journey with insights into the responsibility of architects in safeguarding and enhancing both cultural and architectural legacies.

Department Events

A trip to Explore High-Rise Design at Tadawul Tower

The Architecture Department at Al Yamamah University conducted a field visit to Tadawul Tower in the King Abdullah Financial District.

The visit provided students with a valuable opportunity to engage with one of Riyadh's most iconic contemporary structures. They explored the tower's architectural and engineering design details, gaining practical insights that complemented their academic studies.

By connecting theoretical learning with real-world observation, the experience enriched their understanding of high-rise design, advanced construction systems, and mixed-use urban development.



Department Events

The Architecture Department at Al Yamamah University held a two-day workshop on 3D printing and laser cutting, led by Dr. Ibrahim Abdelhady. Held at the 3D Printing Lab in Tawiq Building, the sessions introduced students to essential digital fabrication tools, enhancing their design skills through hands-on experience.

The event highlighted the department's commitment to integrating technology into architectural education and preparing students for future design challenges.



جامعة اليمامة
Al Yamamah University

The Architecture Department, College of Engineering & Architecture at Al Yamamah University
invites you to attend a 2 days workshop:

3D PRINTER
&
LAZER CUTTER

TUESDAY 29/10/2024 12:00 - 1:00 PM	WEDNESDAY 30/10/2024 10:30 - 11:30 AM
THE 3D PRINTING LAB, TAWIQ BUILDING	

A photograph showing two 3D printers and a laser cutter. The 3D printers are black and are printing orange and blue objects respectively. The laser cutter is a large white machine with its lid open. The background has some orange and white diagonal stripes.

Department Events



Architecture Department Highlights Excellence with Educational Trip to Jeddah



The Architecture Department at Al Yamamah University organized a fully funded academic trip to Jeddah for students on the Dean's List, celebrating their outstanding achievements.

During the visit, students engaged in a workshop hosted by King Abdulaziz University, fostering academic exchange and exposure to new perspectives in architectural education. The group also attended the Jeddah Construct event, gaining valuable insights into the latest innovations in construction and design.

A key highlight of the trip was the exploration of Jeddah Al Balad, the city's historic district, where students experienced the rich architectural heritage and urban fabric that define this UNESCO World Heritage Site.

This trip reflects the department's commitment to rewarding academic excellence and enhancing student learning through real-world experiences.

Department Events



Architecture Department Trip to Abha

Students from the Architecture Department at Al Yamamah University recently took part in a design workshop focused on the local architecture of the Asir region. Organized in collaboration with King Khalid University's College of Architecture and Planning, the workshop was held at the Al-Faraa campus.

The workshop aimed to highlight the importance of incorporating local identity in modern design while considering environmental and heritage values. Discussions centered on traditional Asiri architecture, sustainable design principles, and integration with the natural landscape.

As part of the activities, students from both universities developed and presented design proposals inspired by Asiri architecture, combining traditional elements with contemporary concepts.

This workshop was a key component of the Architectural Design Studio 1 course, linked to the students' ongoing project located in the Jabal Al-Soudah area. The visit also included tours of historical sites such as the Abu Sarah Palaces and other heritage landmarks in the region.

Department Events



Department Events



Students of **ARCH111 Basic Design Studio 2** participated in a full-day hands-on workshop focused on constructing 1:1 scale models of architectural landmarks. Working in teams, students collaborated to translate design concepts into physical structures, gaining practical experience in form, proportion, and spatial understanding. The activity not only reinforced key design principles but also fostered teamwork, problem-solving, and creativity.

Department Events



Department Events



We are Proud of our students
outstanding achievements !



باعتزاز وفخر

تهنئ جامعة اليمامة طالباتها المتميزات **سارة بطة ولطيفة السلامة** لفوزهن في جائزة الأمير عبدالعزيز بن عياف لأنسنة المدن، بعد تقديم مشروع ريادي يهدف إلى أنسنة مراكز الأحياء، متفوقات على أكثر من 200 مشاركة.

Al Yamamah University congratulates our distinguished students **Sara Bata** and **Lateefa Al-Salama** for winning Prince Abdulaziz bin Ayaf Award for Urban Design. They were recognized for presenting an innovative project aimed at enhancing the livability of city centers, standing out among more than 200 participants.



Congratulations

to the Graduating Class of 2025!

We proudly celebrate the achievements of our architecture graduates, who have demonstrated resilience, creativity, and dedication throughout their academic journey.



Department Events



Department Events

Architecture Faculty Participate in Training on Urban Space Branding

As part of its ongoing commitment to academic and professional development, faculty members from the Department of Architecture attended a specialized training course titled “Branding of Urban Spaces.”

Organized in collaboration with the Local Administration Center, the course focused on strategies for enhancing the identity and experience of urban environments through design.



Department Events

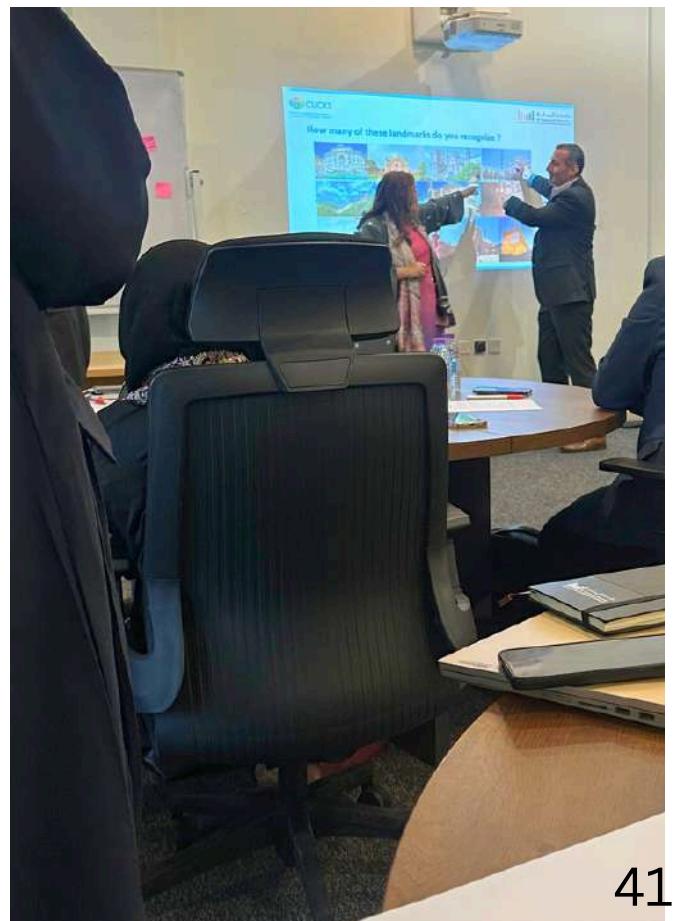
Faculty Development Workshop Explores Innovative Teaching Strategies

Faculty members from the Architecture Department at Al Yamamah University participated in a one-day faculty development workshop titled “Enhancing Student Engagement Through Innovative Teaching Strategies,” held as part of the university’s commitment to academic excellence.

Led by Dr. Nirimane Hadj-Hamou, Founder and CEO of CLICKS, the workshop focused on integrating innovative pedagogies to create active, student-centered learning environments. Topics included experiential learning, team-based learning, and flipped classroom strategies aimed at boosting student motivation and engagement.

Participants engaged in a range of interactive activities such as role-plays, debates, concept mapping, and collaborative problem-solving, all aligned with learning outcomes. The workshop also emphasized the use of technology to enhance participation and interaction in various teaching contexts.

The participation of the Architecture faculty reflects the department’s dedication to continuous improvement and to adopting forward-thinking approaches in design education.

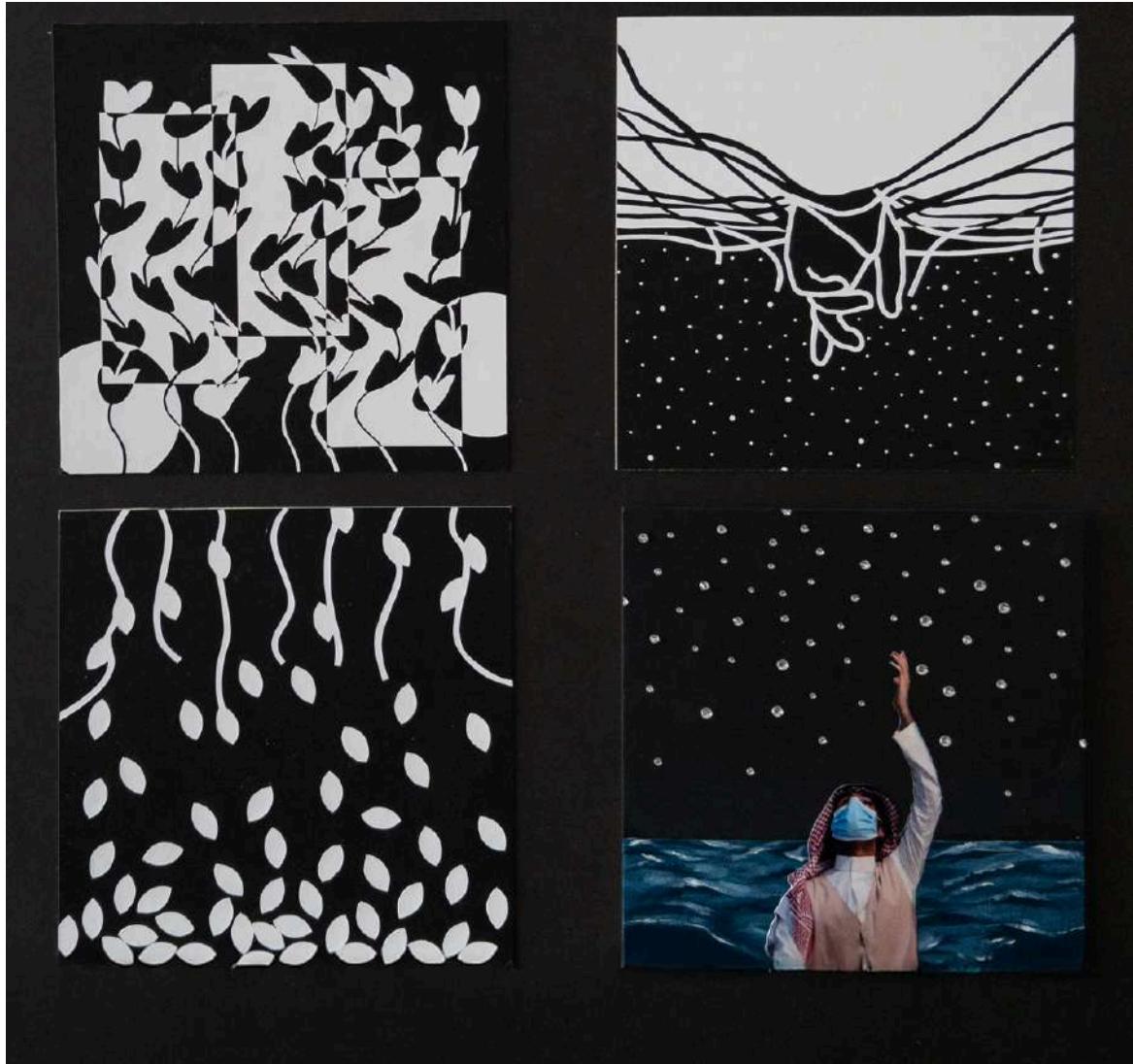


STUDENTS WORK



ARCH101: 2D DESIGN PRINCIPLES

INSTRUCTOR: Ms.Mahasen Alqahwaji



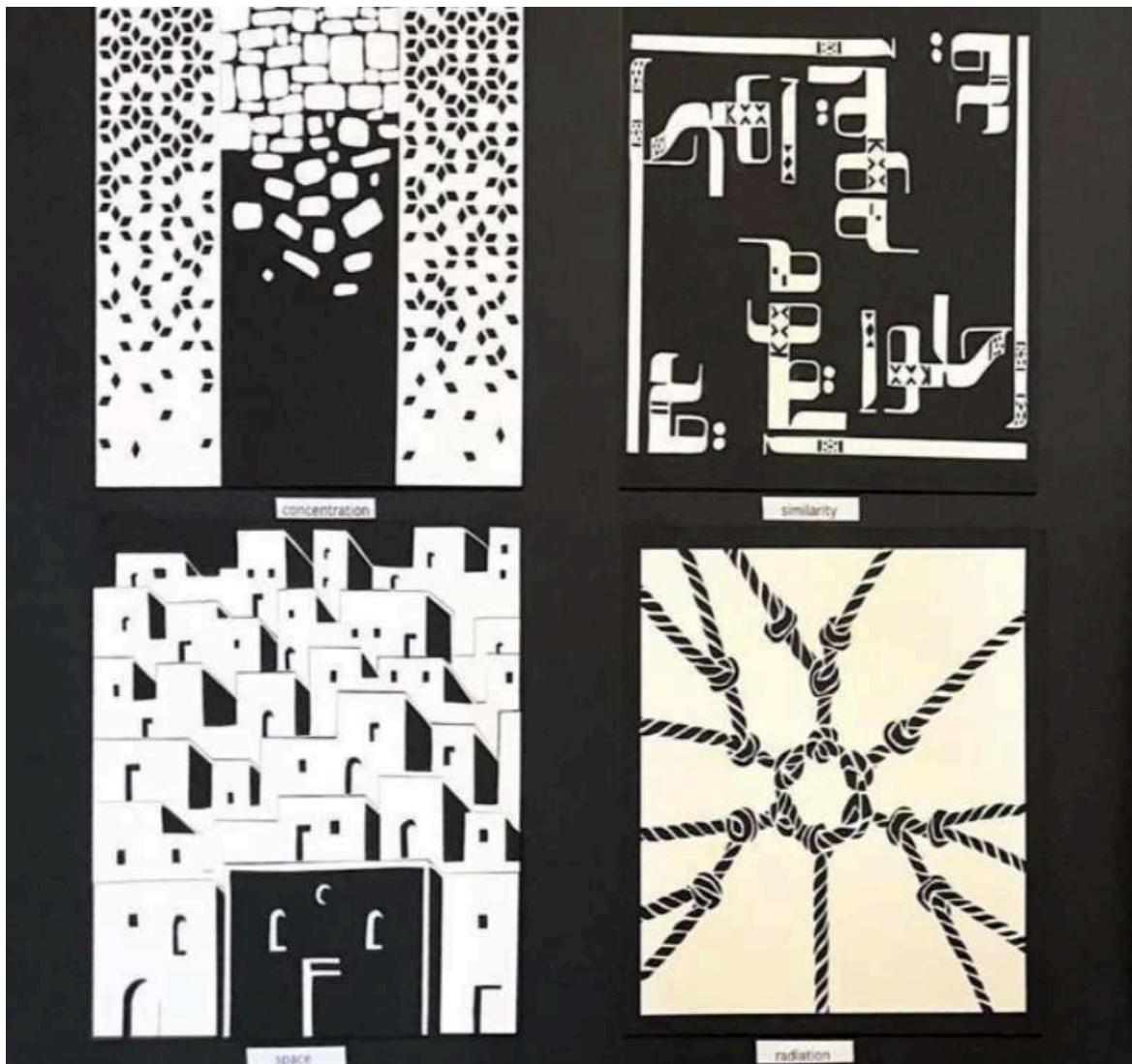
Firas Alfadda

CONCEPT

This project is a personal emotional journey through the night, expressed in six conceptual stages. I began with the hidden essence of the night through radiation, followed by doubt shown in contrast. Exploration was captured through anomaly, then loss through similarity. Sadness appeared as concentration, and finally, a sense of belonging emerged through texture. Each stage reflects a deepening connection with the night and its emotional layers

ARCH101: 2D DESIGN PRINCIPLES

INSTRUCTOR: Ms.Mahasen Alqahwaji



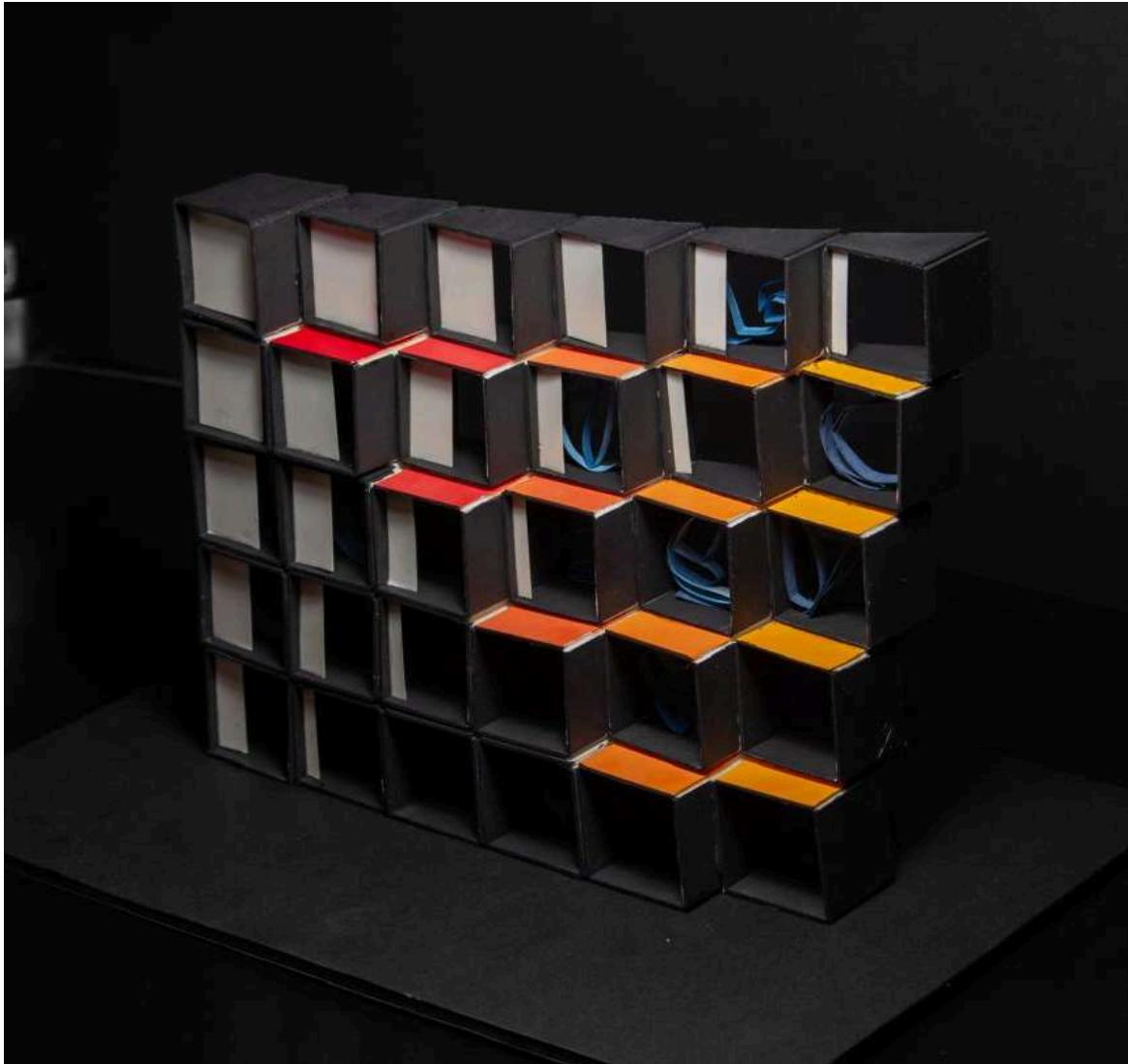
Fatima Kakakhan

CONCEPT

لا تسأل الدار عنمن() (كان يسكنها الباب يخبر ان القوم قد رحلوا so I took my inspiration from the door, not just any door it is an old door. for me It represented my grandparent house that was left abandoned, and this door meant life to me and it holds life, memories and nostalgia all this day.

ARCH111: 3D DESIGN PRINCIPLES

INSTRUCTOR: Ms.Mahasen Alqahwaji



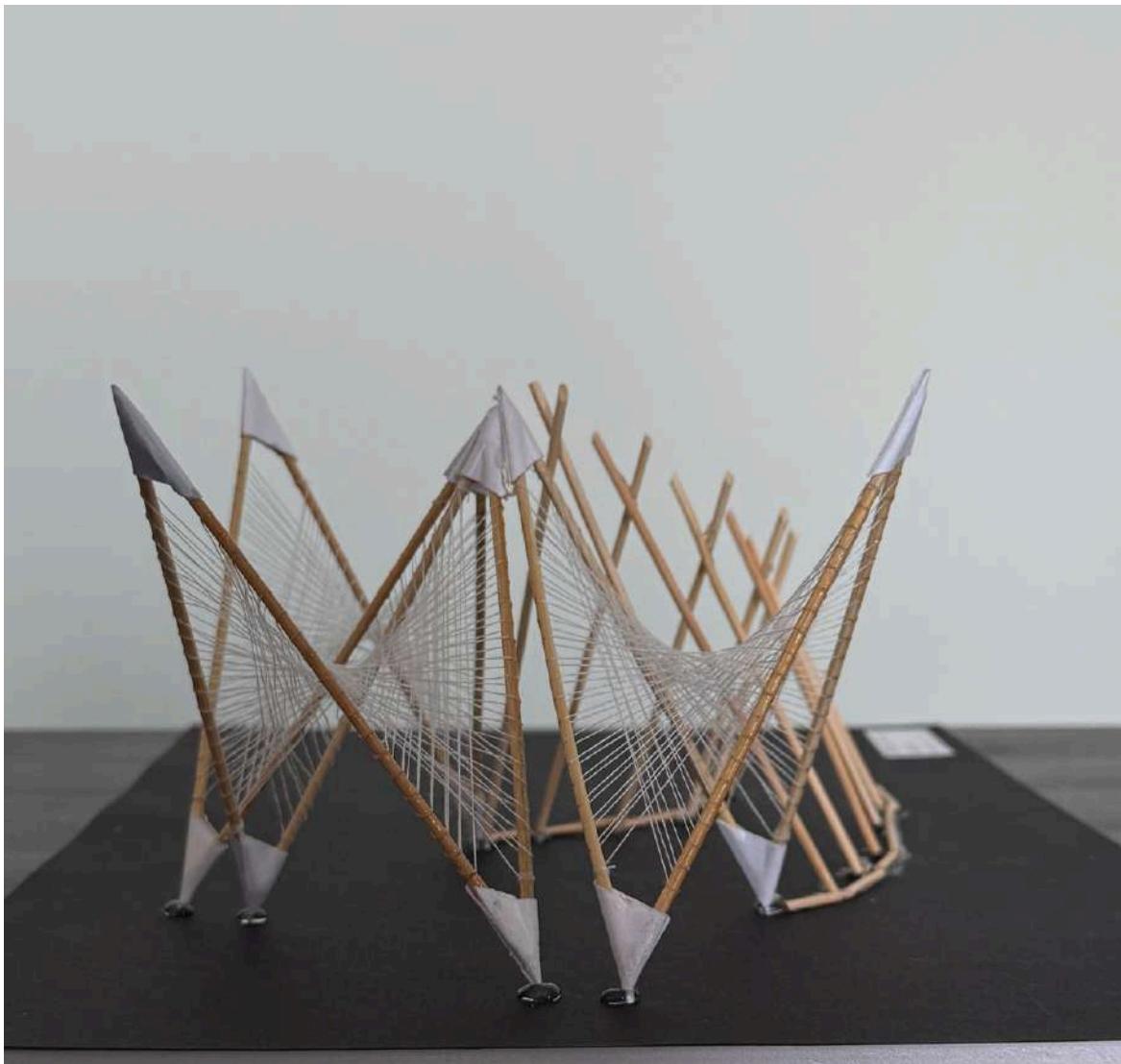
Firas Alfadda

CONCEPT

This wall installation investigates the concept of everyday opportunities as possibilities in space. Each plain space cell embodies a possible opportunity that comes through our lives. The depth of the cells signifies the value or the impact that the opportunity holds. Within the cells, the abstracted forms represent our individual response—whether we grab or let slip or mold the opportunity that comes to us. In this conceptual framework, the work embodies the way that space becomes a figurative representation of the invisible layers of time, decision, and activity.

ARCH111: 3D DESIGN PRINCIPLES

INSTRUCTOR: Ms.Mahasen Alqahwaji



Zeenath Idrees

CONCEPT

This model represents a transition between structure and fluidity. A wooden framework forms a rhythmic, orderly base, resembling a walkway's spine or a pavilion's ribs. Interwoven threads create dynamic, curving surfaces that flow between the angled frames, symbolizing tension, energy, and connection. The contrast between rigid wood and soft threads conveys a balance between control and freedom, geometry and emotion, reflecting architecture's ability to guide both movement and perception.

ARCH111: 3D DESIGN PRINCIPLES

INSTRUCTOR: Ms.Mahasen Alqahwaji



Amira Qasem

CONCEPT

This model represents a house designed within a natural setting, reflecting the ideas of nature and adventure. Large glass walls surround most of the structure to offer a view of the landscape. The roof is inspired by the shape of a mushroom, a symbol often linked to the forest, combining organic form with a sense of exploration. This model includes two terraces: one with a swimming pool, while the other is elevated and cantilevered, offering a unique viewpoint over the natural surroundings.

ARCH102: ARCHITECTURAL DRAWING I

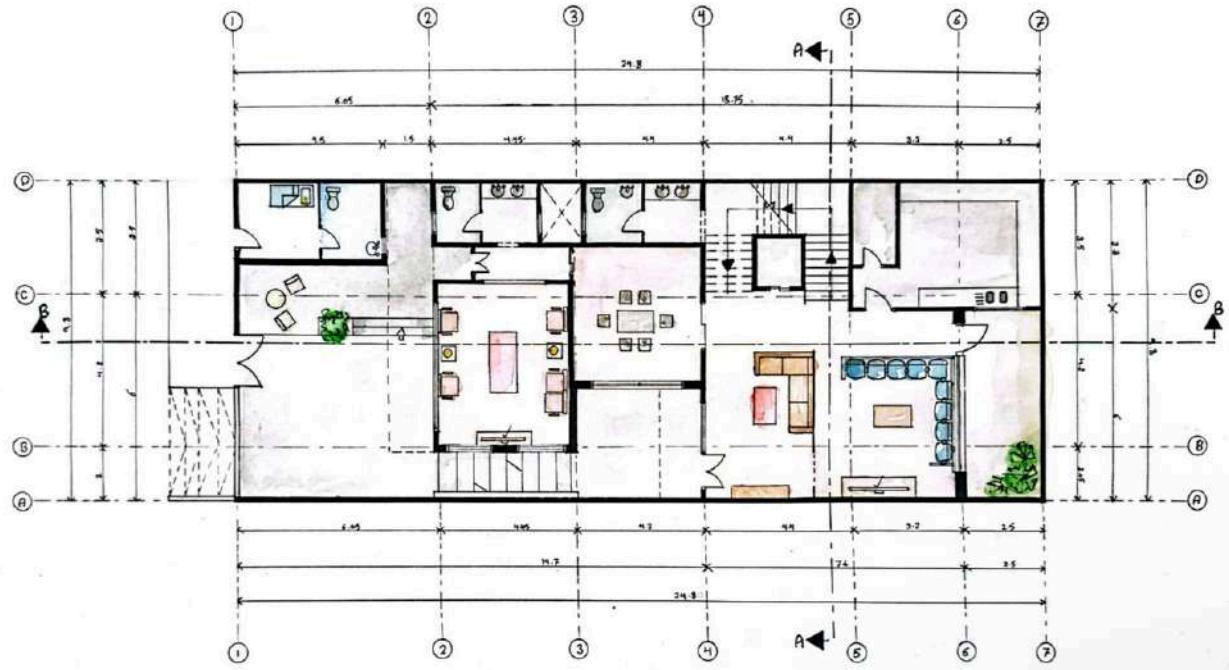
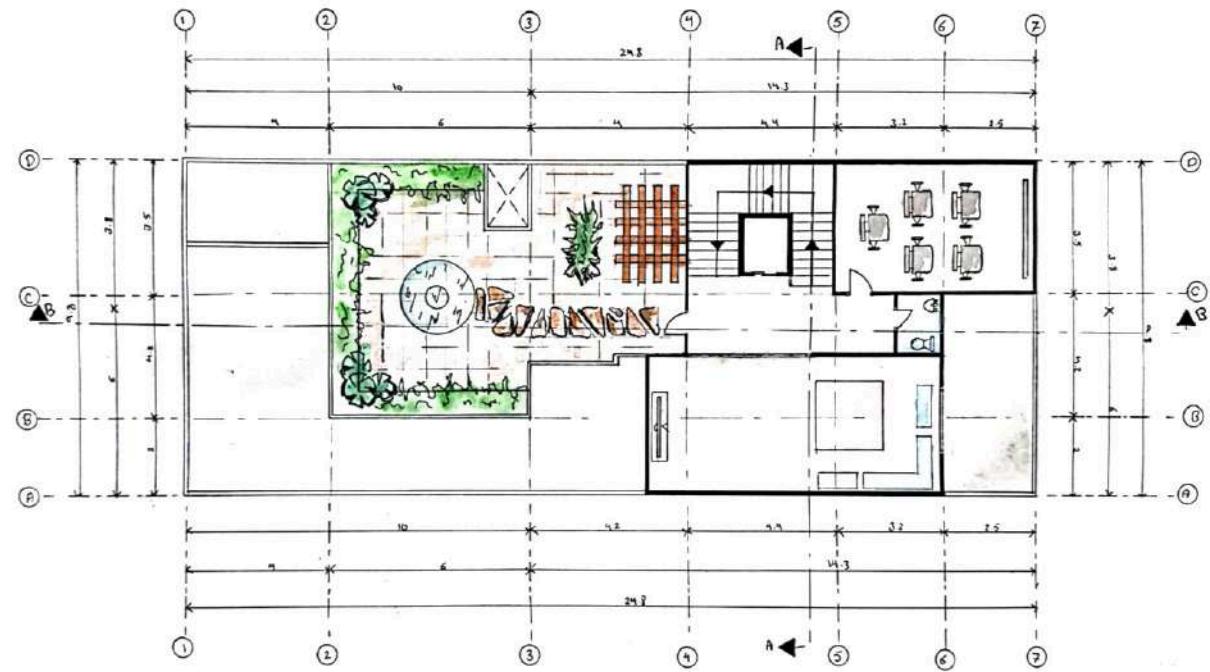
INSTRUCTOR: Ms.Esraa Samman



Sara Zakaria

CONCEPT

In this project, we redrew a full villa's architectural drawings including plans, elevations, and sections as well as had the chance to design the top floor. For the roof plan, my design has an outdoor seating area with a small pool in the center, a home cinema, and other relaxing features to make the space spacious and enjoyable. The elevations include the ground floor, first floor, and the custom-designed roof. Designing the roof was a really fun and creative part of the project.



ARCH201: VILLA DESIGN

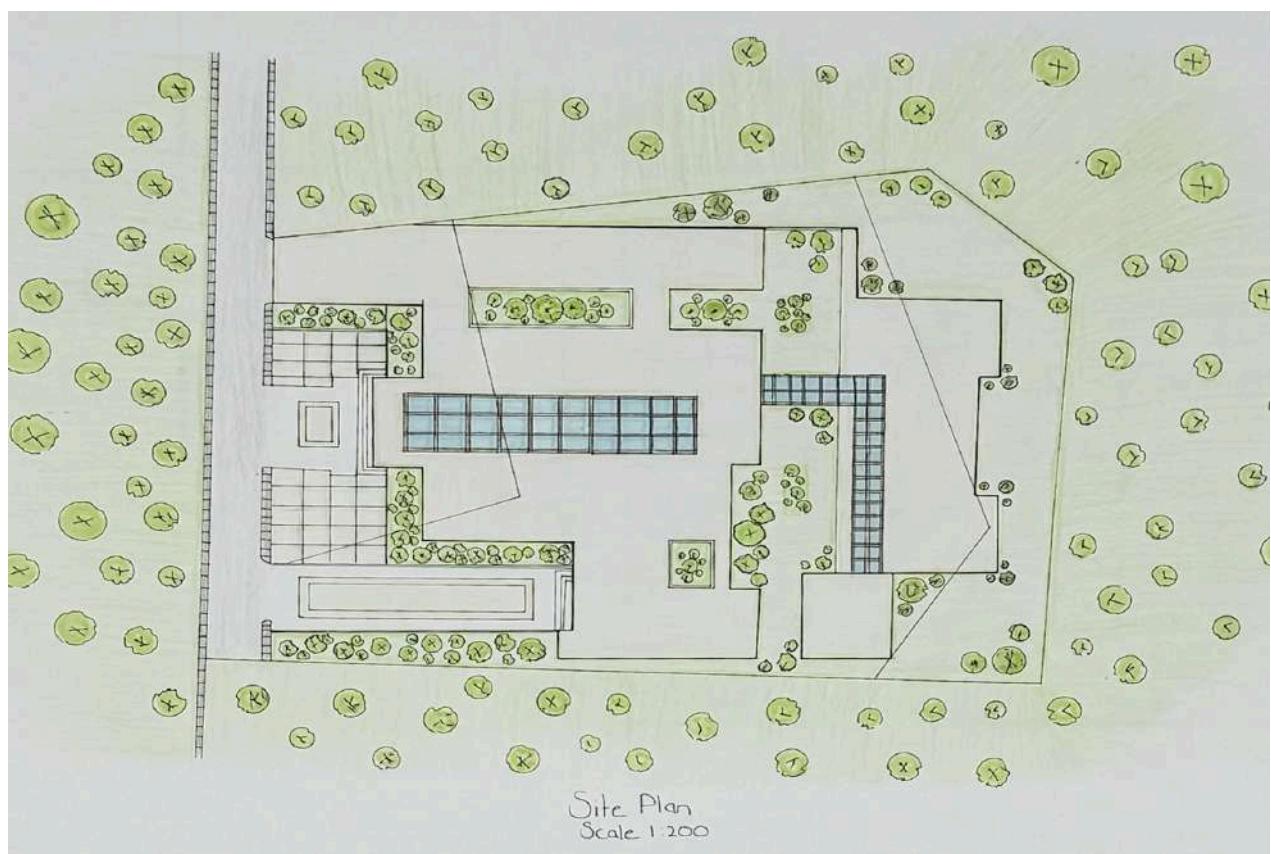
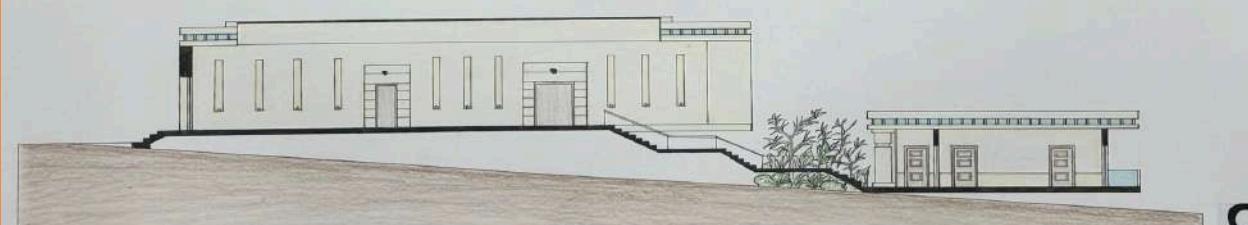
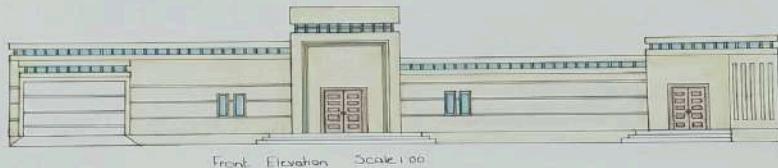
INSTRUCTOR: Dr.Ibrahim Abdelhady



LUJAIN ABDALAAL

CONCEPT

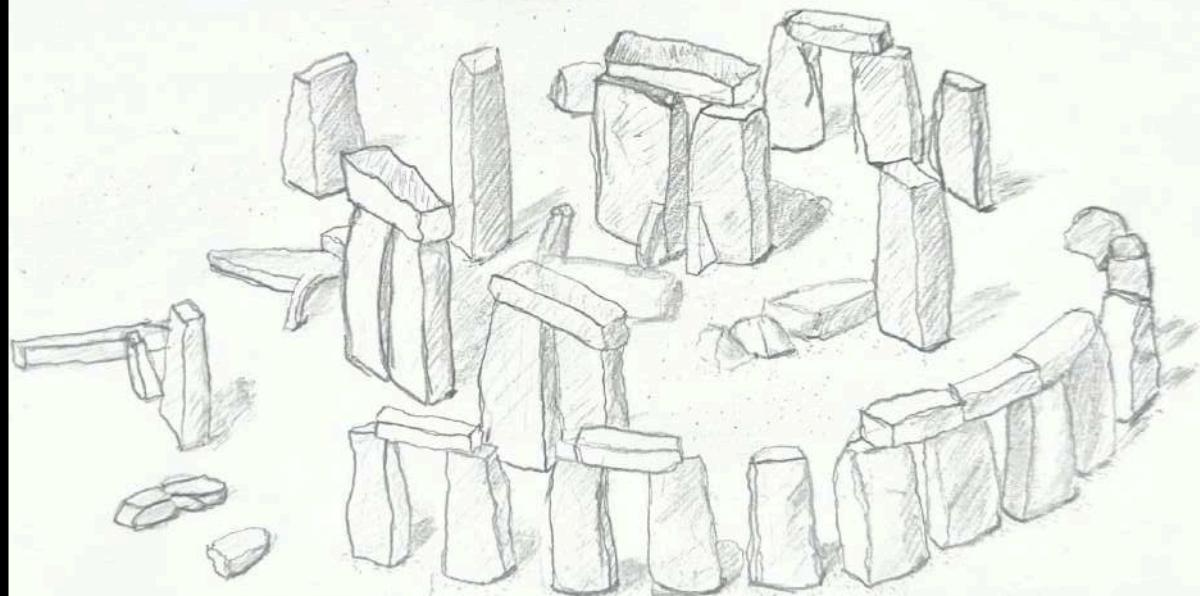
A modern villa inspired by Pharaonic architecture, seamlessly blending minimalist design with ancient grandeur. The composition features clean lines and open interiors, balanced by monumental stone forms, symbolic motifs, and the axial symmetry of Egyptian temples



ARCH202: History of Architecture

INSTRUCTOR: Ms.Esraa Samman

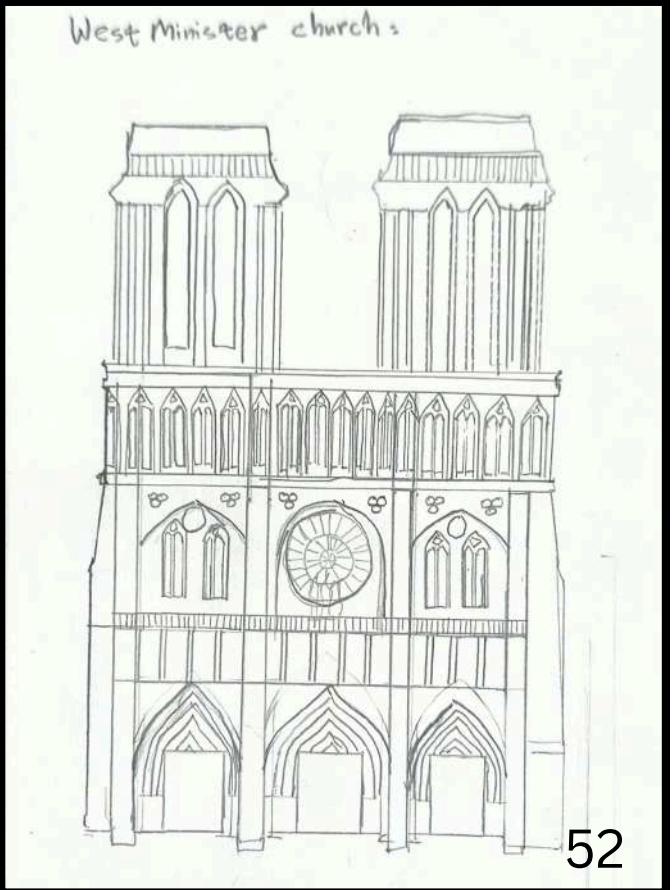
Stonehenge:



MAZIN GABIR

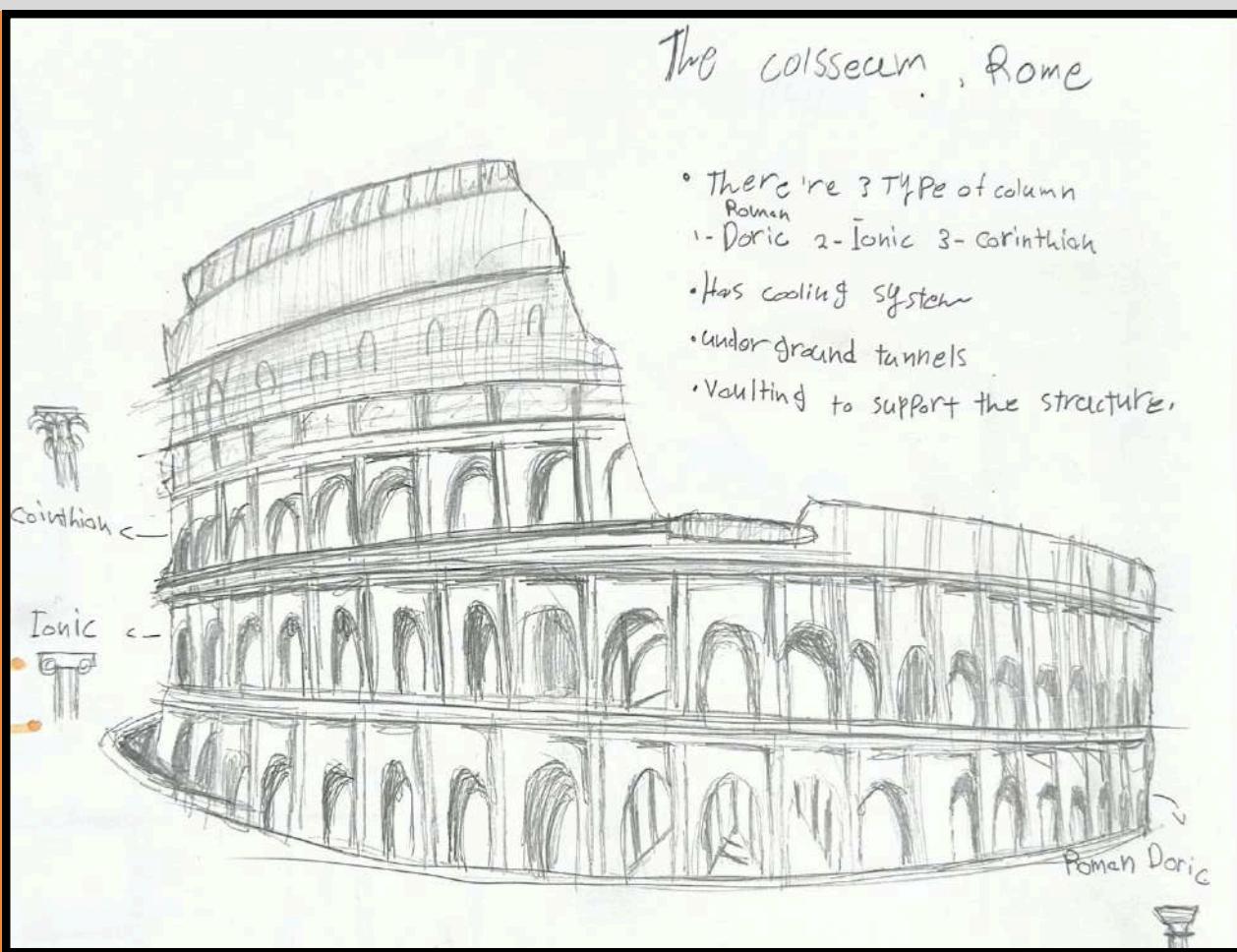


West Minister church:

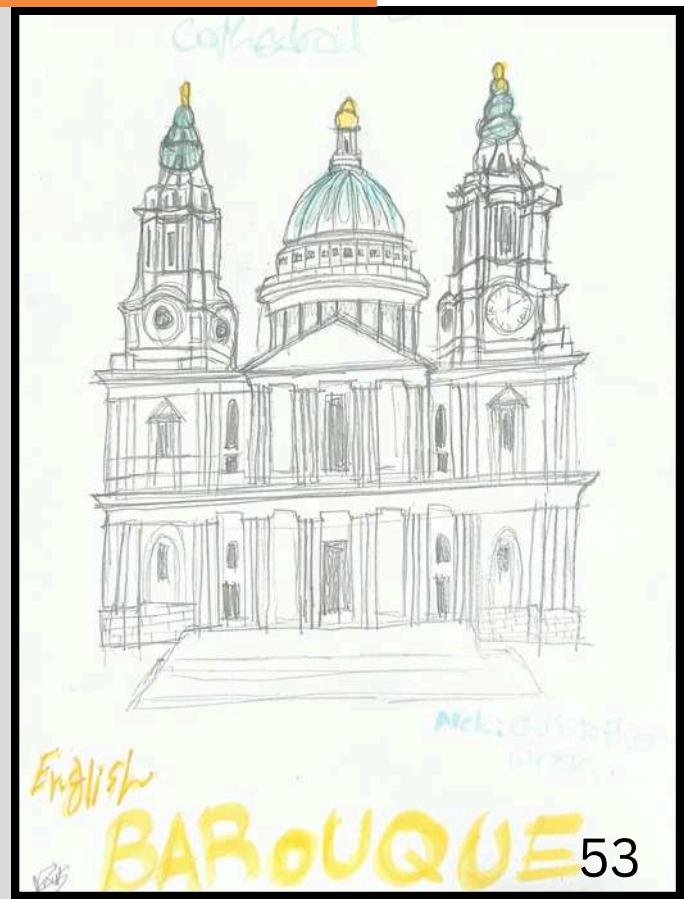
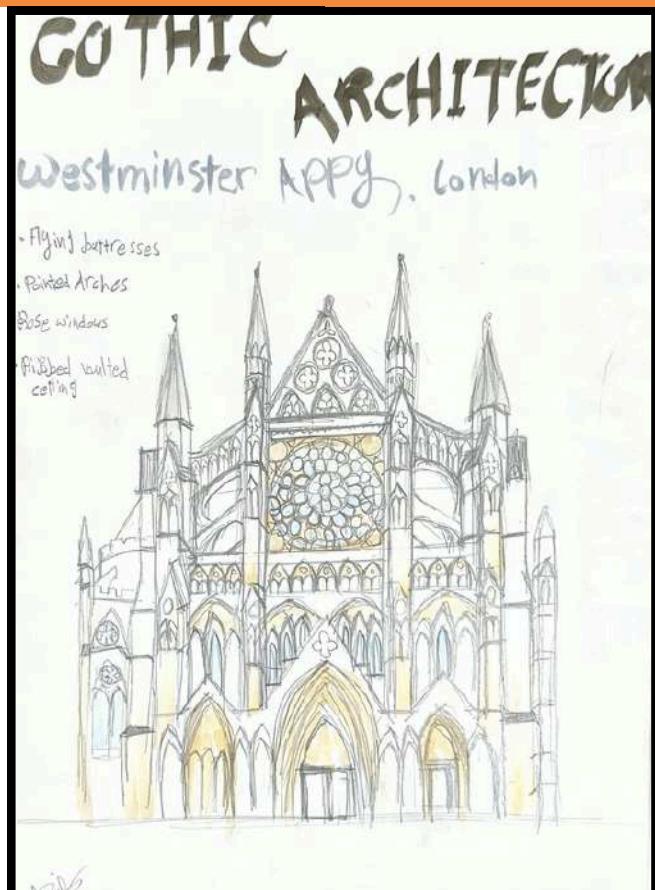


ARCH202: History of Architecture

INSTRUCTOR: Ms.Esraa Samman

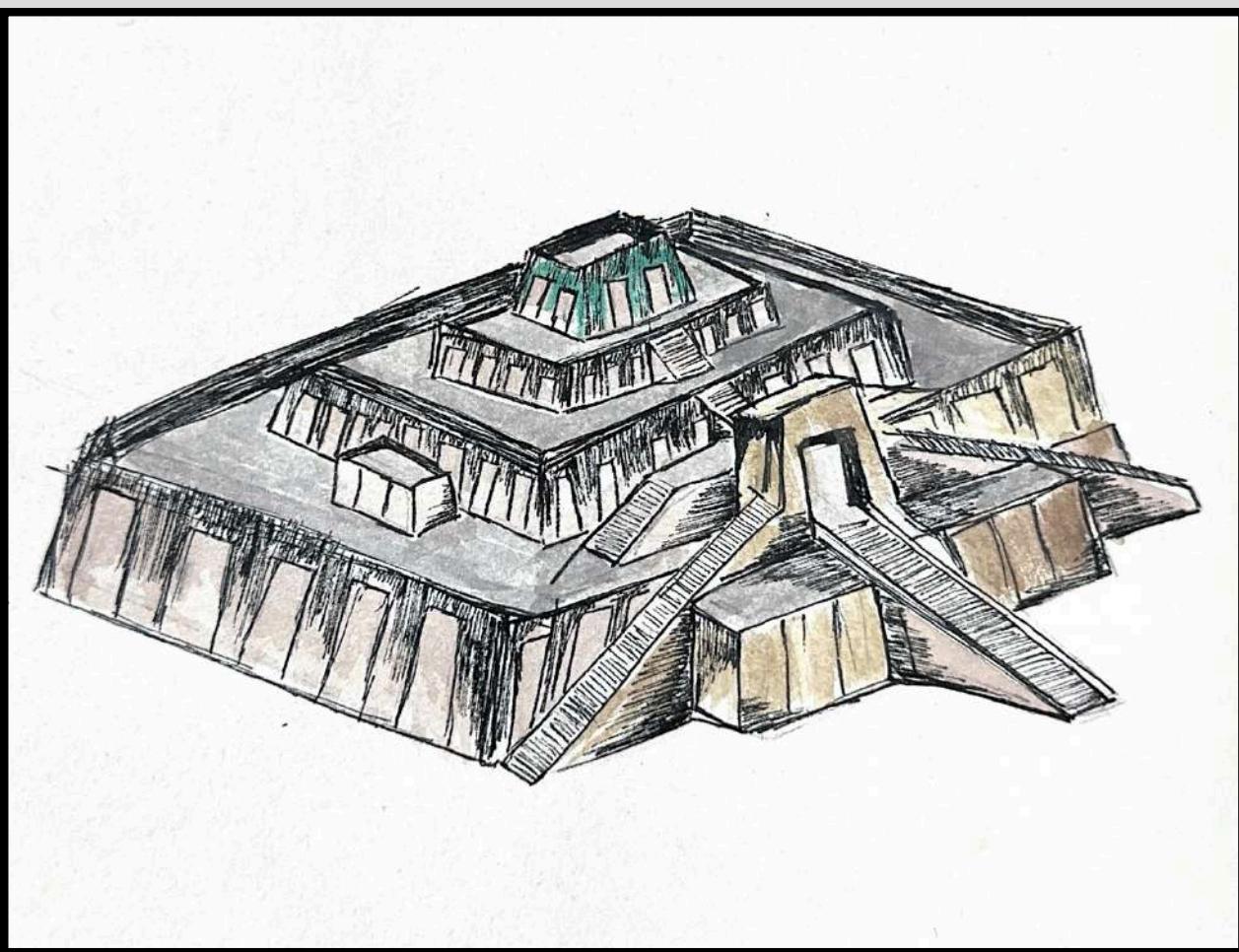


AREEJ ALKAHLOUT



ARCH202: History of Architecture

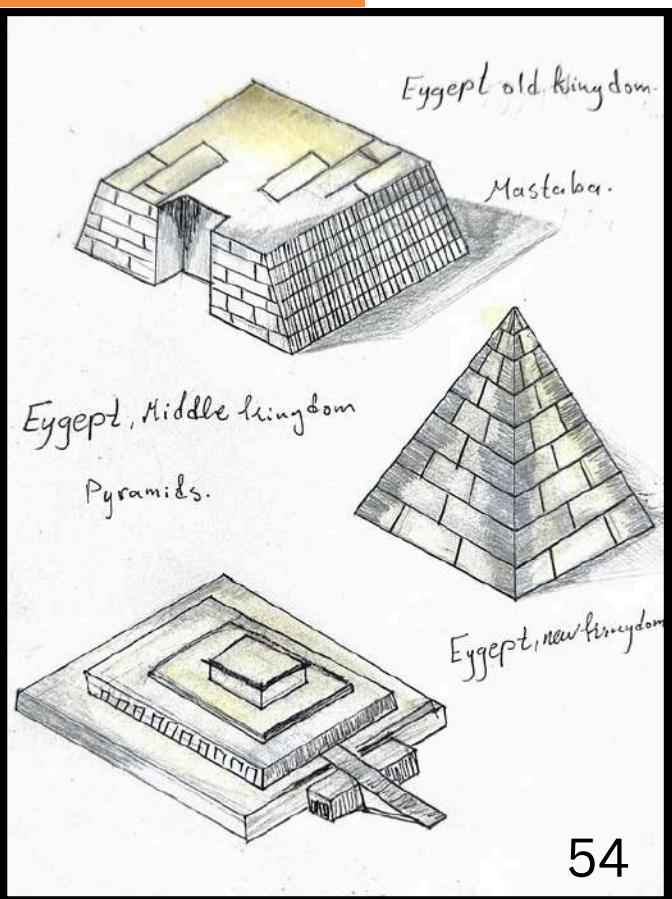
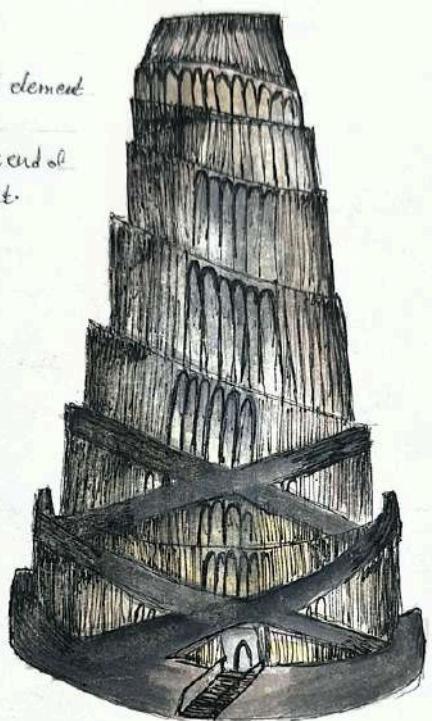
INSTRUCTOR: Ms.Esraa Samman



LAYANA SAYYADI

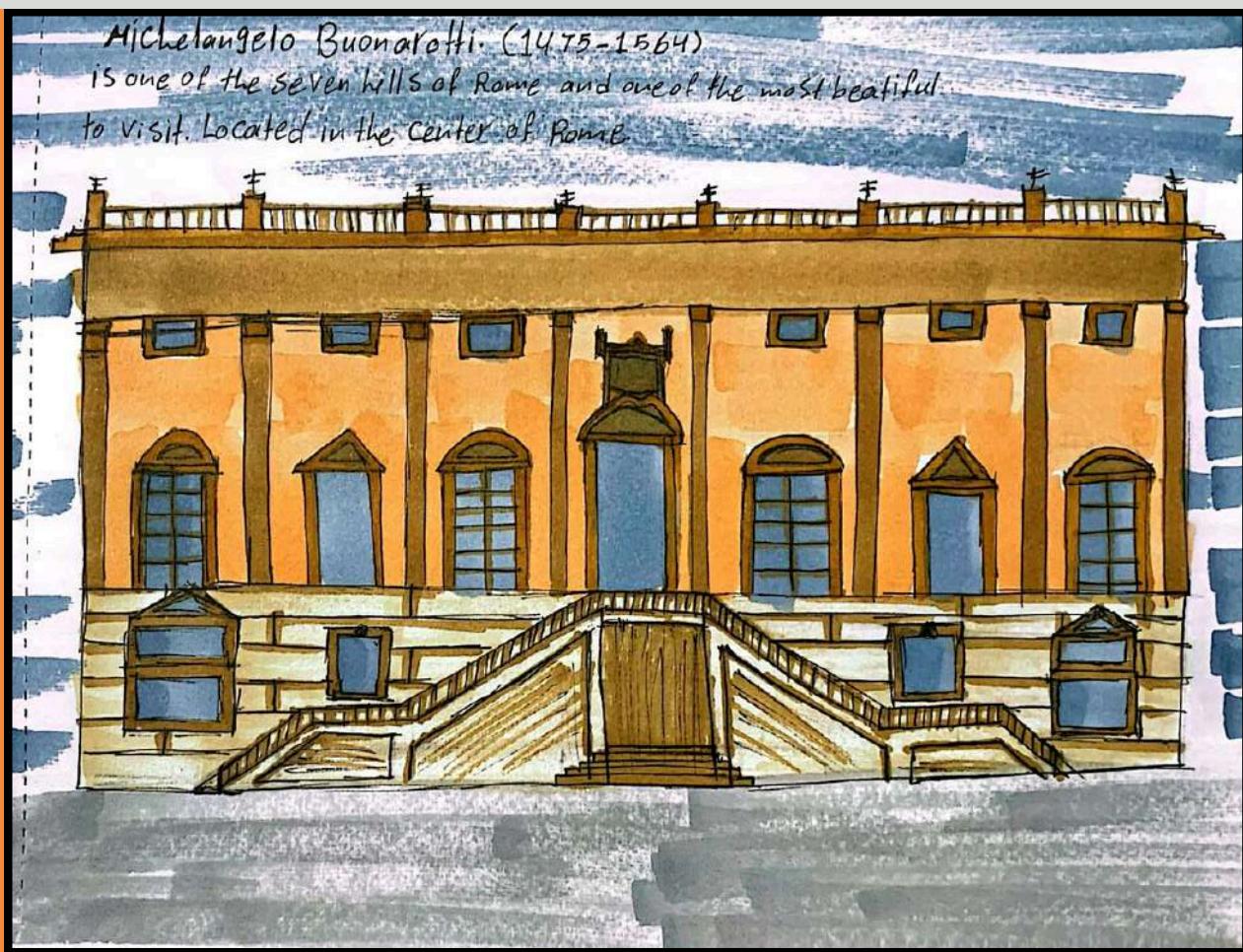
TOWER OF BABEL

- Architectural element of Babylon
- Located at the end of procession street.

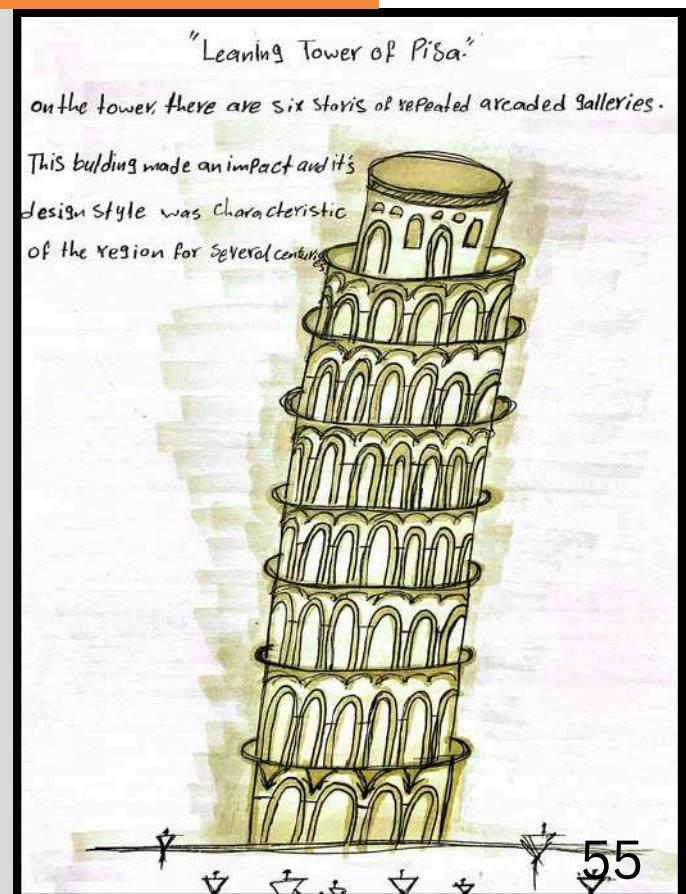
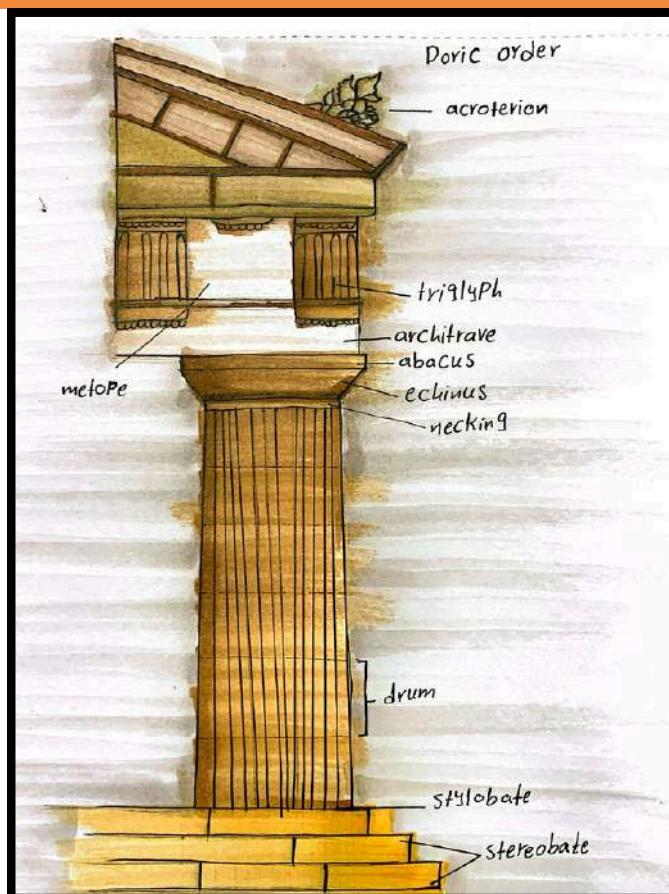


ARCH202: History of Architecture

INSTRUCTOR: Ms.Esraa Samman

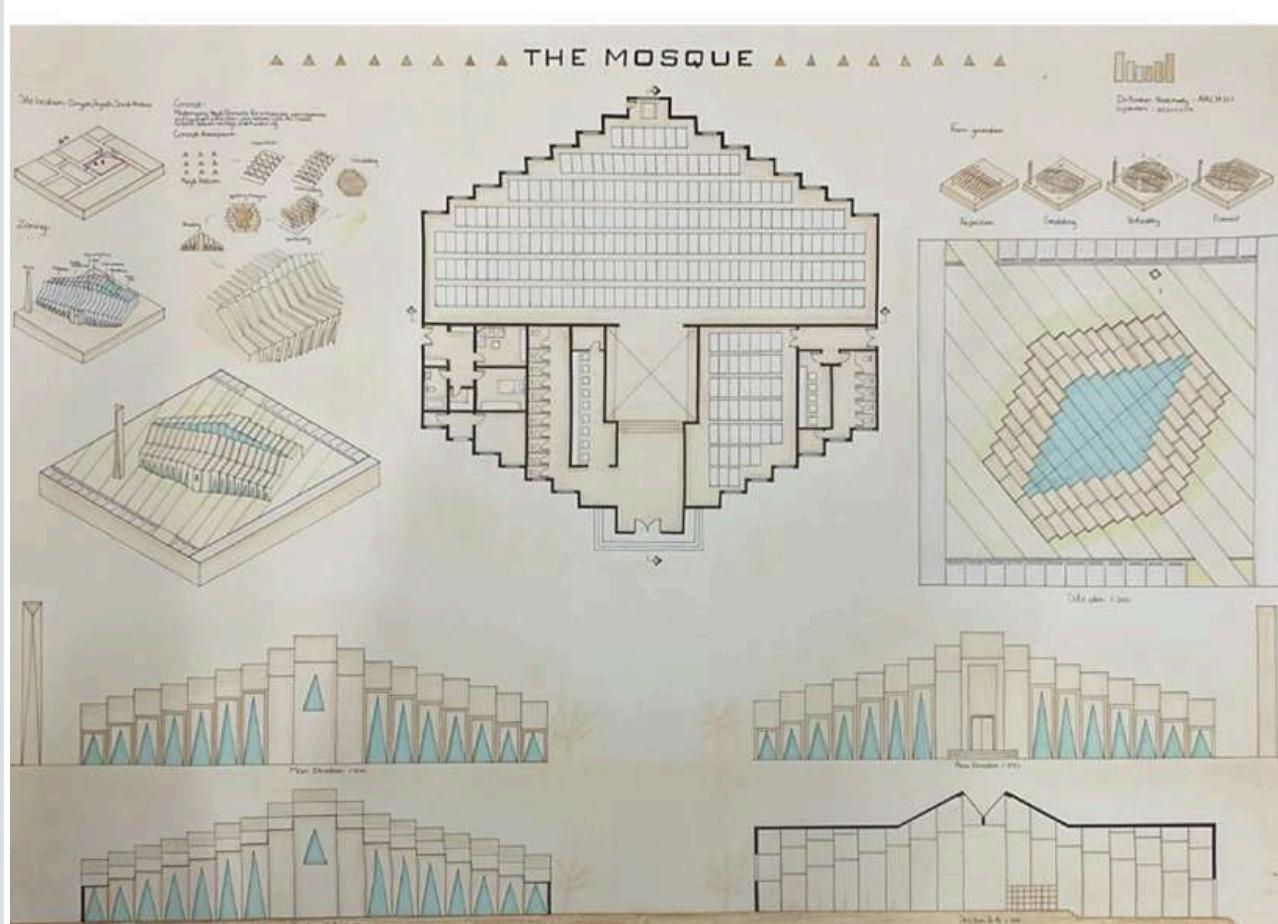


REHAM MOHAMMED



ARCH211: MOSQUE DESIGN

INSTRUCTOR: Dr.Ibrahim Abdelhady

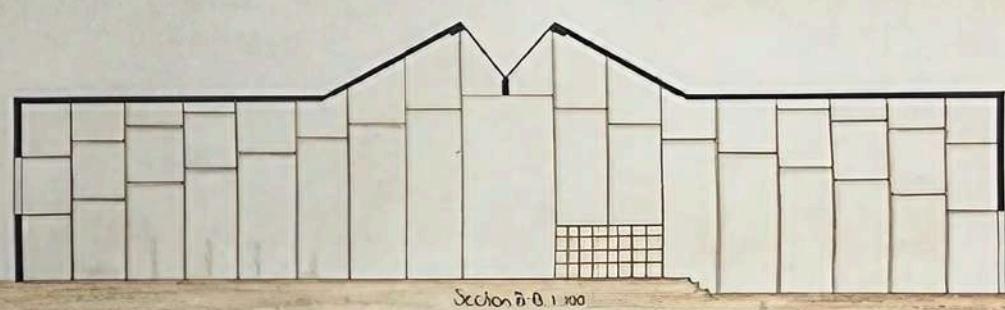
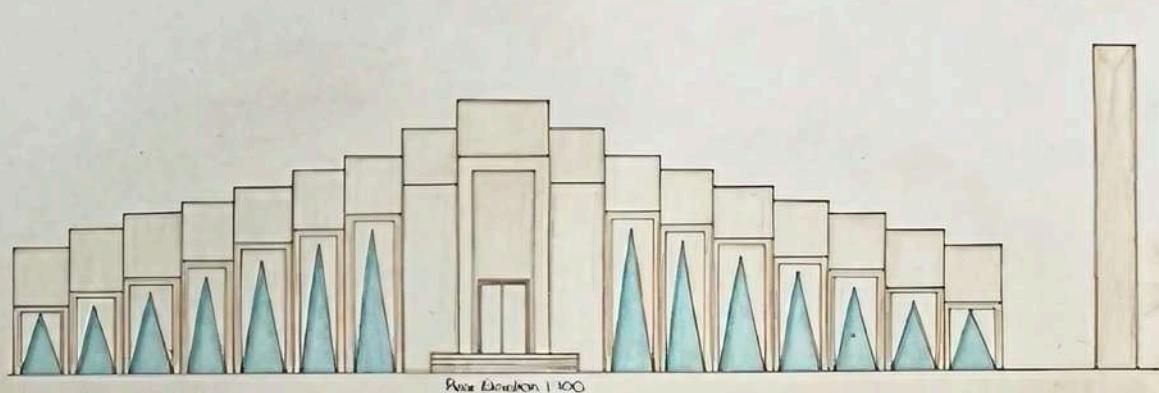
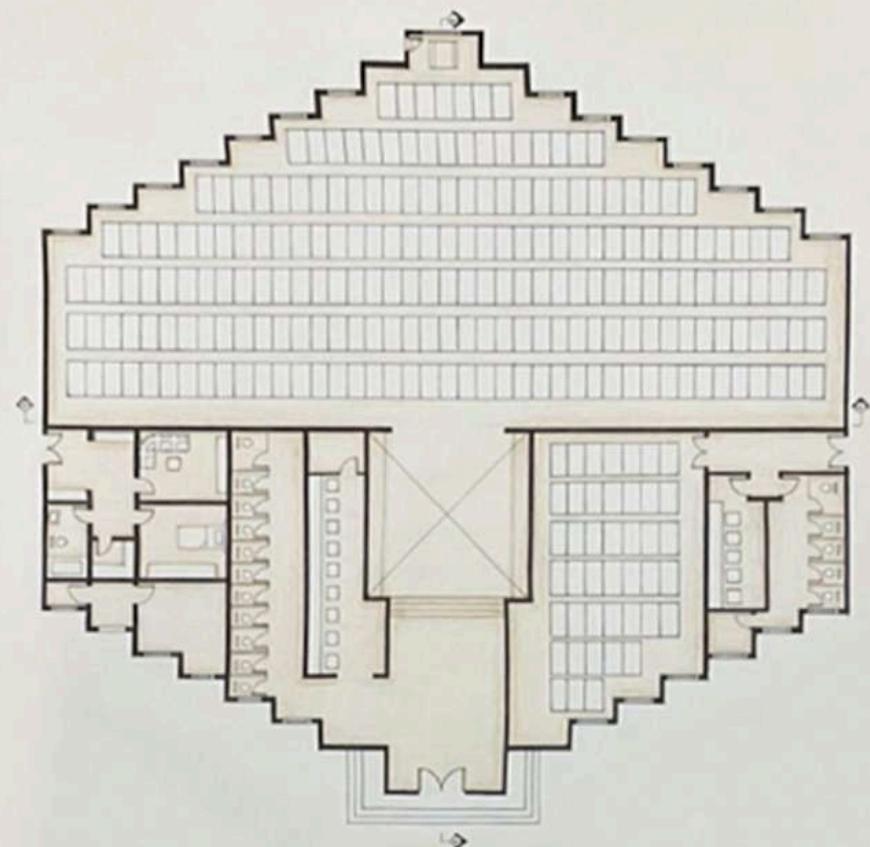


LUJAIN ABDALAAL

CONCEPT

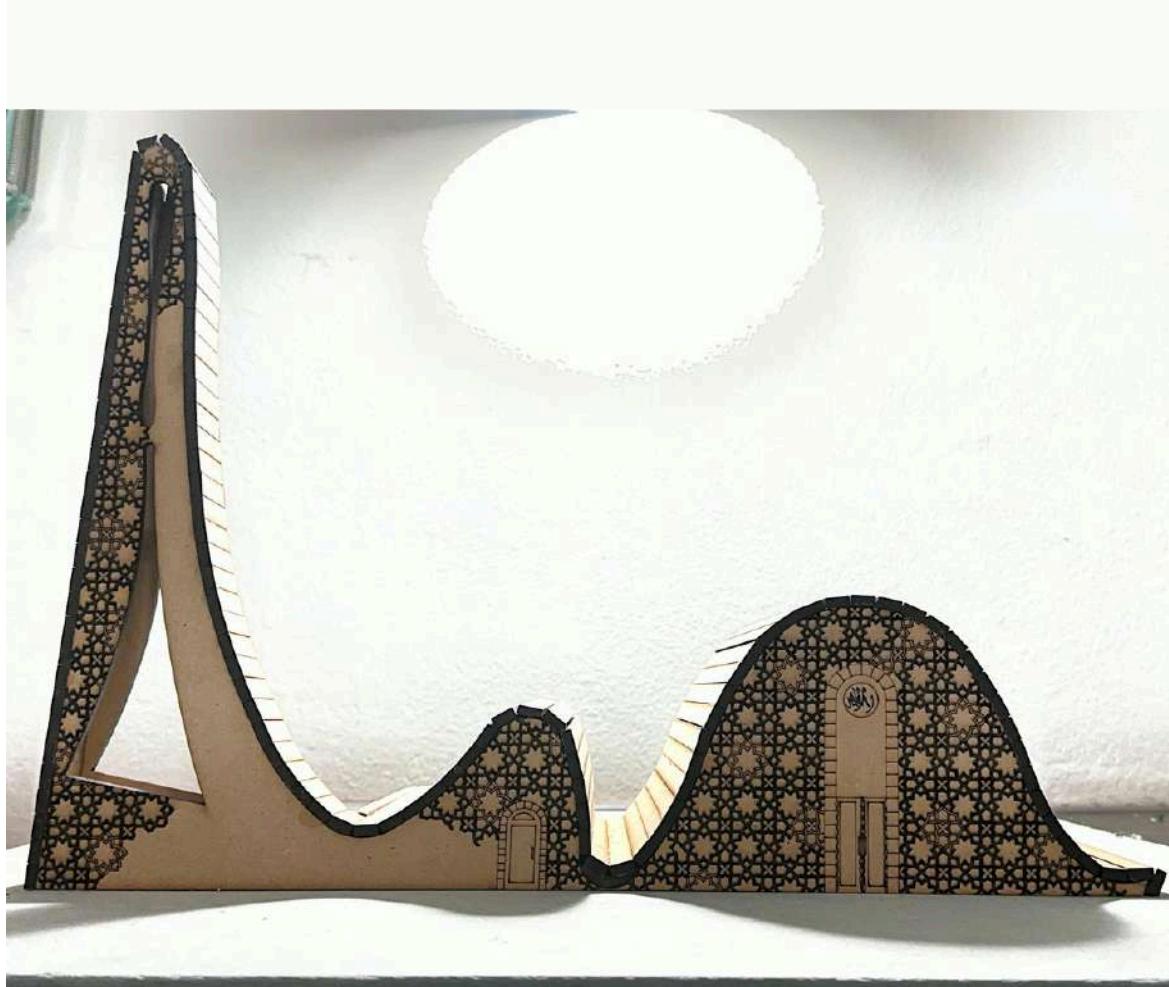
A fusion of Najdi heritage and parametric design, this mosque reinterprets traditional forms for modern performance and cultural continuity

THE MOSQUE



ARCH211: MOSQUE DESIGN

INSTRUCTOR: MS. ESRAA SAMMAN

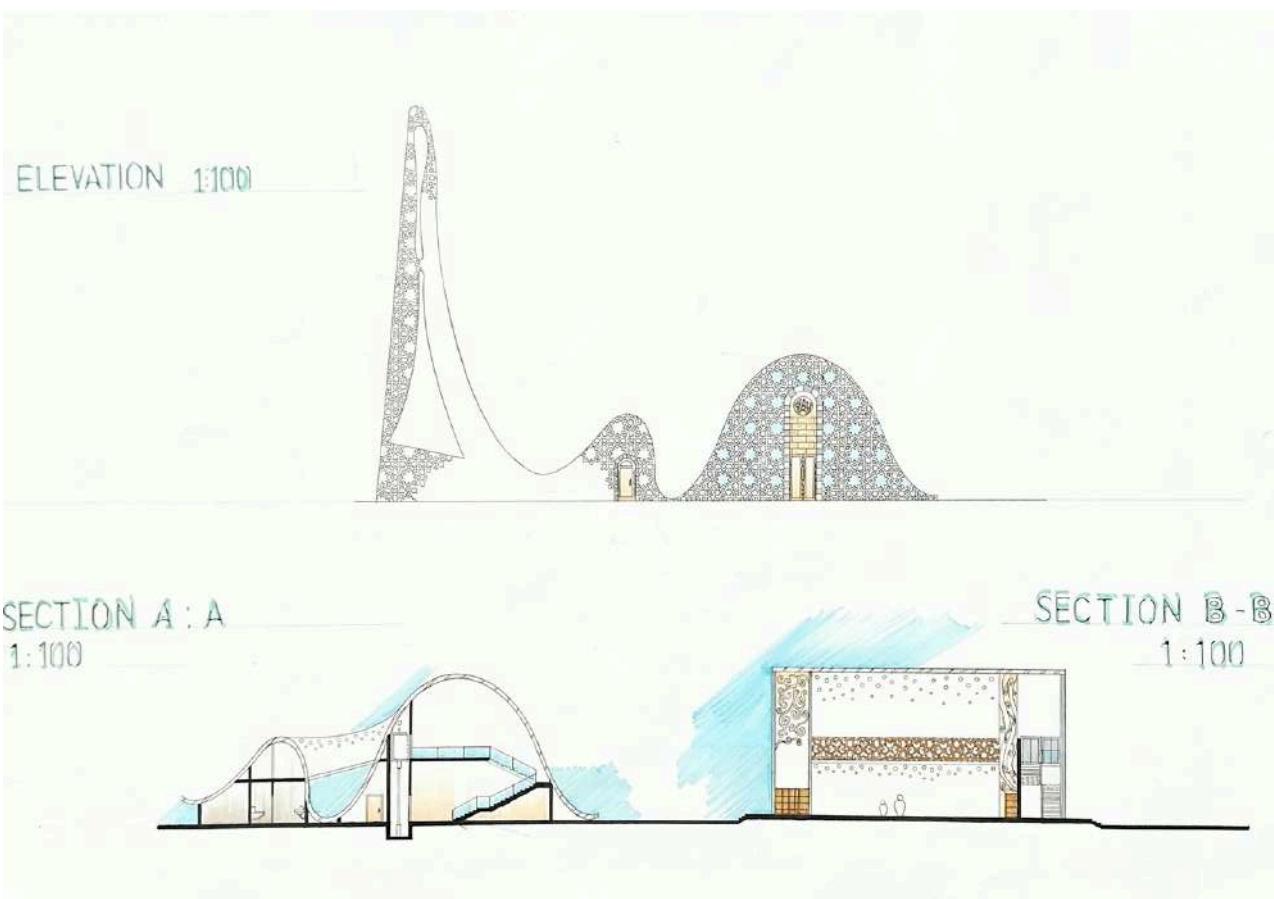


AREEJ ALKAHLOUT

CONCEPT

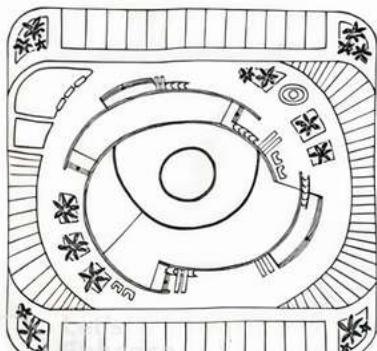
The design of the Red Sea Mosque is inspired by the calm and fluidity of the sea. The mass creating a sense of peace and tranquility. Just as a person casts their cares into the sea when contemplating it, experiencing comfort and inner connection, the mosque's design the same spiritual feeling experienced during prayer, as the worshipper casts his or her concerns into the hands of God.

FLOOR PLAN GROUND LEVEL 1:100

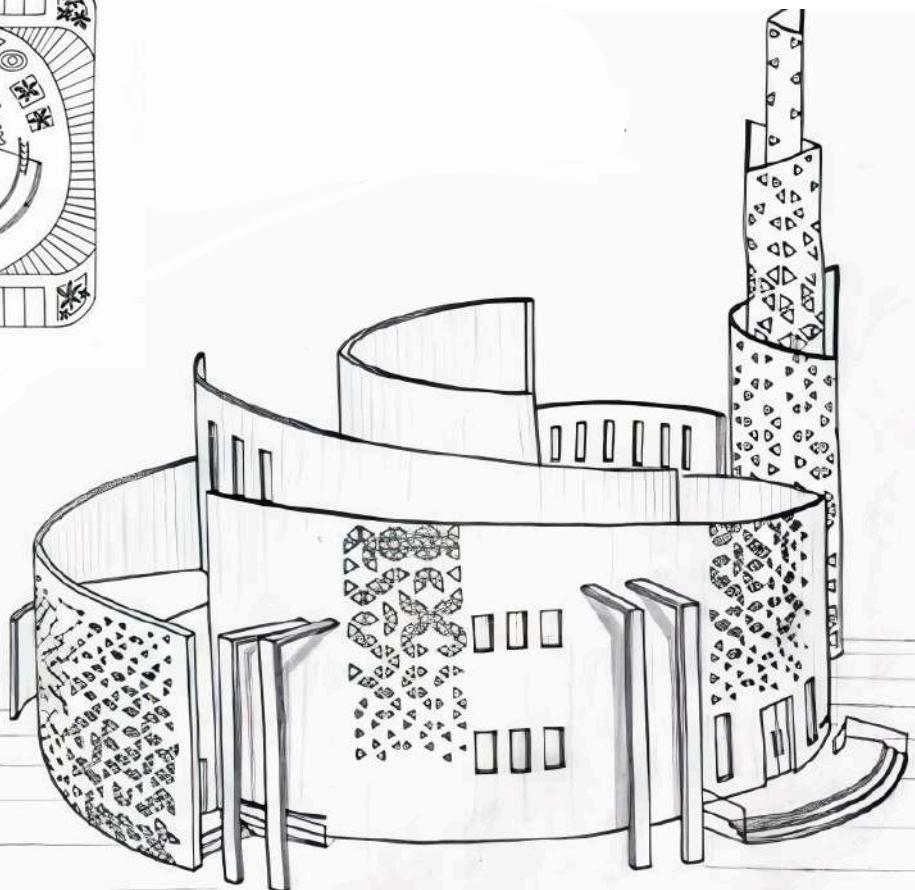


ARCH211: MOSQUE DESIGN

INSTRUCTOR: Mr. Anas Hussein



Site Plan

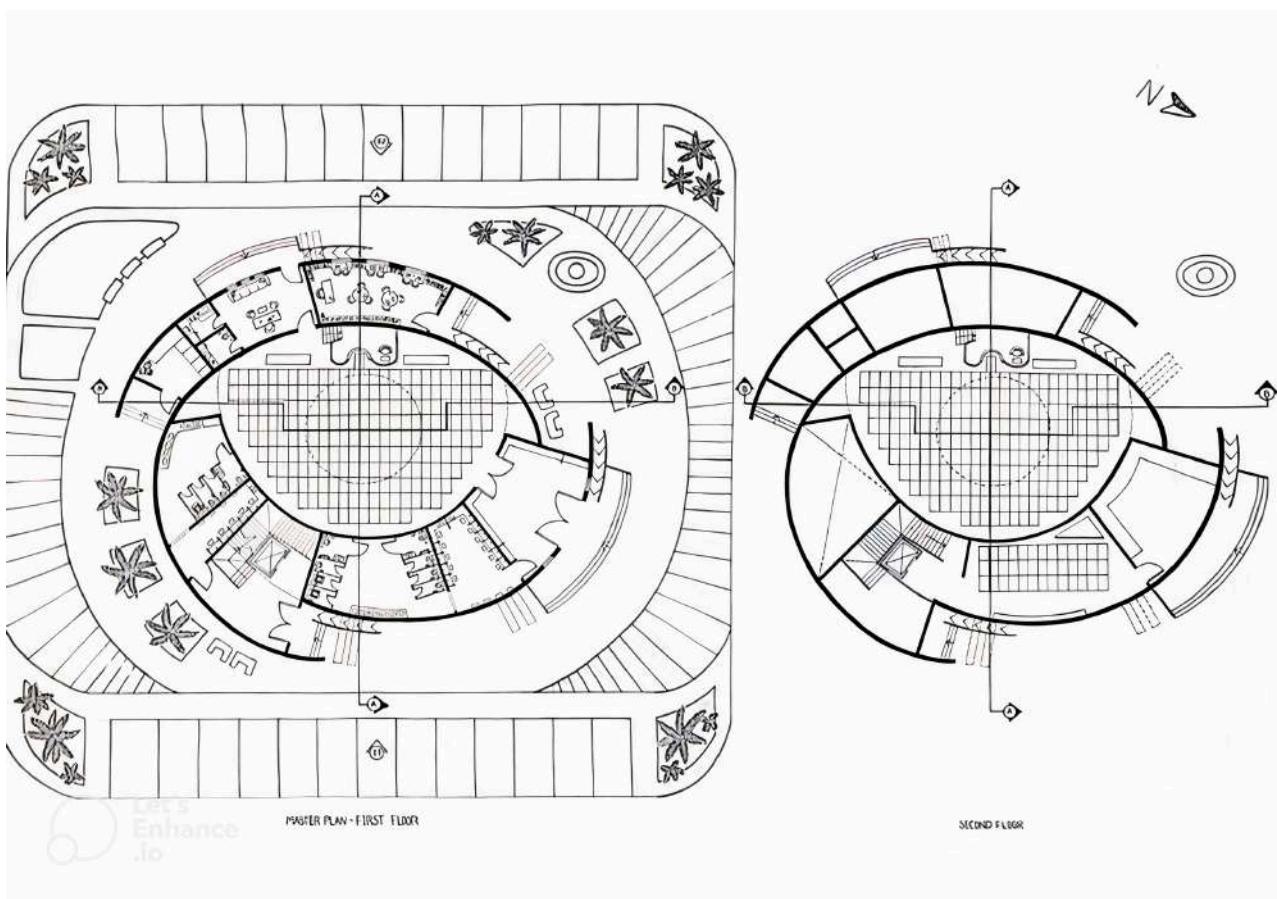
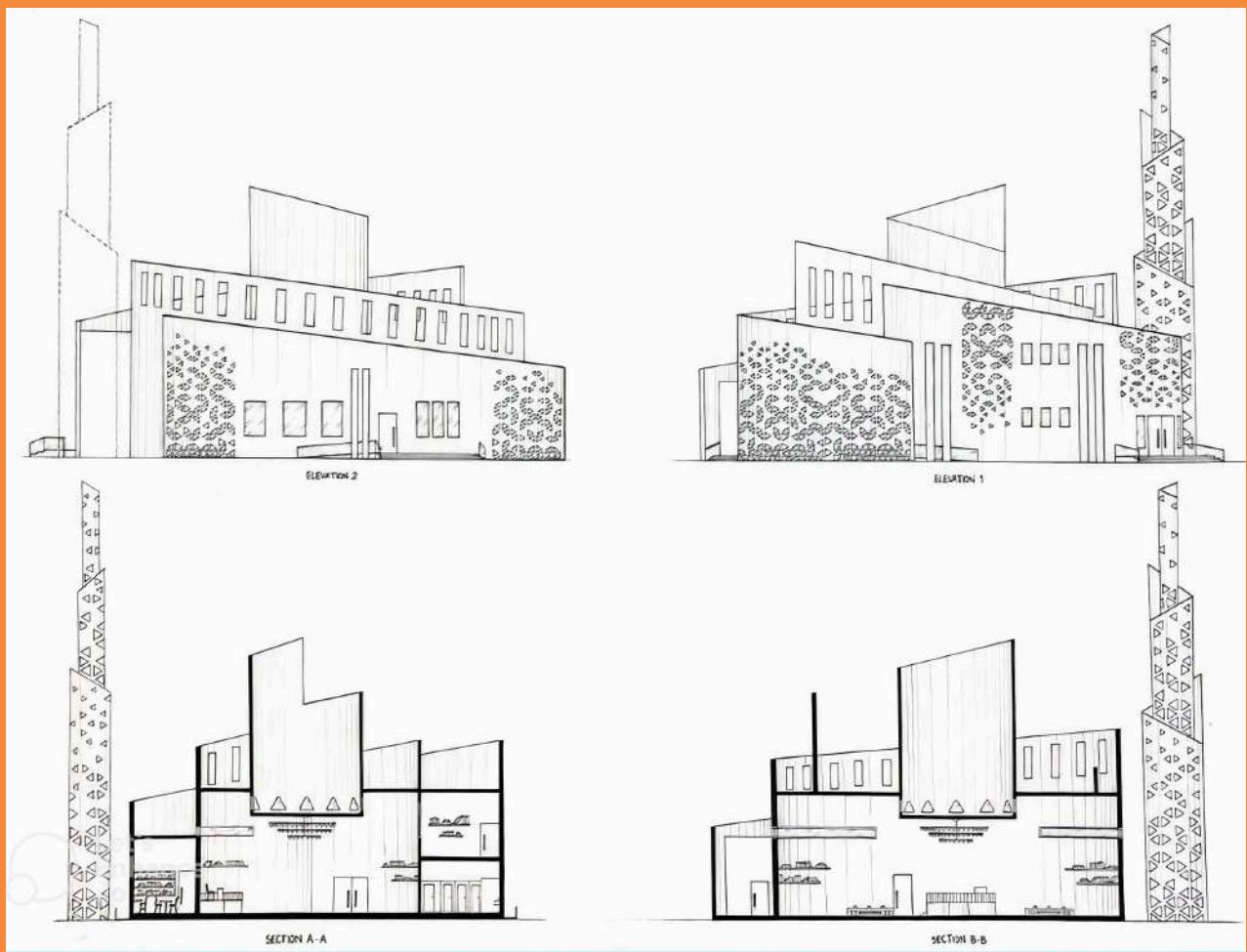


Perspective

SOHA ABO RAMADAN

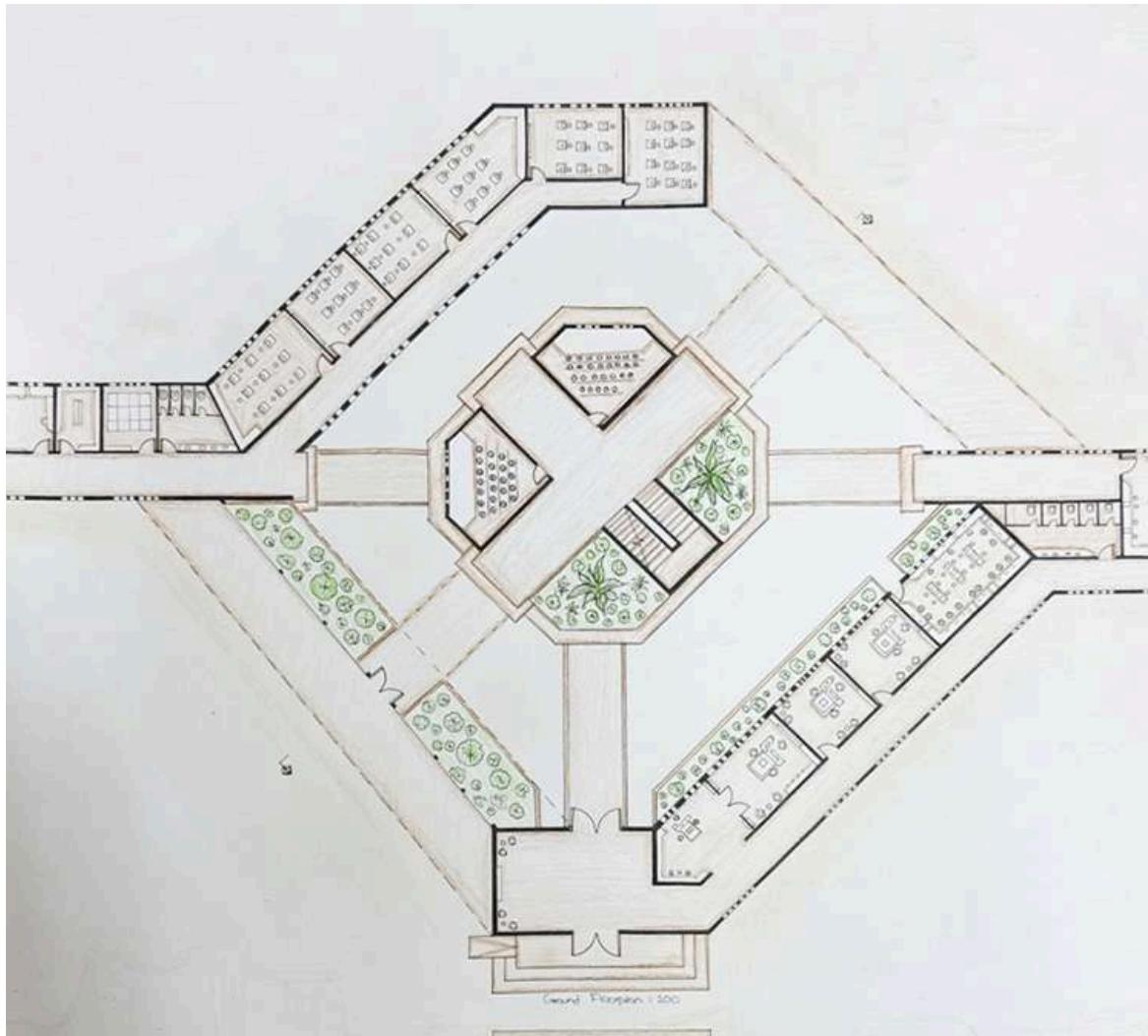
CONCEPT

The concept is inspired by the Kaaba as the ultimate focal point, symbolizing the shared journey of all Muslims in seeking Allah's mercy and guidance. People of all ages and backgrounds come together in devotion, each on their own spiritual path but united in purpose. This collective journey is expressed through sloped layers that rise gradually, symbolizing spiritual growth. The mosque embraces all, connecting worshippers with Allah and with one another.



ARCH211: SCHOOL DESIGN

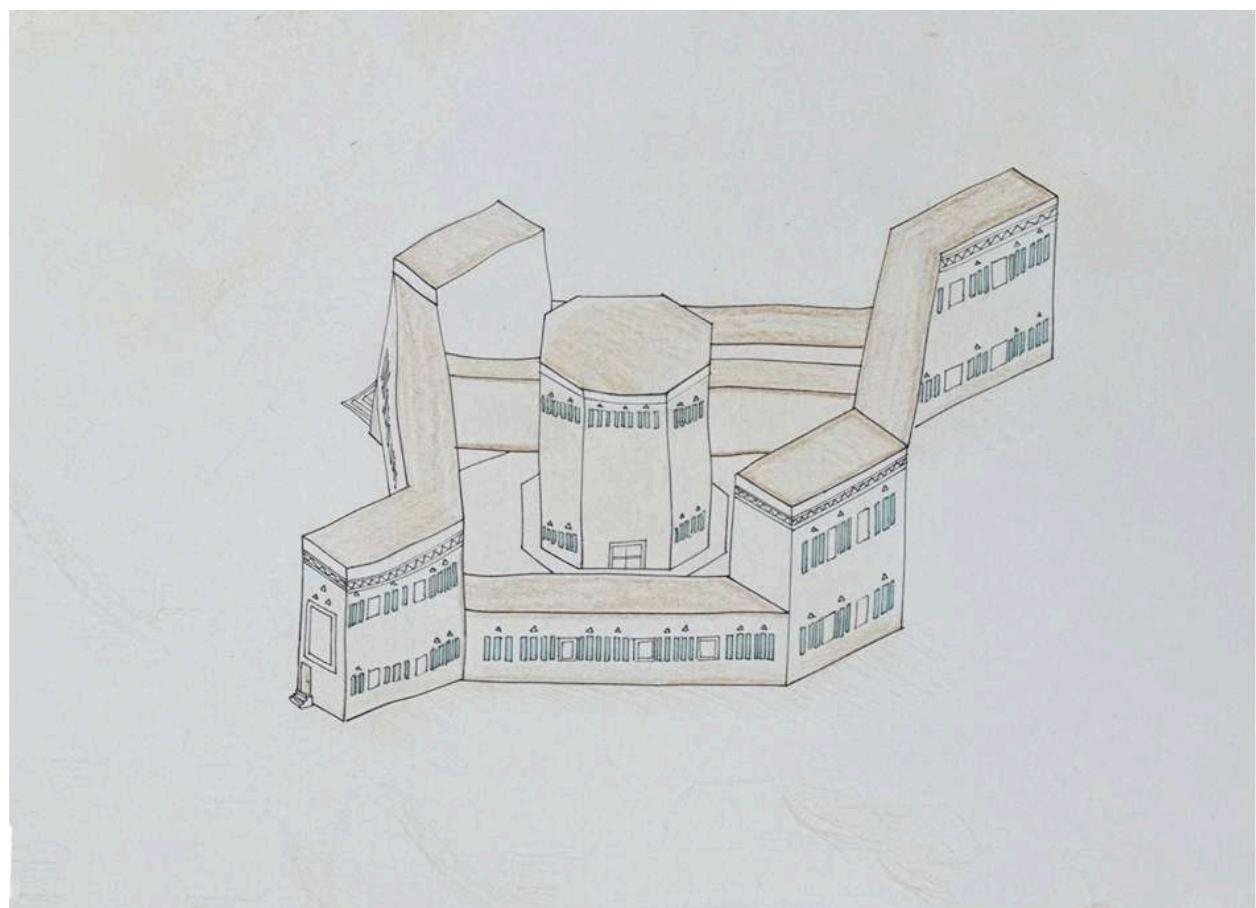
INSTRUCTOR: Dr.Ibrahim Abdelhady



LUJAIN ABDALAAL

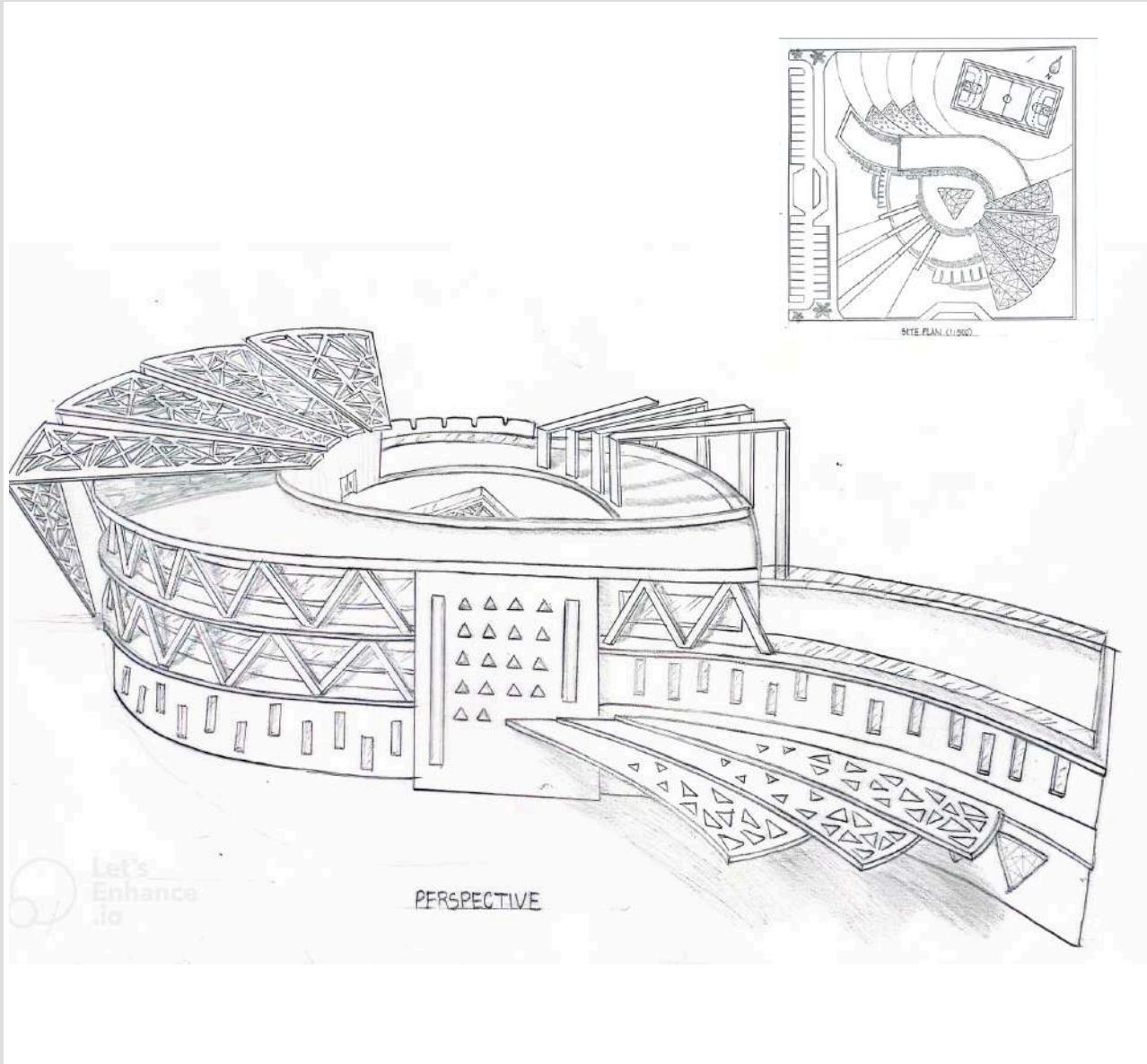
CONCEPT

The school design integrates Najdi architectural elements with Diriyah vectors to create a unique, sustainable style that reflects local culture and responds to the environment



ARCH211: SCHOOL DESIGN

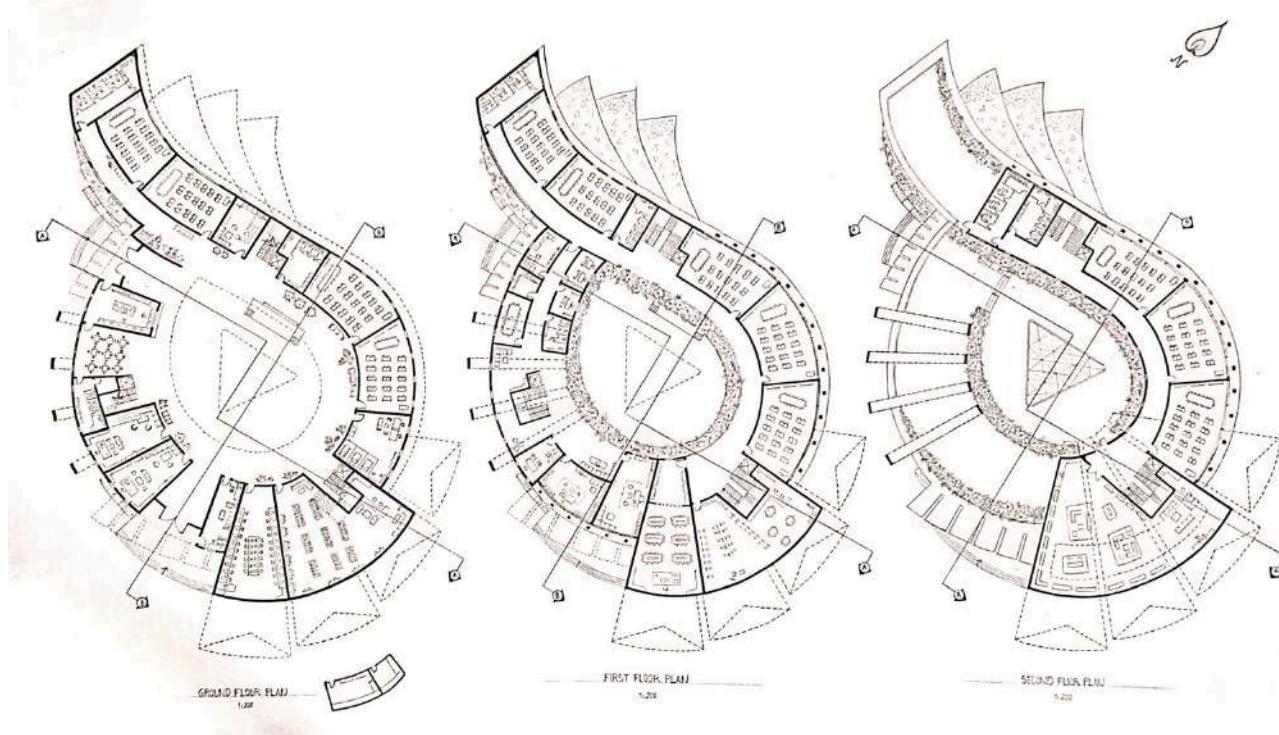
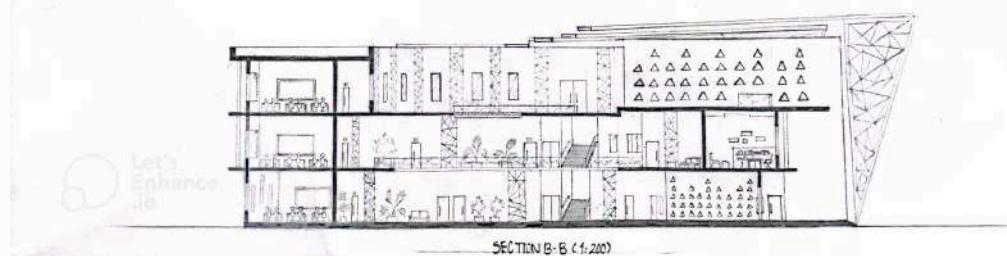
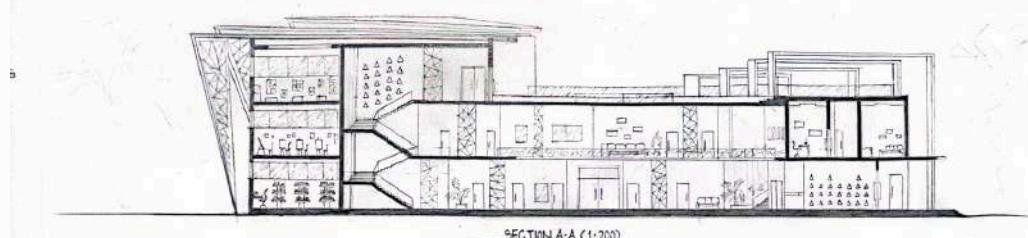
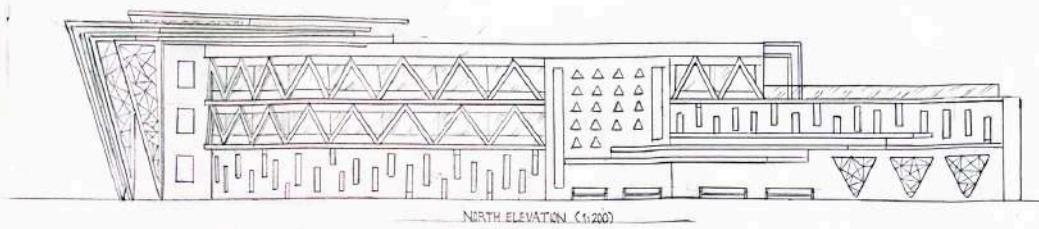
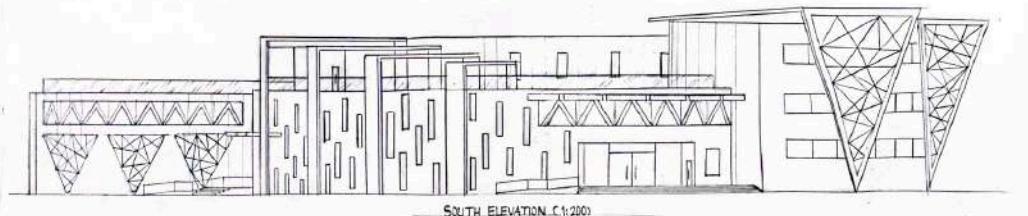
INSTRUCTOR: Mr. Anas Hussein



SOHA ABO RAMADAN

CONCEPT

The school is inspired by a flame, symbolizing the spark of curiosity that drives teenagers to explore and learn. Rooted in the Arabic saying "Knowledge is light and ignorance is darkness," the design embodies the transformative power of education. The form of the building echoes the organic, dynamic movement of a flame, representing the ever-growing pursuit of knowledge.



ARCH211: SCHOOL DESIGN

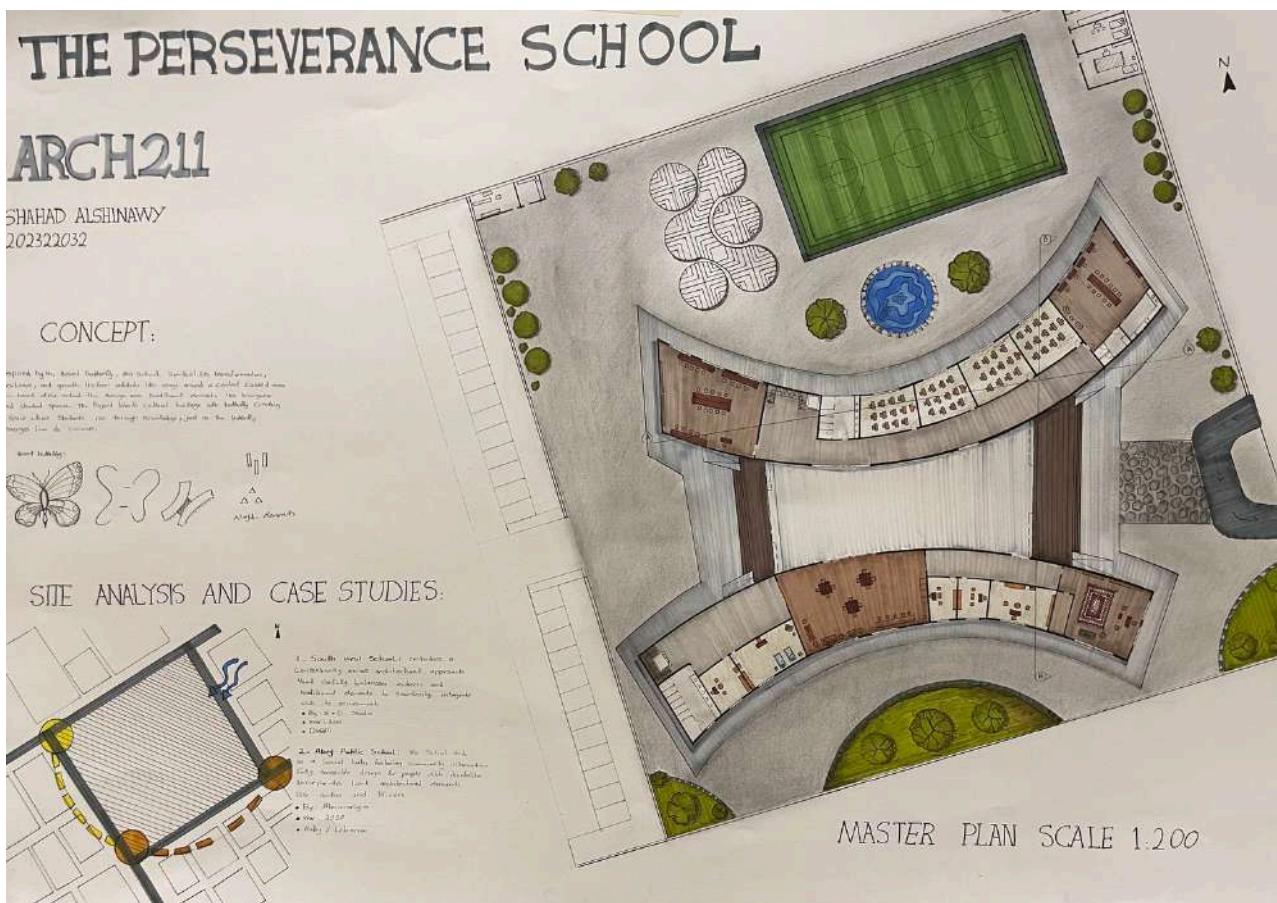
INSTRUCTOR: Mr. Anas Hussein



Shahad Alshinawy

CONCEPT

Inspired by the desert butterfly, this school symbolizes transformation, resilience and growth. Its form unfolds like wings around a central covered area the heart of the school. The design uses traditional elements like triangular and shaded spaces. The project blends cultural heritage with butterfly creating a space where students rise through knowledge, just as the butterfly emerges from its cocoon.



ARCH211: SCHOOL DESIGN

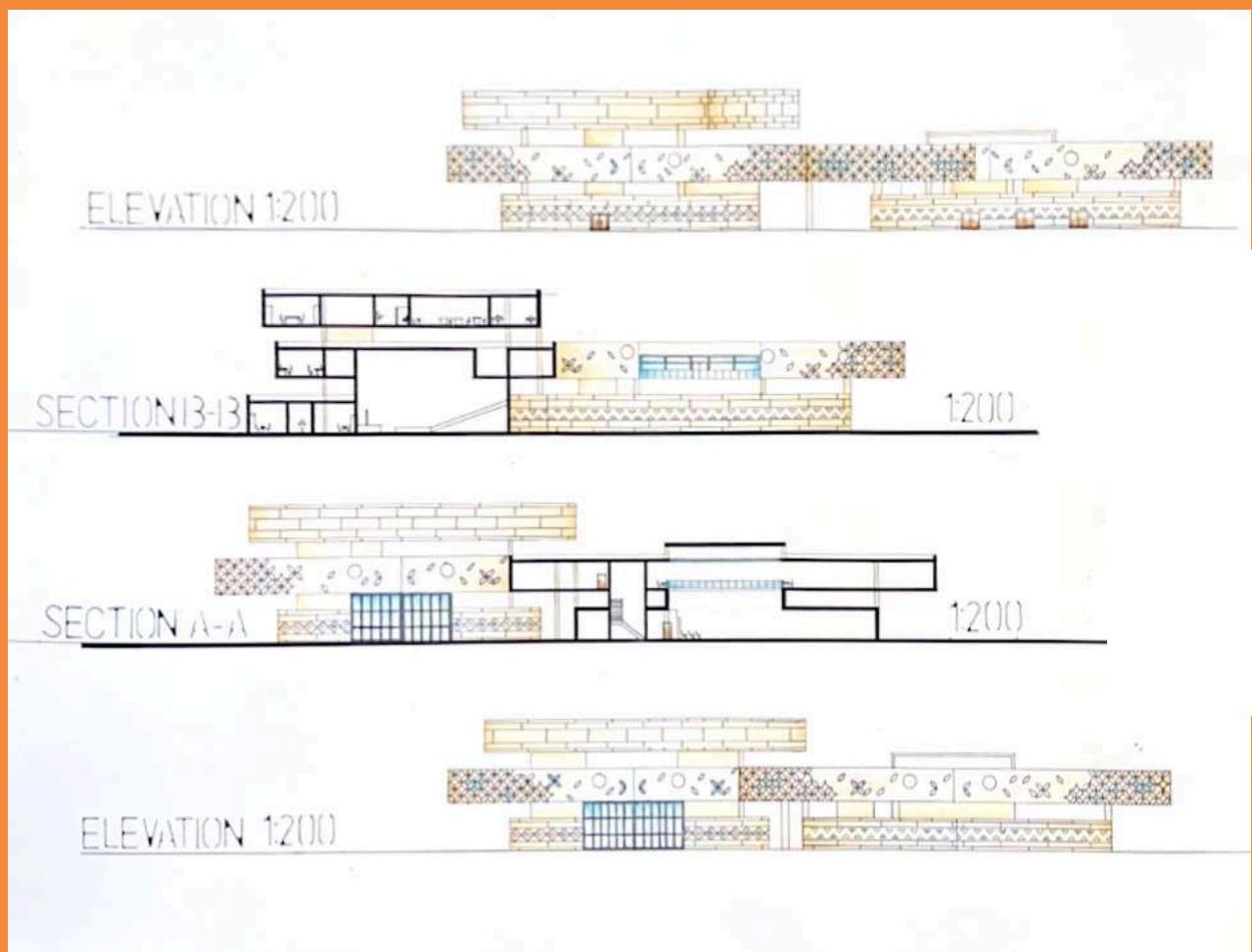
INSTRUCTOR: Ms.Esraa Samman



AREEJ ALKAHLOUT

CONCEPT

- INSPIRED BY THE TWO HEMISPHERES OF BRAIN: RIGHT CREATIVITY & LEFT-LOGIC I desined the two building to reflects this idea by their Functionality & Structure.
- The Space between them represnts "CORPUS CALLOSUM",The bridge in the brain that connect both hemispheres to create collab, as buildings appears
- The Orientation present, How school lead the student to future.



ARCH301: SMALL HOTEL

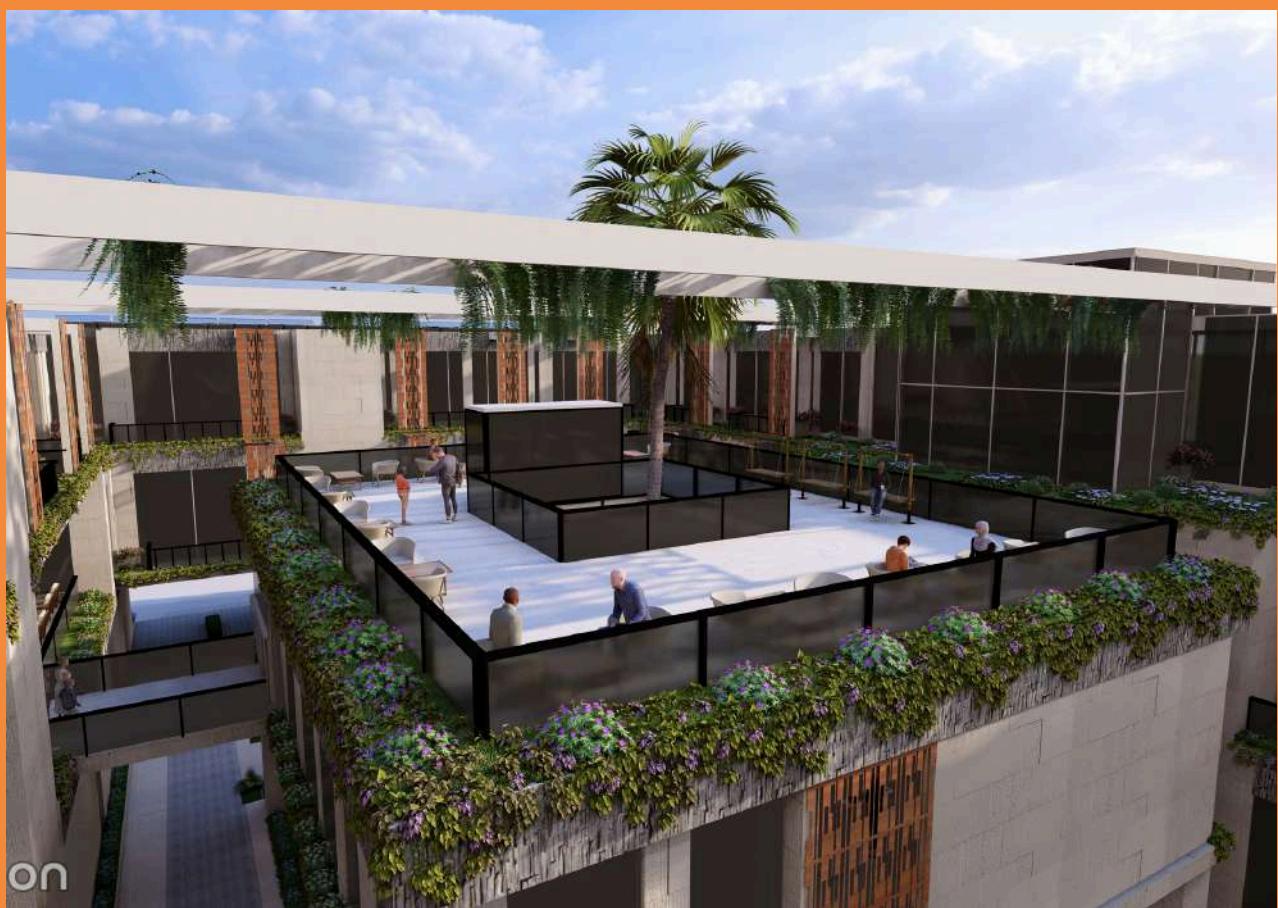
INSTRUCTOR: Ms.Noor Tayeh



SARA ALSAKKAF

CONCEPT

The serenity, enhancing the atmosphere, and enhancing the view of the courtyard, which serves as the focal point and which all of the room are directed toward, and giving them the user experience of a forest



ARCH301: SMALL HOTEL

INSTRUCTOR: Ms.Noor Tayeh



OLAA ELATTAR

CONCEPT

The concept is centered around cultivating a tranquil and welcoming atmosphere, not only for visitors but for the surrounding community as well. The design aims to foster a sense of connection through spatial planning and landscaping. The project's core emphasizes sustainability and environmental stewardship by incorporating passive cooling techniques to minimize energy consumption and to regulate the site's microclimate.



ARCH303: LANDSCAPE DESIGN

INSTRUCTOR: Ms.Sara Alansari



CONCEPT

Group Members:
Sham AlSheikh
Hamad, Sara
Bakalka, Rania
Rayyan, Lama
Sultan.

Lama Sultan

Al Nada district caters to families, professionals, and expatriates. It is one of the newer suburban areas that emerged as part of Riyadh's strategic urban planning to accommodate the growing population and provide modern amenities.

Our concept focuses on creating an interactive social space for people of all ages and backgrounds to enjoy, that takes into consideration the mental and physical well being of the user.



ARCH303: LANDSCAPE DESIGN

INSTRUCTOR: Ms.Sara Alansari



Fahad Ghoneim

CONCEPT

Group Members: Khalid Shaar, Mohammad Al-Sheikh, Assem Hamadah, Fahad Gh.

The IRIS Neighborhood Center prioritizes sustainability with locally sourced materials, energy-efficient design, and natural ventilation. It offers inclusive spaces for all ages, blending green areas with community-focused zones that reflect local heritage.



ARCH303: LANDSCAPE DESIGN

INSTRUCTOR: Ms.Sara Alansari



**Nour Alkhabbaz, Olaa Elattar,
Aya Abuelwafa, Lana Zreed**

CONCEPT

أكْرُ طرْفِي نَحْوَ نَجِي وَإِنْي
إِلَيْهِ-وَإِنْ لَمْ يَدْرِكِ الْطَرْفُ- أَنْظُرْ

حَنِيَّا إِلَى أَرْضِنْ كَأَنْ تُرَابَهَا
إِذَا مُطْرَتْ عَوْدُ وَمَسْكُ وَعَنَبَرْ

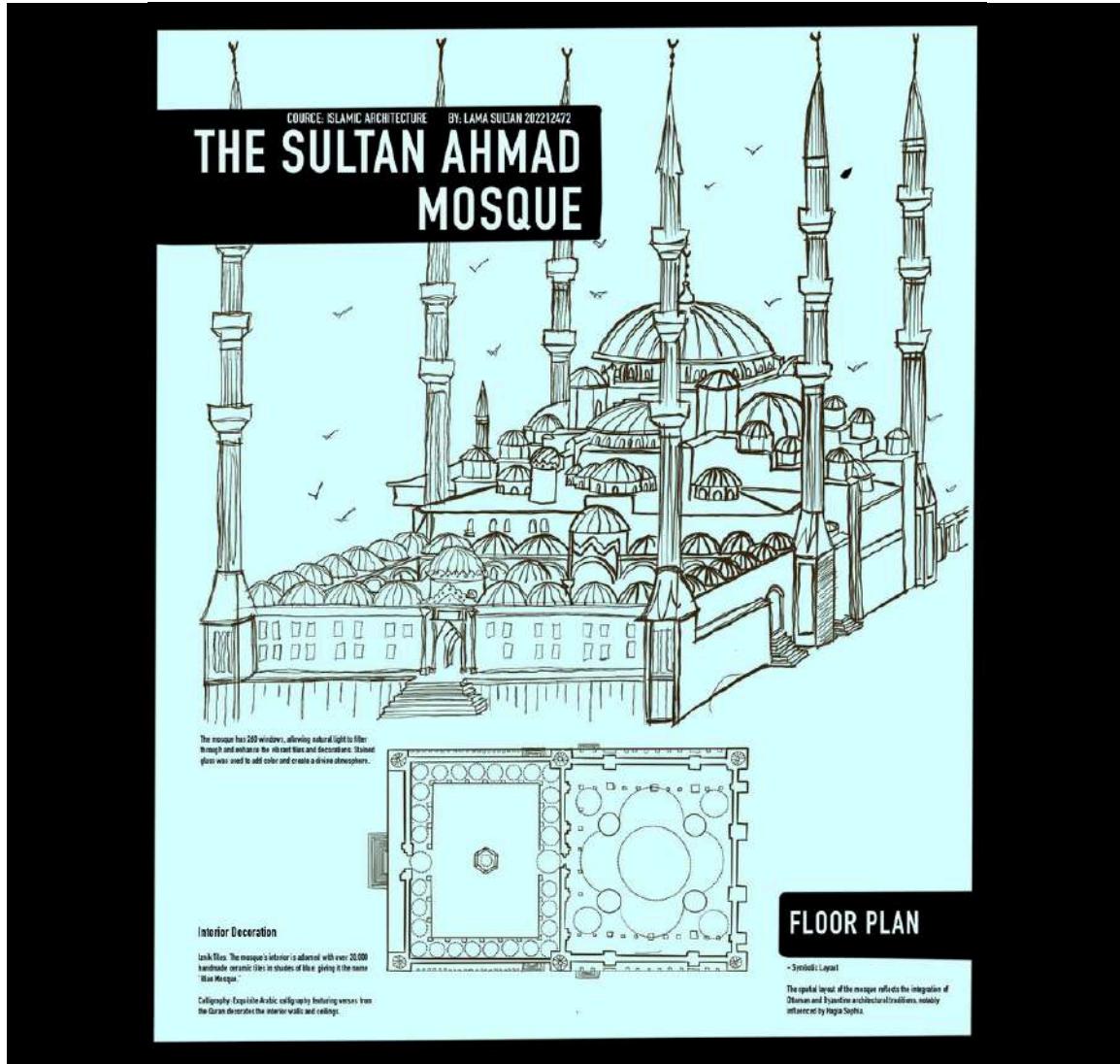
بَلَادُ كَأَنْ الْأَقْحَوَانَ بِرَوْضَه
وَنَوْرَ الْأَفَاحِي وَشَيْ بُرِدِ مُحَبَّرْ

The garden design, inspired by a poetic verse about the Najd region's natural beauty, uses Arabic calligraphy to create a spatial arrangement that harmonizes with the region's unique characteristics. The garden's layout incorporates elements from the poem, including terrain, flora, and light, to evoke the region's emotional and spiritual impact.



ARCH305: Islamic Architecture

INSTRUCTOR: Dr.Anwar Ibrahim



BRIEF

LAMA ALQAHTANI

The mosque is the most significant architectural building in Islam, serving as a place of worship, community gathering, and education. Islamic mosques across the world exhibit a wide range of architectural styles, reflecting regional, historical, and cultural influences. In this assignment, students will research and create Architectural Sketches of one of five different historic mosques that represent diverse Islamic architectural traditions. The goal is to understand the key architectural features, spatial design, and cultural contexts of each mosque while applying design and construction skills in building models

ELEMENTS

Type: Pendentive Dome

This type of dome is supported by four massive piers and transitions from a square base to a circular shape using pendentives. Size: Approximately 23.5 meters in diameter and 43 meters high at the center. Purpose: Provides a grand and spacious central space.

2 Semi-Domes:

Type: Half Domes (also called conches)

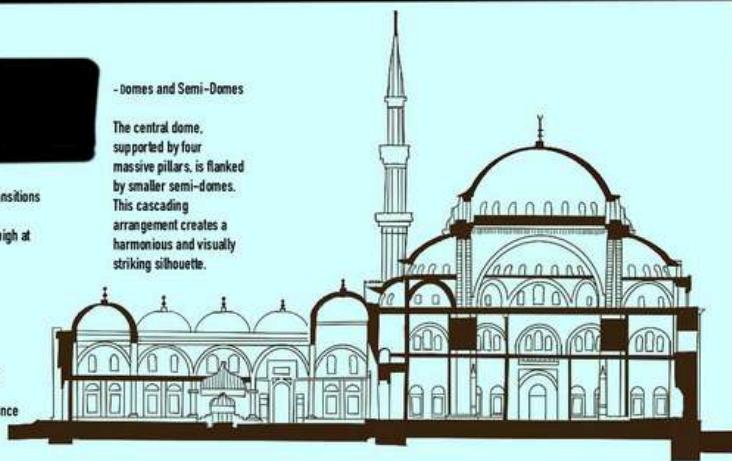
Located on the four sides of the central dome, these provide structural support and create a cascading effect. Function: Distribute the weight of the central dome and enhance visual symmetry.

3 Smaller Domes:

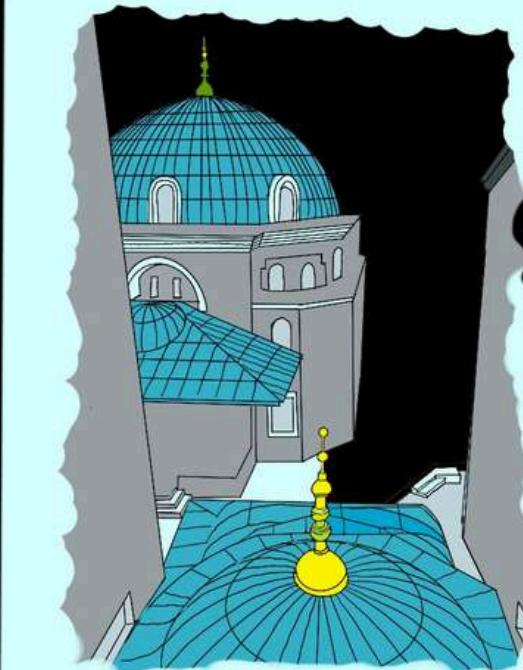
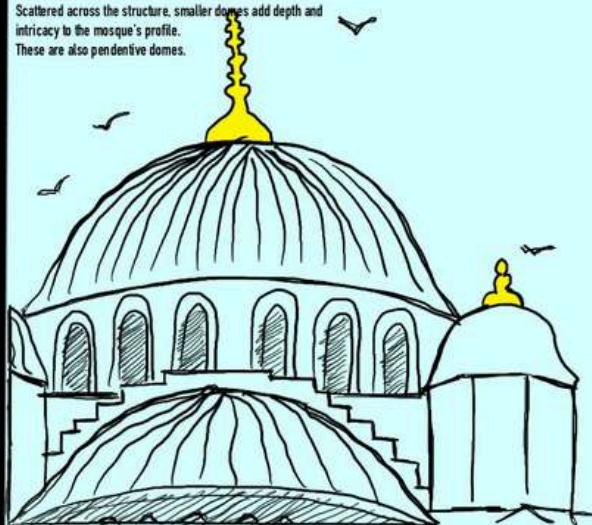
Scattered across the structure, smaller domes add depth and intricacy to the mosque's profile. These are also pendentive domes.

- Domes and Semi-Domes

The central dome, supported by four massive pillars, is flanked by smaller semi-domes. This cascading arrangement creates a harmonious and visually striking silhouette.



SECTION



ELEMENTS

- Minarets

The mosque features six minarets, which was a distinctive feature when it was built, as most mosques typically had four or fewer minarets. The design caused controversy at the time because the Haram Mosque in Mecca also had six minarets, prompting an additional minaret to be added there.

1 Ottoman Minarets

Shape: Slim, pencil-shaped minarets typical of Ottoman architecture.

Details:

Each of the six minarets is adorned with balconies (perefe) for the call to prayer (adhan).

The minarets are capped with decorative finials.

2 Arrangement:

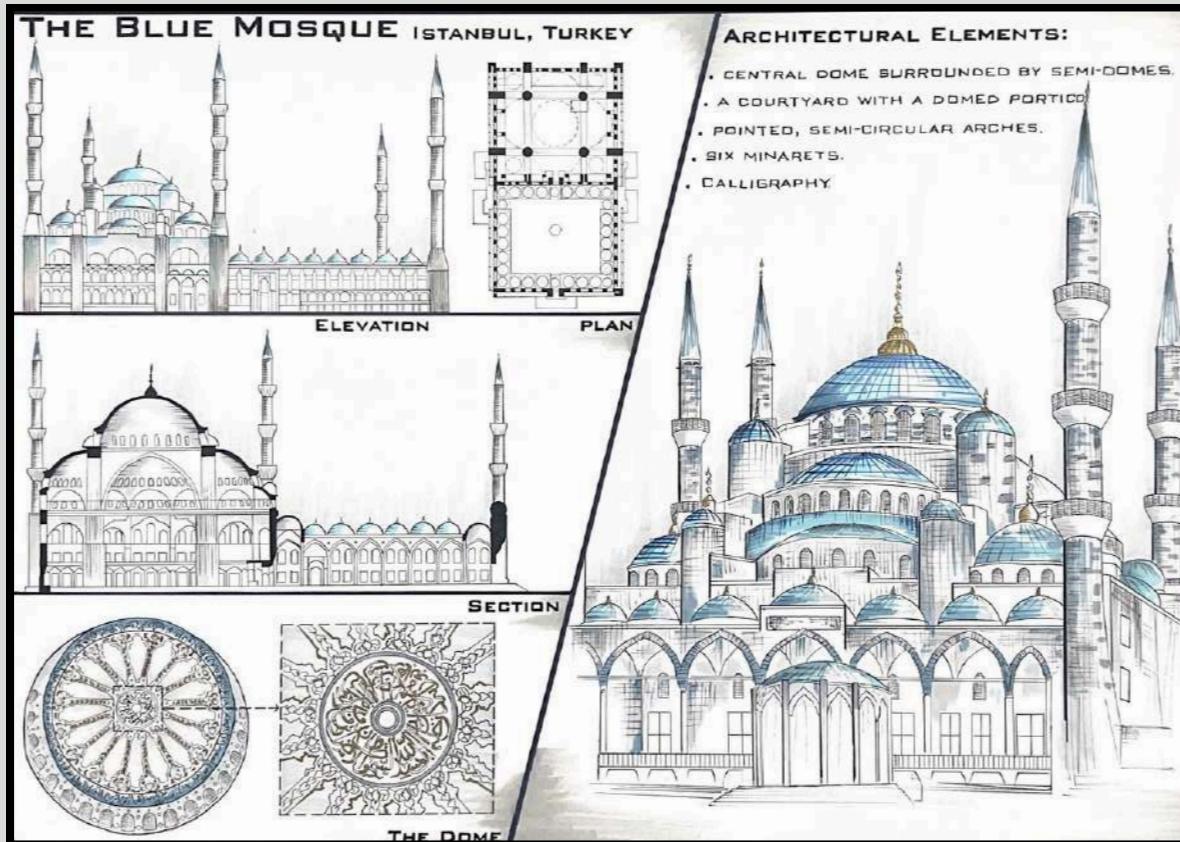
Four minarets are placed at the mosque's corners, and two are located at the outer corners of the courtyard.

This layout enhances the mosque's symmetry and visual grandeur.

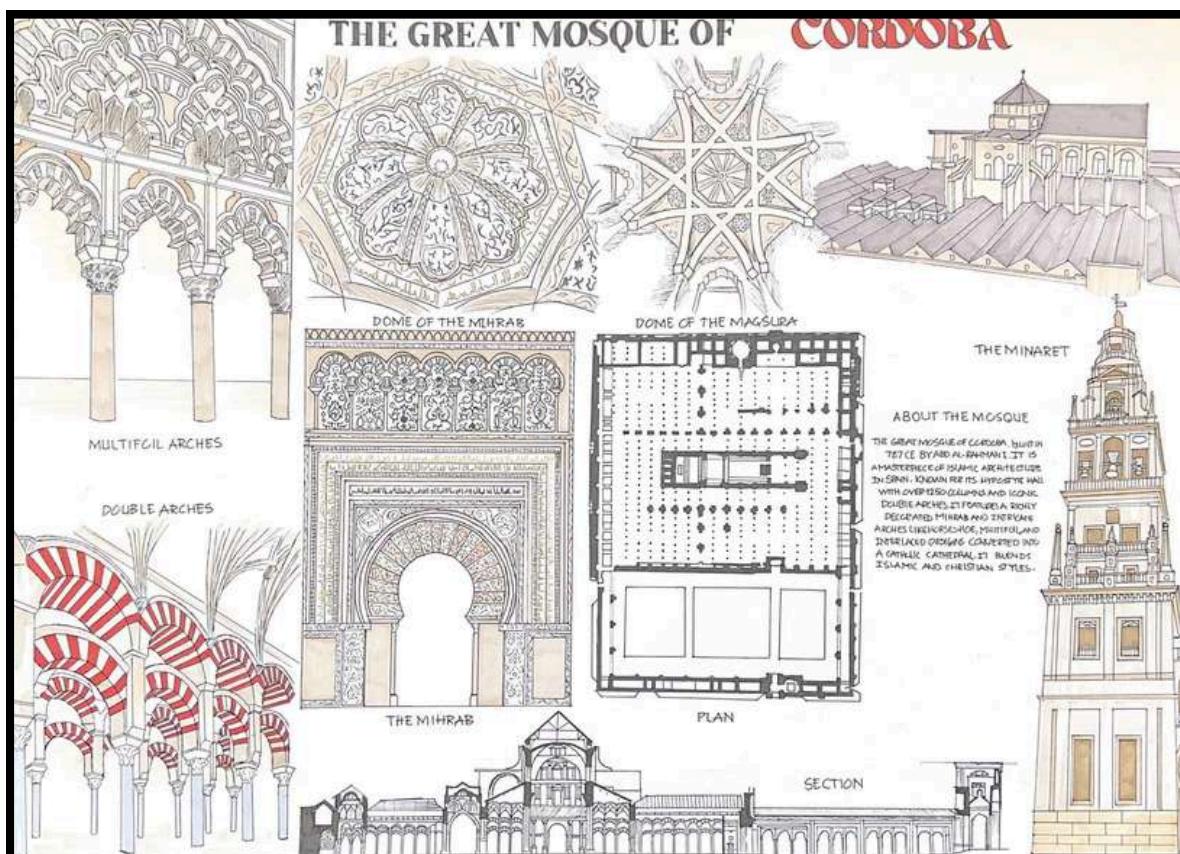


ARCH305: Islamic Architecture

INSTRUCTOR: Dr.Anwar Ibrahim



NOUR KHABBAZ



The artt behiind the fframe

By : Reema Alrajhi 202112043



the entrance decoore and the secret passage

Kimyona is a restaurant in riyadh saudi arabia. An architectural hidden gem. In a somewhat abandoned

residential building there is a restaurant named kimyona meaning the strange and the unusual. Which fits the location and the theme of the restaurant. The entrance walls covered in art behind one of them is a secret passage taking you to the actual art that is the dining room. The dining room resembles the photographers dark room. Dark interiors couples with dimmed lights contained in a glass brick walls. The materials used in the restaurant create contrast and texture. Decor colours limited in the use of black white and red creating a unique feeling of warmth and neutrality.



the view from the outside



the dining area



glass brick walls enclosing the space



the design of the wc



metal sheets hanging inspired by the photos hung in a photographers dark room



a glimpse of the kitchen window



souvenirs handed to every costumer

ARC A422:

ARCHITECTURAL
CREATION

83

Dr. Anwar ibrahim

ARCH311: OFFICE TOWER

INSTRUCTOR: Dr.Rahma Doheim

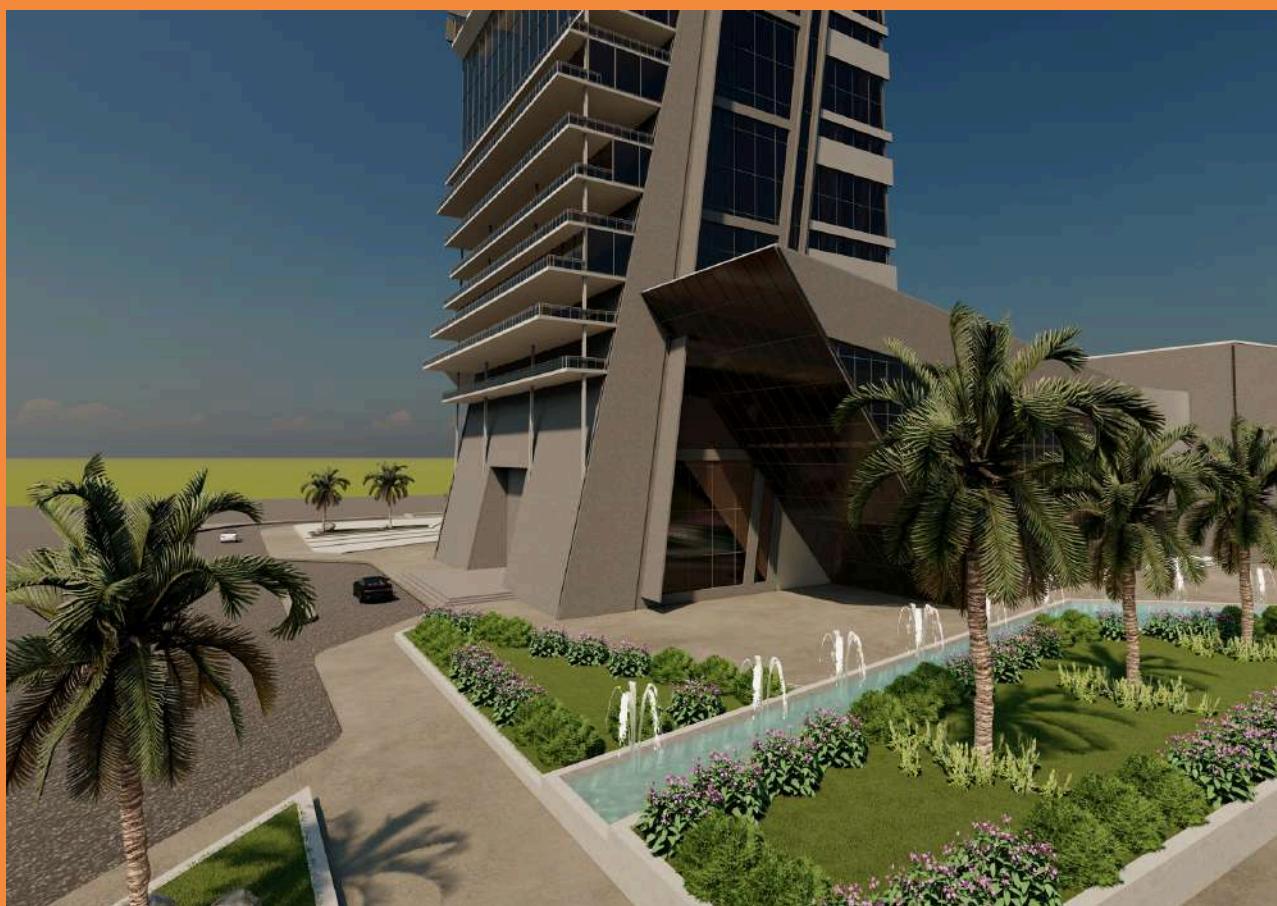


NOUR ALKHABBAZ

CONCEPT

The design employs a broken tower form with an exposed structural skeleton to enhance stability, circulation, and visual identity. A tripartite podium emphasizes main entrances and integrates seamlessly with the tower.

A ramp and varied balconies enrich user experience and workplace comfort.



ARCH311: OFFICE TOWER

INSTRUCTOR: Dr.Rahma Doheim



MOADA ABDELAZIZ

CONCEPT

The Solstice Tower mitigates wind-induced forces through its aerodynamic form, enhancing structural stability and occupant comfort. Inspired by the sun's seasonal movement, it balances stability and dynamism with responsive shading and natural curves.



ARCH311: OFFICE TOWER

INSTRUCTOR: Mr. Abdullah Elshafie



FAHAD GHONEIM

*Project Ourovia:
The Living Loop*

FROM "OUROBOROS" - SYMBOL OF INFINITY & REGENERATION + "VIA" - LATIN FOR PATH/WAY

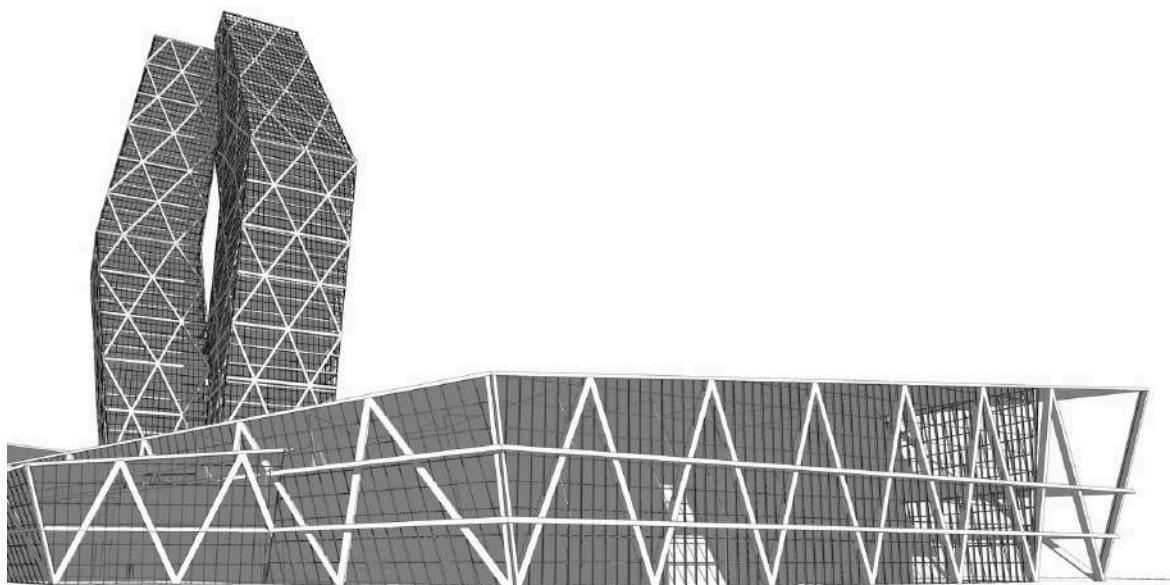
CONCEPT

Ourovia is a visionary urban landmark where architecture mimics life. Inspired by the cyclical nature of mitosis and the boundless flow of infinity, the project merges a soaring tower and sprawling mall into a single living system. The tower's continuous loop form symbolizes endless growth and renewal, while the mall's branching, cellular geometry reflects organic division and interconnectivity — a spatial metaphor for human interaction and evolution.



ARCH311: OFFICE TOWER

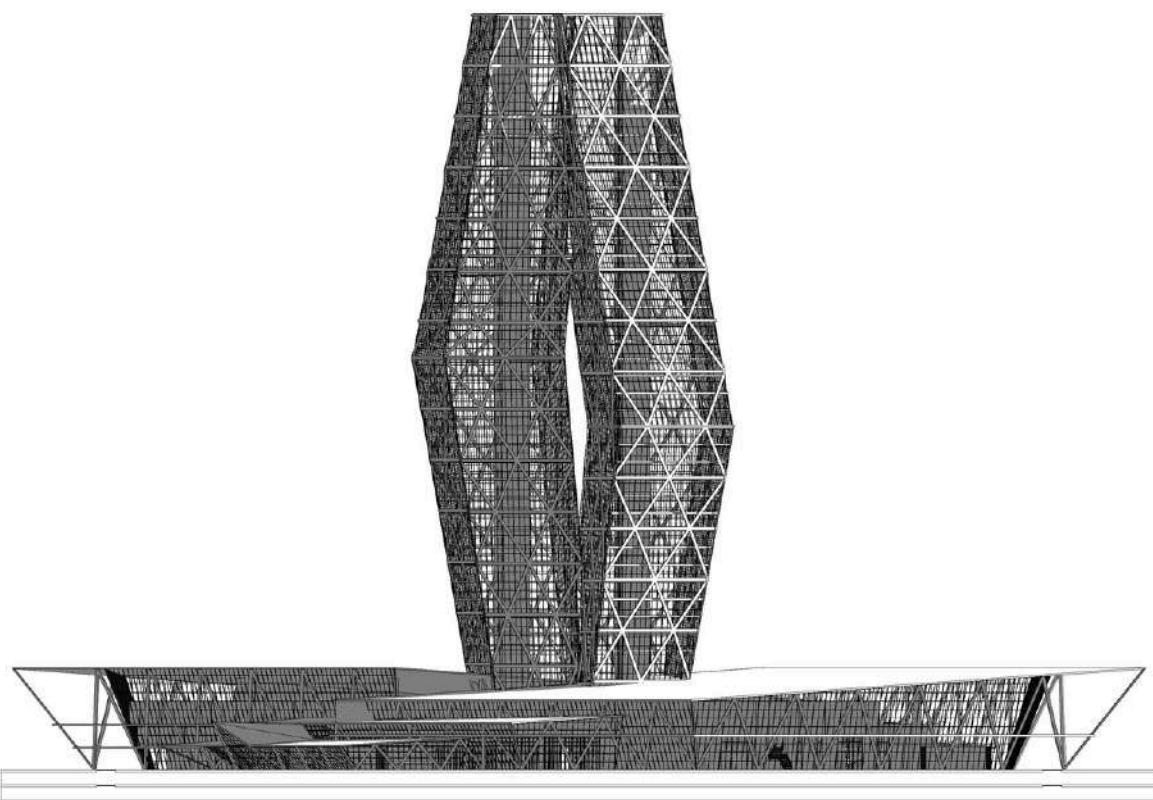
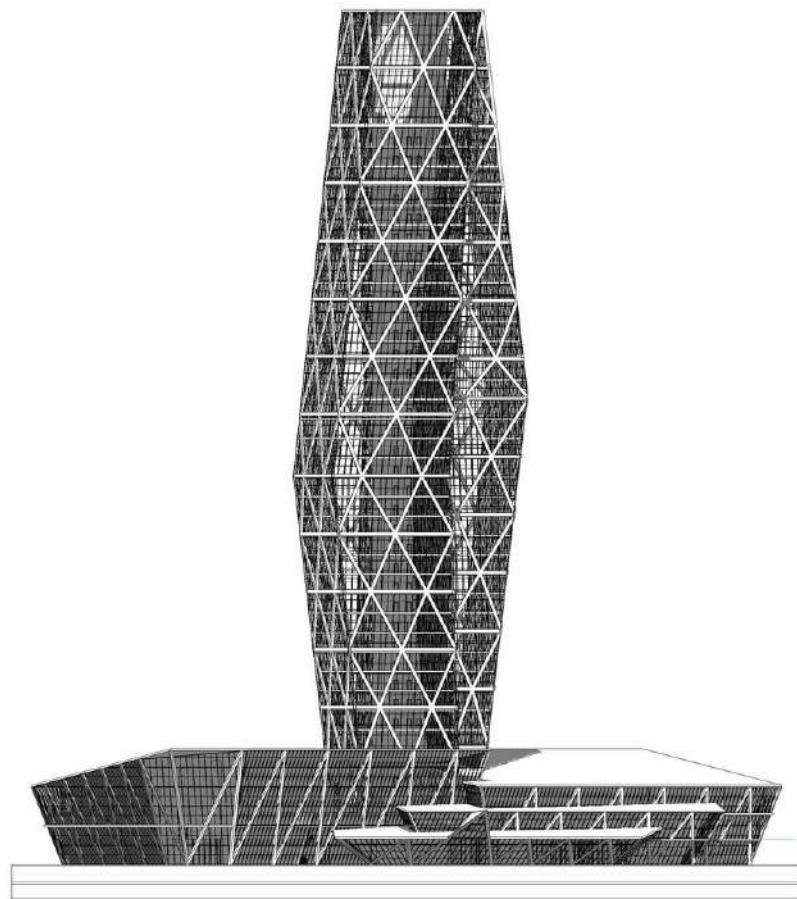
INSTRUCTOR: Mr. Abdullah Elshafie



KHALID SHAAR PROJECT AXON

CONCEPT

This project uses fractal geometry to infuse architecture with life, flexibility, and meaning. Inspired by natural patterns, it evolves from a simple module into a system that adapts to users and surroundings. Balancing efficiency with moments of connection, the design aligns with environmental rhythms, shielding noise, embracing quiet, and supporting natural flow. Built-in flexibility ensures spaces grow with changing needs, creating a responsive, human, and memorable experience.



ARCH311: OFFICE TOWER

INSTRUCTOR: Mr.Abdullah Elshafie



OLAA ELATTAR

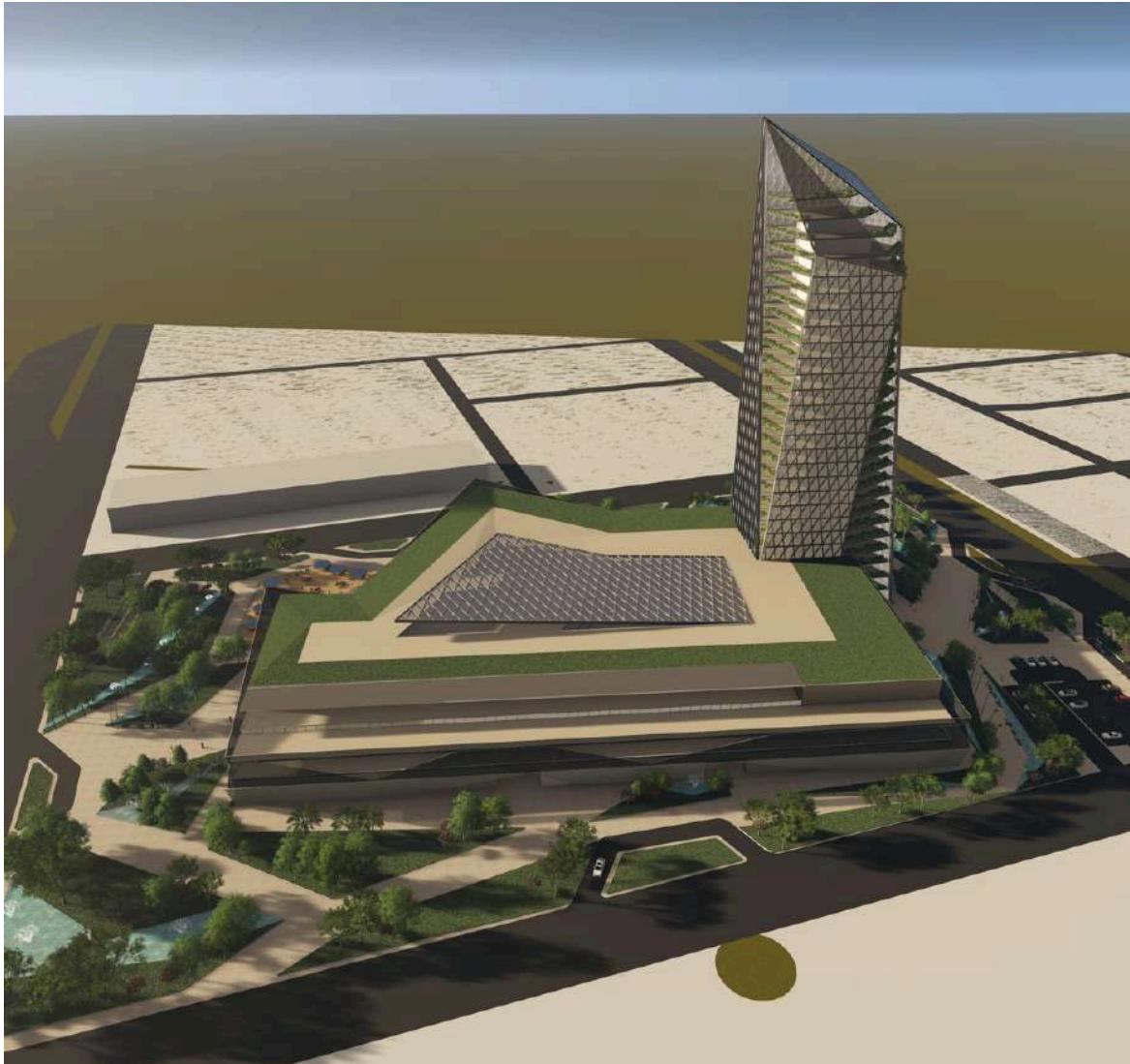
CONCEPT

Combines structural aesthetics with greenery, while fostering community connections between different fields and community. The design merges architecture and nature, creating a visually stunning and environmentally conscious space. It fosters community connections, bridging diverse fields



ARCH311: OFFICE TOWER

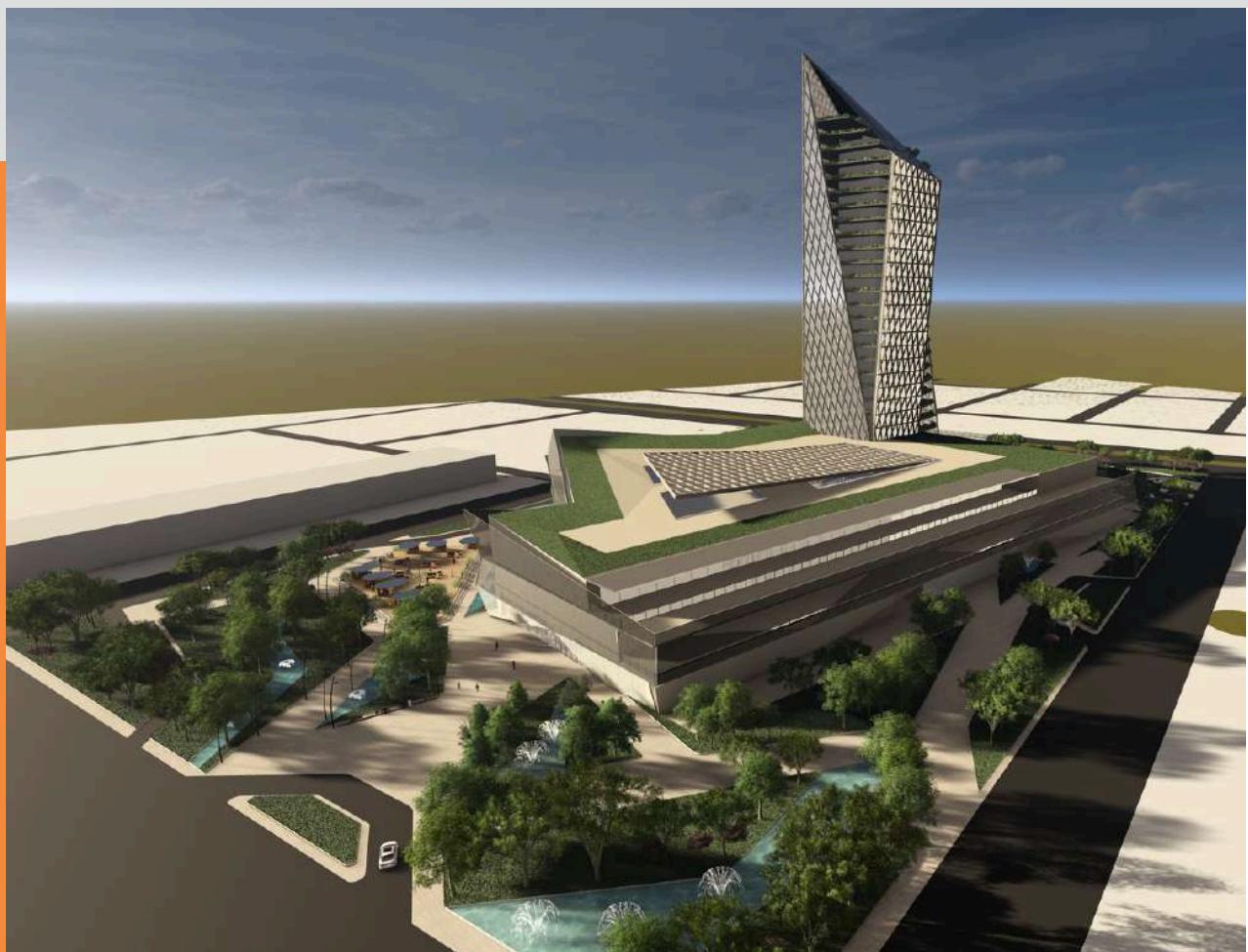
INSTRUCTOR: Mr. Abdullah Elshafie



AYA ABUELWAFA

CONCEPT

The Shifting Prism symbolizes the evolving relationship between structure, movement, and human interaction. The twisting geometry reflects urban transformation while enhancing views, ventilation, and integrated greenery. Angular design represents the city's ongoing transformation —structured yet adaptable.



ARCH401: BUSINESS INCUBATOR

INSTRUCTOR: Mr.Abdullah Elshafie



CONCEPT

Amirah Alshammari

• NATURE AS INSPIRATION



TOPOGRAPHY

ADDITIVE

I IMPLEMENTED AN ADDITION PROCESS TO CREATE THE UPPER LEVELS AND APPLY JORN UTZON'S CONCEPT OF CLOSENESS TO GOD.

• RESPECT (CONTEXT)

WE RESPECTED THE SITE, CONSIDERING IT IS IN A HOT REGION AND REFLECTS ISLAMIC CULTURE, AND I APPLIED...

(SHADED , COURTYARD SLANTED WALL)

• LIGHT AND SPASE

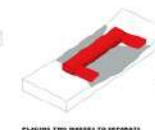
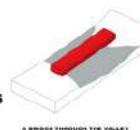
INDIRECTLIGHT

WHEN THE WALLS TILTED, THE LIGHT ENTERED TO CREATE AN EXPERIENCE AND CONNECT PEOPLE TO THE ENVIRONMENT.



JOURNEY

THROUGH THE RAMP, A JOURNEY TO THE EXHIBITION IS CREATED BY HARMONIZING ARCHITECTURAL DESIGN WITH THE NATURAL ENVIRONMENT.

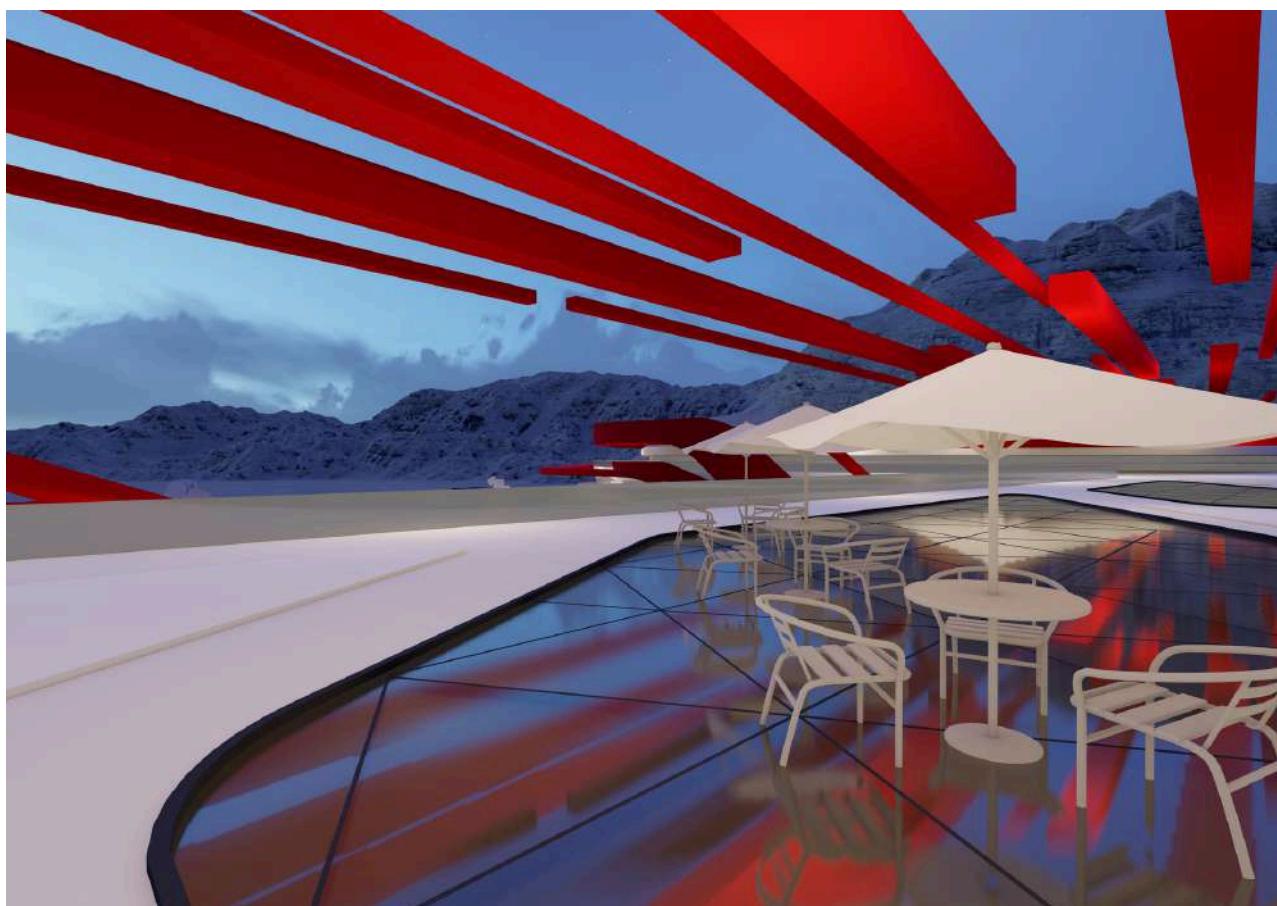


A BRIDGE THROUGH THE VALLEY

PLACING TWO MIRRORS TO SEPARATE THE THEATER FROM THE LABS

ADDITION PROCESS TO CREATE THE UPPER LEVELS

REDUCING THE HALLS SMALLER AND CREATING A PLACE AND A RAMP



ARCH401: BUSINESS INCUBATOR

INSTRUCTOR: Dr. Anwar Ibrahim

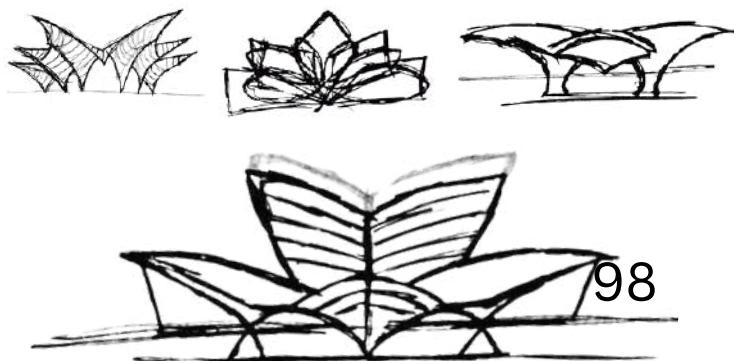


Mustafa Al-Habashi

Create a Landmark that support business activities & give confidence & safe environment & harmonious experience to the user by Applying the philosophy & ideology of Santiago Calatrava

CONCEPT

The form is abstracted from the shape of the Eagle





ARCH401: BUSINESS INCUBATOR

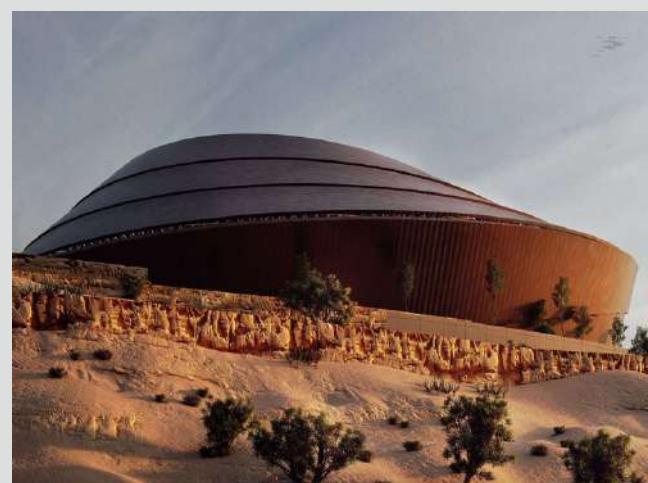
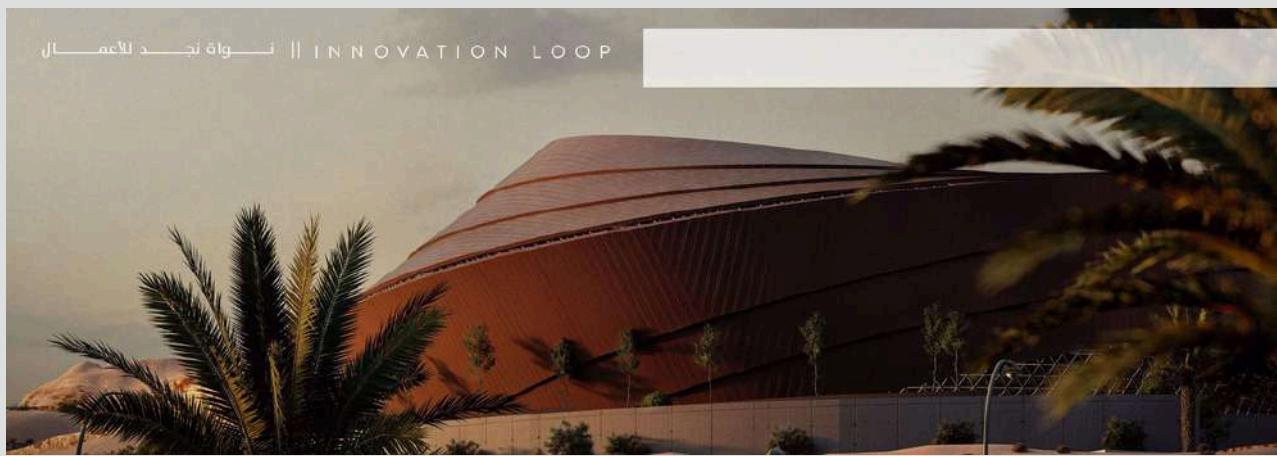
INSTRUCTOR: Dr.Mayas Taha



NOURH BAWAZIR

CONCEPT

This business incubator is a creative oasis, where entrepreneurs meet in an open, circular space inspired by nature, embodying the spirit of growth and collaboration.



ARCH402: LANDSCAPE DESIGN

INSTRUCTOR: Ms.Esraa Samman



Ali Abu sharar

CONCEPT

The idea behind the project is to solve the site's weather problems after studying them and applying Charles Jencks' design philosophy by representing the movement of the sun around itself and the movement of the planets around it at the same time to represent two shapes that almost meet each other



ARCH402: LANDSCAPE DESIGN

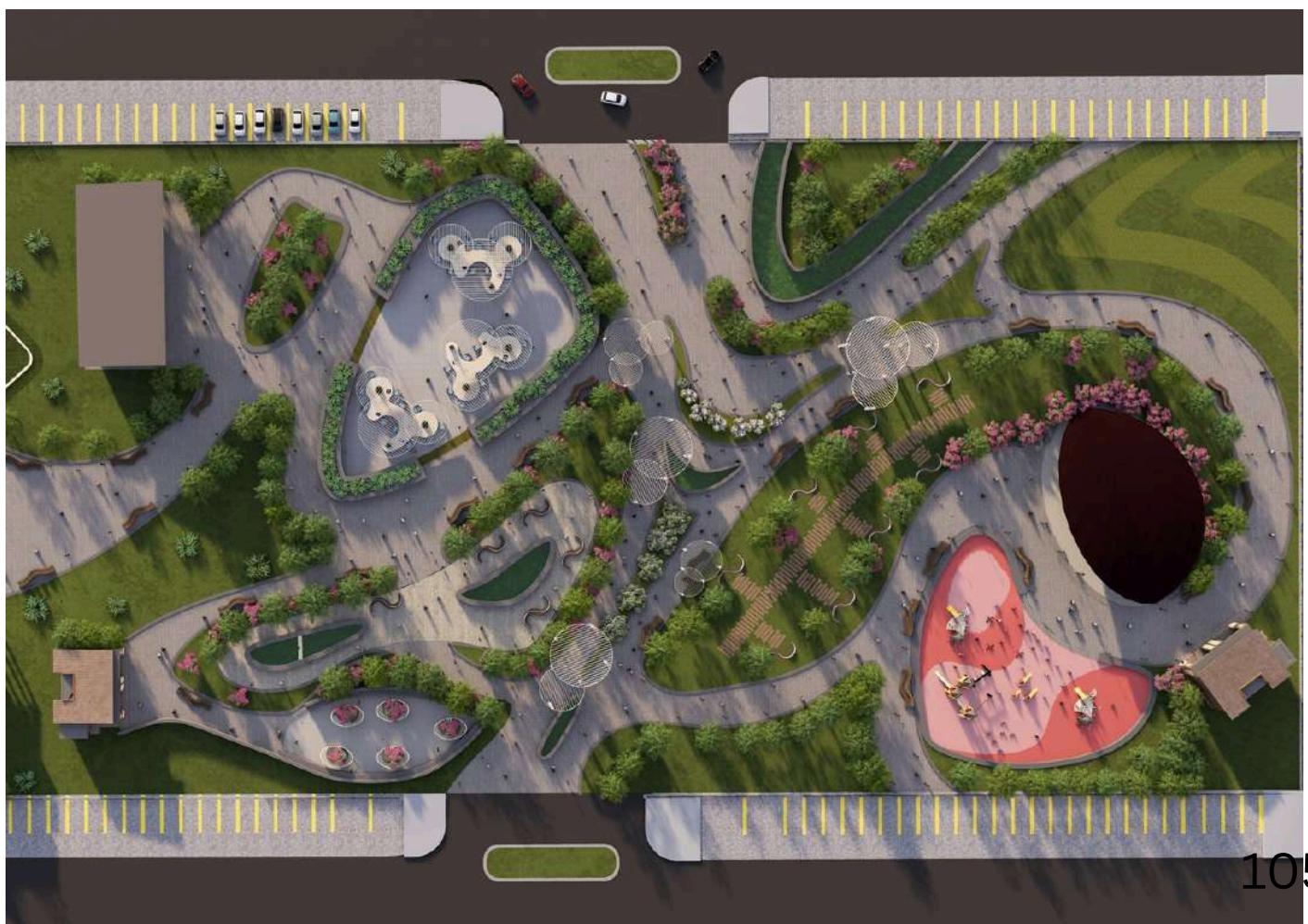
INSTRUCTOR: Ms.Esraa Samman



NADA BIN GUBAIR

CONCEPT

The redesign of AlFutah Park transforms it into a vibrant, inclusive space that blends nature, culture, and community. Inspired by layered experiential design, the park introduces shaded seating, interactive play zones, and water features, all connected through fluid pathways and soft elevation changes. The project enhances safety, comfort, and visual appeal reviving the park as a welcoming, multi-use destination for all ages.



ARCH411: HUMANIZATION ARTIRIAL STREET

INSTRUCTOR: Dr.Mayas Taha



NADA BIN GUBAIR- AMIRAH ALSHAMMARI

CONCEPT

This urban design elevates pedestrian spaces above street level, creating a vibrant plaza with green areas and activities while separating mobility flows. The curved route enhances the user experience within the site providing attractive atmosphere. The vertical circulation is located at each attractive spot within the site, like cafe, plaza, and parking.



ARCH411: MIXED USE BUILDING

INSTRUCTOR: Dr.Mayas Taha



NADA BIN GUBAIR

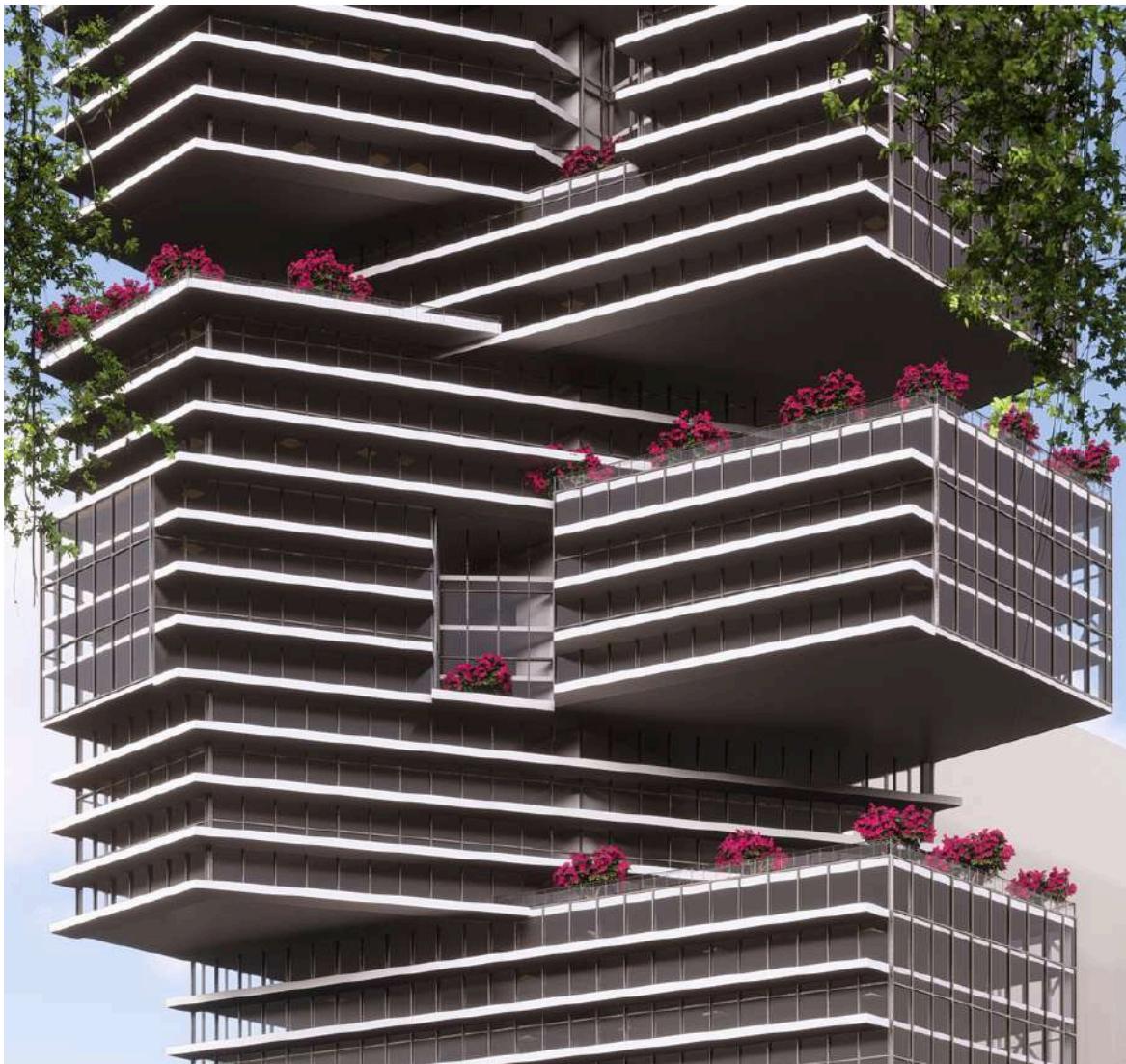
CONCEPT

Inspired by the fluidity of desert dunes, the design captures the natural motion of wind-swept sand. The structure emerges from the ground with layered curves that echo the landscape, gradually rising into a vertical form symbolizing growth and progress. It blends nature's elegance with a futuristic architectural language.



ARCH411: MIXED USE BUILDING

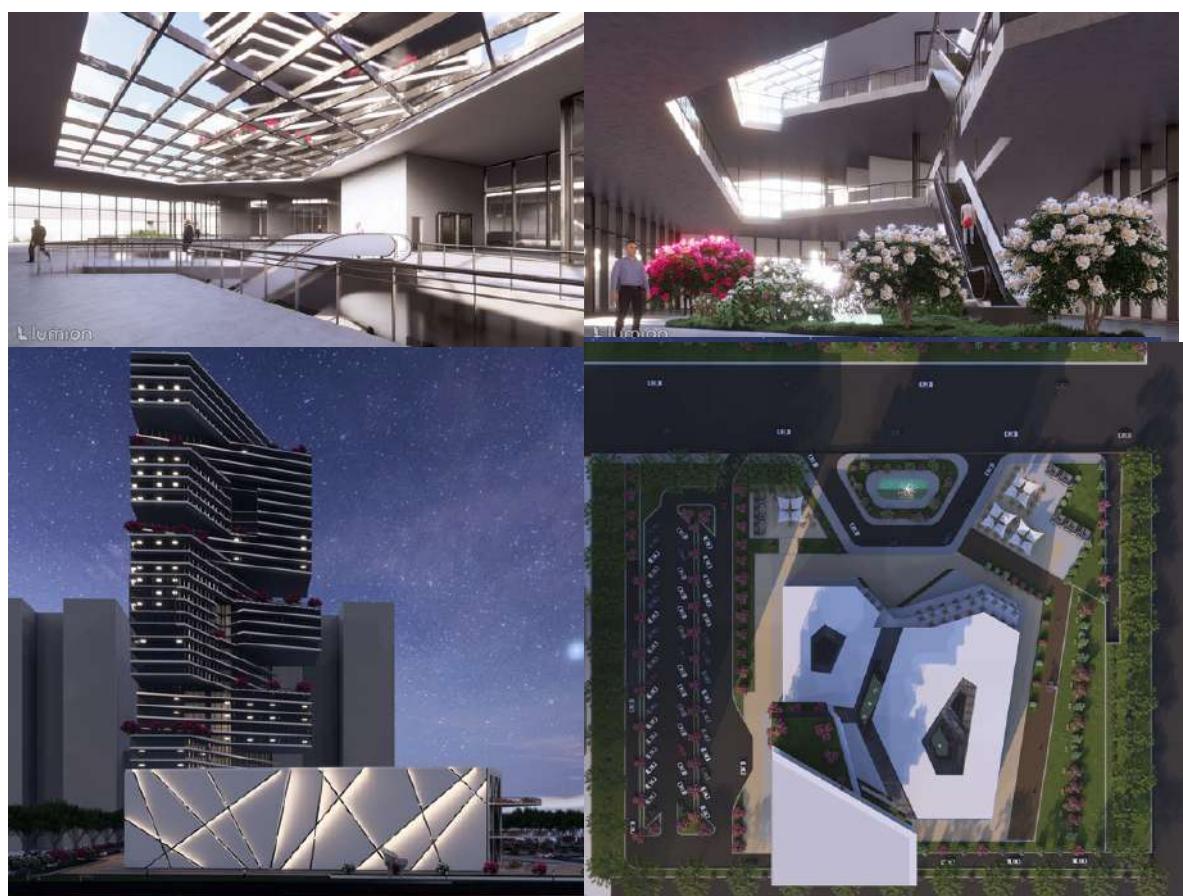
INSTRUCTOR: Dr.Mayas Taha



AMIRAH ALSHAMMARI

CONCEPT

The design concept is inspired from stone cracked to create 3 different space. At the same time, it is attractive Using Vertical Urban Flow to make spaces that create a view, privacy and successful environment.



ARCH412: DISTRICT CENTER

INSTRUCTOR: Dr.Alyaa Kamel



**ALI ABUSHARAR - KHALID ALBLAITEH
MUSTAFA ALHABASHI - ALI ALHERZ
ALBARA HAMADH**

CONCEPT

The idea behind the design is to represent the movement of the sun around itself and the movement of the planets around it at the same time, as there is a central area from which the landscape is divided to be the center of the neighborhood and in contrast with the rest of the neighborhood (organic lines)



ARCH412: DISTRICT CENTER

INSTRUCTOR: Dr.Rahma Doheim



**EHSAN SALEM - NADA BIN GUBAIR
SARAH ALSAHHAR - TAIF GHATHYAN
AMIRAH ALSHAMMARI**

CONCEPT

This district center reimagines public space as a vibrant, inclusive hub that fosters community, culture, and sustainability. Featuring an elevated bike path, green zones, and cultural spaces, the design enhances daily life while honoring heritage and modern needs. It's a place to play, pray, plant, and participate strengthening belonging and enriching Riyadh's urban experience.





ARC A422: ARCHITECTURAL CRITICISM

INSTRUCTOR: Mr. Anwar Ibrahim

Architecture
and
Belonging

Joud Aldakhil
202012123

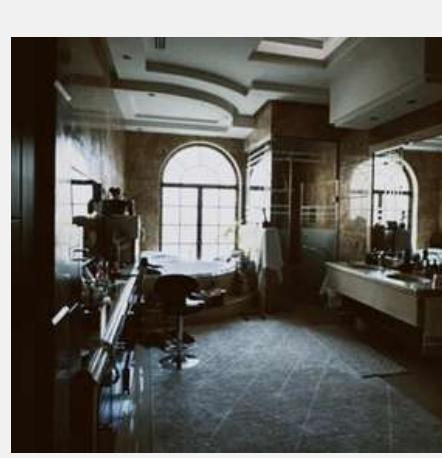
A PLACE TO CALL HOME



*"Corners of comfort,
carved by design."*



Residential architecture is more than walls and spaces; it is the framework for a family's sense of belonging, safety, and identity. Through thoughtful design, a house becomes a home; with the embrace of walls that have seen our happiest and hardest days, and the windows framing the world beyond.



"Spaces that grow within us."



A home's design isn't just about function; it's about the soul of a family, woven into every beam and brick, where hearts are at peace and memories take root.

The enLIGHTenment



The entrance of the cafe decorated with flowers & wooden panels

Wathbah Book and Coffee is located in Riyadh, Saudi Arabia. This cafe combines the love for reading and literature with the enjoyment of coffee. This photo essay highlights the relation between the natural lighting in the cafe and the books. The philosophy connecting natural light and enlightenment is that light symbolizes knowledge and clarity, and honesty. Just as natural light illuminates the world and spaces, enlightenment represents the illumination of the mind. In this cafe, the natural light floods through large windows, creating an inviting atmosphere.



People working and studying in front of The large windows that are illuminating the place.



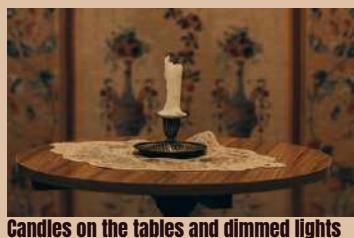
Mirrors in between the shelves with a horse saddle in front of it



Stairs decorated with pictures and quotes



Second floor overlooks the space. The decor alongside the light makes for a cozy view



Candles on the tables and dimmed lights



ARC501: E- SPORT ARENA

INSTRUCTOR: Mr.Anas Hussein



BAKR ALBAKR

CONCEPT

The building design, inspired by origami and the E-sports World Cup, features sharp triangles surrounding a central block, symbolizing the cup's triangular distribution. It is divided into four sections: administration, retail and restaurants, gaming arena, and support. The central gaming arena, the building's heart, highlights its primary role. The futuristic design reflects the high-tech essence of gaming.

Keywords: Origami, Futuristic, High-Tech, E-sports World Cup



ARC501: E- SPORTS ARENA

INSTRUCTOR: Mr. Anas Hussein



Raghad Abou Khater

CONCEPT

Designing an environment that enhances the E-sport arena experience for youth by integrating user experience with flowing, curved walls and promoting social interaction.

OBJECTIVES

- Create a Premier Gaming Venue
- Enhance User Experience
- Promote Social Interaction
- Offer Diverse Amenities



ARC501: E-SPORT ARENA

INSTRUCTOR: Dr. Majdi Alkhresheh



AHMAD RACHWANI

CONCEPT

The concept behind the design is that the formation of the three varying-height masses reflects the spirit of competition, which is the essence of esports.

The central mass represents the strongest or leading team, while the two side masses symbolize the competing teams, each positioned on opposing sides, embodying the direct confrontation and ongoing challenge between players



ARC501: E-SPORT ARENA

INSTRUCTOR: Dr. Majdi Alkhresheh

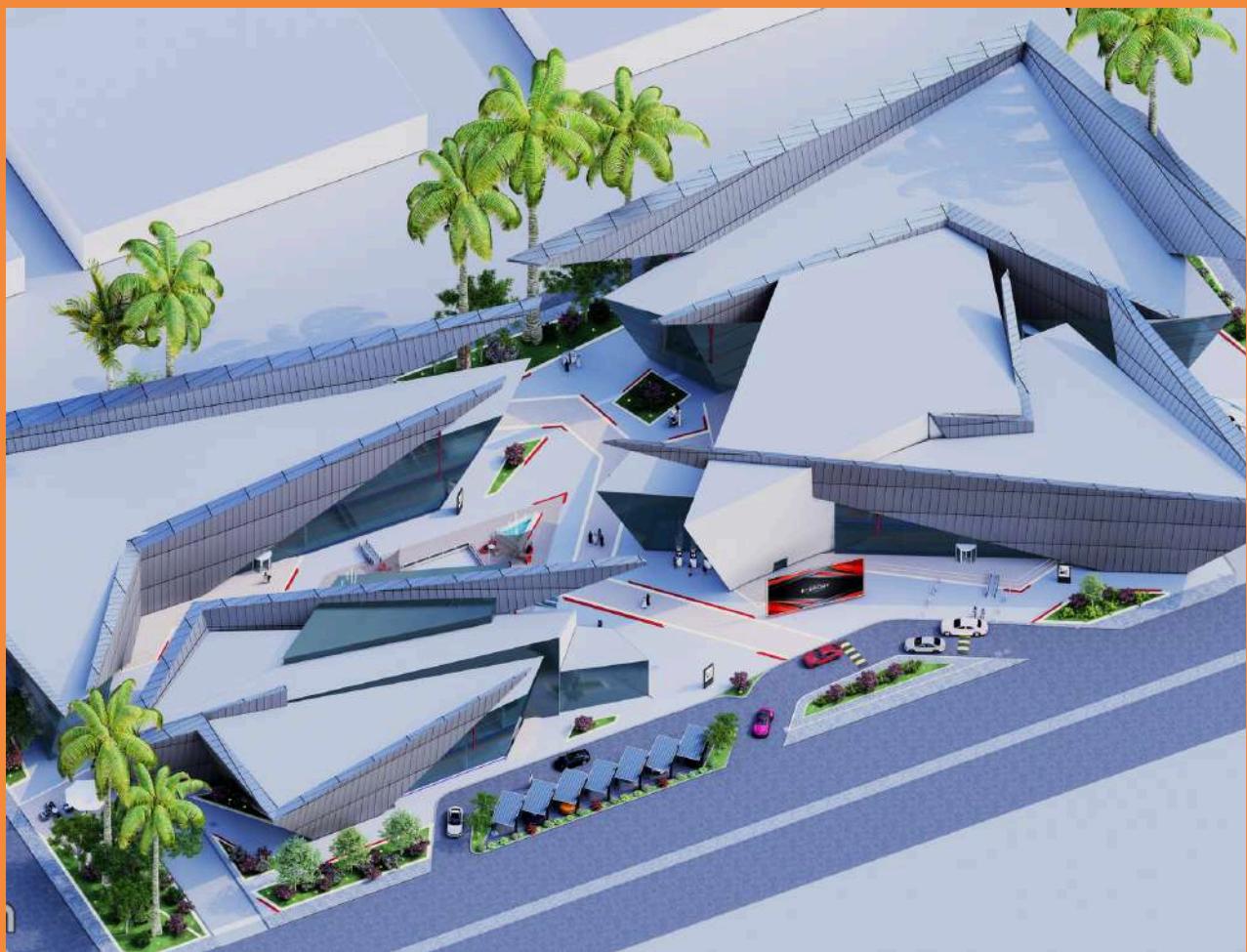


BATOUL SIWAR

CONCEPT

Considering the psychological aspect of the player by fostering the perceptual dimension on the user. Representing the rush and aggression the player feels. Then shifting users to different feelings of joy tranquility and excitement.

Location: Riyadh, Saudi Arabia



ARC511: SkyScape Center

INSTRUCTOR: Dr. Majdi Alkhresheh

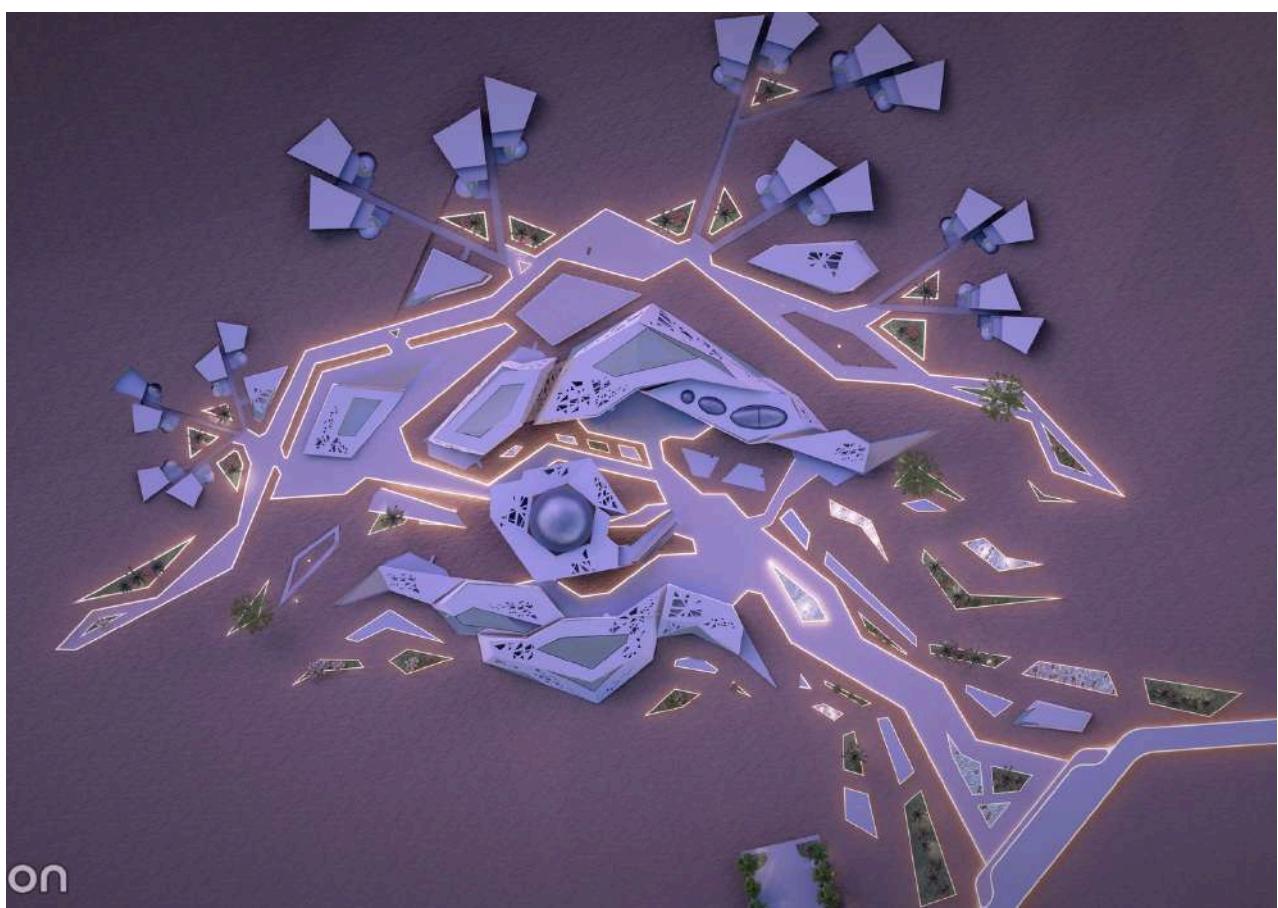


BATOUL SIWAR

CONCEPT

A world-class observatory and astronomy center in Al-Ula, designed to inspire exploration of the cosmos while harmonizing with the desert landscape, offering sustainable camping and stargazing experiences rooted in the region's natural and cultural heritage.

Location: Al-Ula, Saudi Arabia



ARC511: Cancer Survivor Center

INSTRUCTOR: Dr. Anwar Ibrahim



SARA BATTA

CONCEPT

Providing a sanctuary for healing and rejuvenation of cancer survivors through nature and a variety of healing practices incorporating natural springs to rehabilitate cancer survivors.

Location: Wadi Al-Disah, Southwest of Tabuk, Saudi Arabia



ARC511: Art Center

INSTRUCTOR: Dr. Dalia Abdel Fattah



SARA ALABOODY

CONCEPT

This art center celebrates Saudi culture by blending traditional crafts with modern creativity, supporting Vision 2030's cultural goals.

The concept features clustered zones representing different regions, designed for continuous flow and emphasizing interconnectivity and inclusivity for all.



The background of the page features a graphic design. It consists of several overlapping triangles. The largest triangle is a bright orange color, positioned in the lower-left quadrant. Above and to the right of it is a smaller, translucent blue triangle. In the upper right corner, there is a graphic of a modern building with a glass facade and a steel frame, showing multiple levels and a curved roofline. The sky in the background is a light blue with some white, wispy clouds.

FACULTY WORK

UNLOCKING WALKABILITY IN CAR ORIENTED CITIES: ASSESSING BUILT ENVIRONMENT FEATURES AFFECTING WALKABILITY IN RIYADH'S NEIGHBORHOODS.

BY: MAYAS NADIM AHMAD TAHIA

JOURNAL OF ARCHITECTURE AND PLANNING , VOL. 37 (1)

ABSTRACT

Enhancing walkability in urban settings, particularly in regions characterized by hot, arid climates and car-oriented development patterns, is increasingly recognized as a pivotal factor in elevating the quality of urban environments. Despite historical underemphasis in urban planning discourse, the imperative of pedestrian-friendly spaces is garnering heightened attention due to its intrinsic link to urban sustainability. This manuscript endeavors to synthesize existing literature on walkability within urban contexts, explicitly focusing on extrapolating these insights to the urban context of Riyadh's residential neighborhoods, Saudi Arabia, a domain where previous studies underscored deficiencies in pedestrian infrastructure and a prevalent dependence on automobiles for travel behavior. This study aims to highlight the efficacy of the Humanization of Cities Initiative, a strategic directive outlined within the framework of Saudi Vision 2030, by defining the urban features that determine walkability and pedestrian behaviors in residential neighborhoods. The study highlights the enhancements to walkability within the Al-Falah district, selected as the pilot community for this initiative. Through a comprehensive analysis, including the outcomes of the Humanization of Cities Initiative and insights gleaned from previous studies, this research seeks to develop a robust conceptual model for advancing walkability standards and propose recommendations to improve pedestrian friendliness within Riyadh's urban context.

Keywords: Car-Oriented Cities, Built Environment Features, Walkability, Factors, Humanization of Cities initiative.

URBAN SPRAWL IN RIYADH: ASSESSING THE IMPACTS OF HORIZONTAL EXPANSION ON SUSTAINABILITY AND QUALITY OF LIFE.



BY: MAJDI ALKHRESHEH

ABSTRACT

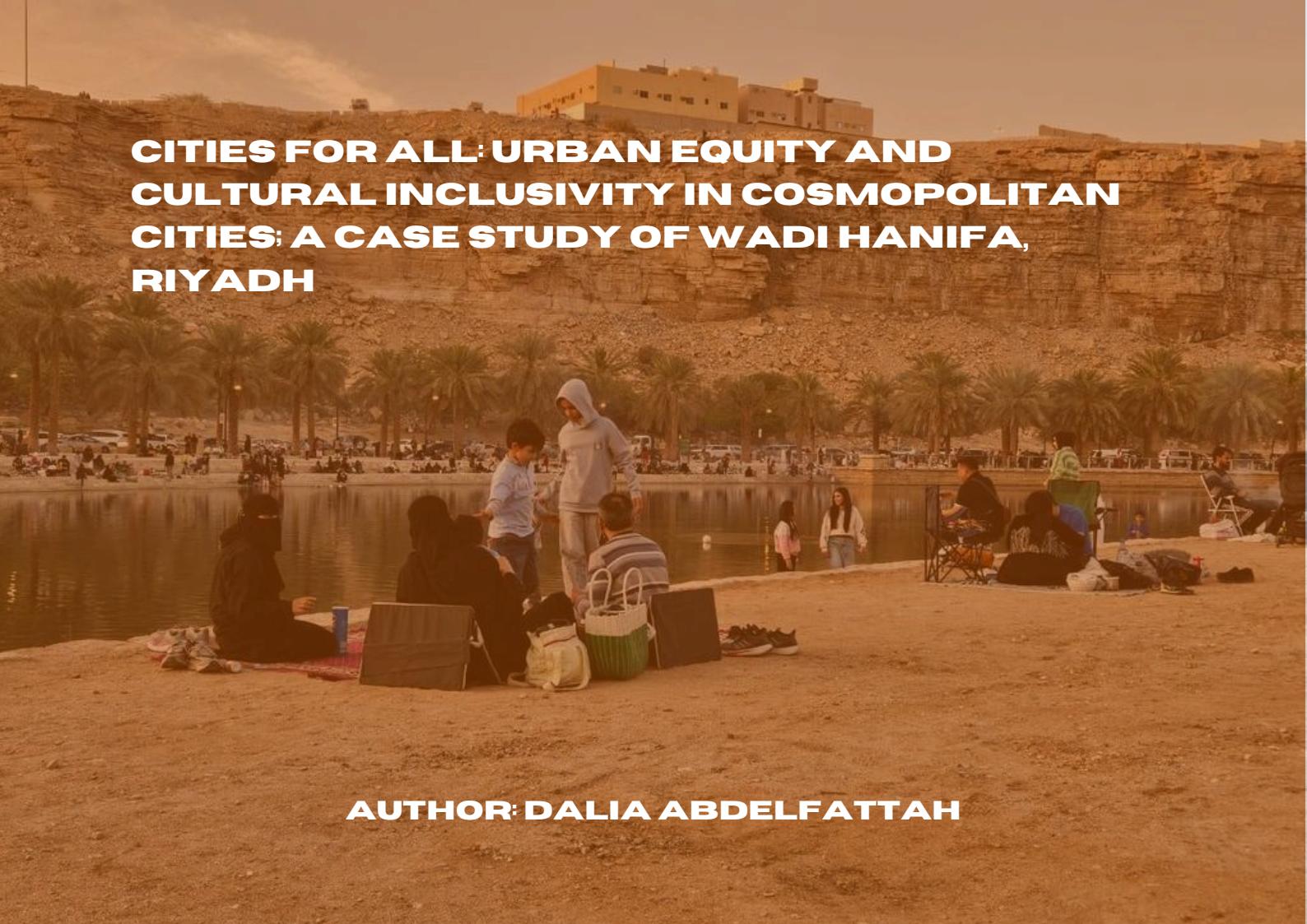
Characterized by its urban grid of two-kilometers square neighborhoods, its low-rise urban development, and its repetitive coarse internal layout, Riyadh's horizontal expansion has notably affected its urban form, social life, and environmental sustainability. While this growth has accommodated fast population increases, it has also presented challenges such as increased car dependency, traffic congestion, air pollution, and social segregation. An exploratory survey underscores these issues, revealing residents' concerns about declining quality of life, difficulty daily trips, and social disconnectedness. This paper also examines the morphological reconfiguration of Riyadh, with a particular focus on the impacts of poor connectivity within its neighborhoods, and higher levels of congestion on its main arterials and freeways.

To address these challenges, the study proposes a reconfiguration of Riyadh's urban morphology, emphasizing the integration of high-rise residential developments along main roads and central corridors, by redesigning the urban section in addition to proposing finer urban fabric within neighborhoods. Guided by New Urbanism principles, this approach promotes walkable, mixed-use, and transit-oriented neighborhoods, fostering compact, connected, and sustainable urban environments. By optimizing land use and increasing density, the proposed model aims to improve access to public transit, amenities, and services. Additionally, innovative parking solutions—such as multi-level underground or podium facilities, smart parking systems, and shared spaces—are recommended to reduce land consumption and alleviate traffic congestion.

Although focusing on the morphological aspects of the urban forms of the city, the paper also is deriving from broader strategies to moderate urban sprawl, including smart growth by creating compact, mixed-use development prioritizing walkability and public transit, Transit-Oriented Development (TOD) by creating high-density neighborhoods around transit hubs to reduce car dependency, Urban Growth Boundaries (UGBs) by limiting outward expansion, infill development by revitalizing underused urban areas and parcels, greenbelts creating open green spaces and trees buffers around cities to limit sprawl, zoning reforms by enabling mixed-use and higher-density development, and fostering walkable communities. These strategies collectively aim to reduce low-density, car-dependent expansion while promoting sustainable urban growth. Public participation is highlighted as a critical component, ensuring that community needs are met and fostering support for transformative urban planning initiatives.

In conclusion, the study proposes policy recommendations for sustainable urban development in Riyadh, advocating for compact design, vertical growth, and community-centric planning. These measures seek to enhance livability, preserve cultural and environmental integrity, and ensure balanced urban growth. This research promotes the discourse of urban sprawl and provides practical insights for policymakers and planners aiming to reconfigure Riyadh's neighborhoods into more sustainable urban spaces.

Keywords: Urban sprawl, Riyadh urban character, sustainable urban development.



CITIES FOR ALL: URBAN EQUITY AND CULTURAL INCLUSIVITY IN COSMOPOLITAN CITIES: A CASE STUDY OF WADI HANIFA, RIYADH

AUTHOR: DALIA ABDELFATTAH

ABSTRACT

The concept of "Cities for All" has become a necessity for addressing the challenges of urbanization, multiculturalism, and social equity in the 21st century. As cities are rapidly evolving and developing increasingly diverse multicultural layers, it became crucial to foster inclusive environments that promote equity, equality, and justice. Yet, challenges persist in developing truly inclusive urban spaces, this acquires a deep understanding of the interlocking complex relationship between social community needs and urban design parameters. This research explores the dynamics of the multicultural societies in urban spaces. It highlights the challenges faced in accessing equitable public spaces. It examines the role of urban design in fostering social cohesion and reducing spatial inequalities. The research aims to study the capacity of the outdoor public spaces to accommodate people needs with cultural diversity, including individuals of different nationalities, genders, age groups, and cultural backgrounds, enabling them to practice their activities and express themselves in public without conflict, while fostering mutual acceptance. The research employs a mixed-methods approach, combining qualitative analysis of spatial data with user experiences and perceptions. The study incorporates observational research, annotated mapping techniques, photographing, and looking for traces to provide a comprehensive understanding of space utilization and cultural dynamics. The research conducts systematic observations of public behavior and space usage patterns across different times of the day.

This method supported the documentation of how various cultural groups interact with the urban public space, providing insights into the effectiveness of design elements in promoting inclusivity and equity in multicultural settings. The study utilizes annotated maps to visually represent spatial data, and uses qualitative observations to present the distribution of amenities and facilities across the urban public space to identify the patterns of use by different cultural groups. The overlapping between the observational data with the annotated maps creates a powerful tool for analyzing the relationship between urban design of public spaces and social equity in multicultural environments. The study proposes a robust framework for assessing and improving urban equity in diverse public spaces. The research applies its methodology to analyze a case study within the context of Riyadh city (an evolving cosmopolitan city as the capital of Saudi Arabia) with a specific focus on Wadi Hanifa as a study area. This case study concentrates on understanding the concept of urban equity in designing public spaces to promote social cohesion, especially in multicultural communities. The research explores the impact of Wadi Hanifa redevelopment project in promoting spatial justice and equity in public spaces, taking into account the varied requirements of the multicultural community in Riyadh. It examines the project's strategy for establishing welcoming public areas that honor local cultural practices while encouraging intercultural harmony, which provide fair access to parks and recreational areas for all groups. The case study analysis of Wadi Hanifa, demonstrates that its strategy aligns with the macro-movement towards creating "Cities for All." It emphasizes how important it is to accommodate a comprehensive approach that considers culturally-sensitive design. The public spaces of Wadi Hanifa has a flexible design qualities that serve the whole community. The research shows that the Wadi Hanifa project successfully integrates principles of equity and urban justice, resulting in increased public use and improved quality of life for diverse multi-cultural groups. The study concludes its findings by highlighting the importance of such successful projects in promoting social cohesion in cosmopolitan cities that embrace diversity as well as harmony. This approach is aligned with the kingdom 2030's vision for Sustainable Development, to create safe, inclusive, and resilient communities.

MODELING PEDESTRIAN BEHAVIOR IN LINEAR PUBLIC SPACES: THE CASE OF THE NILE WATERFRONT "MAMSHA AHL MASR

MODELING PEDESTRIAN BEHAVIOR IN LINEAR PUBLIC SPACES: THE CASE OF THE NILE WATERFRONT "MAMSHA AHL MASR

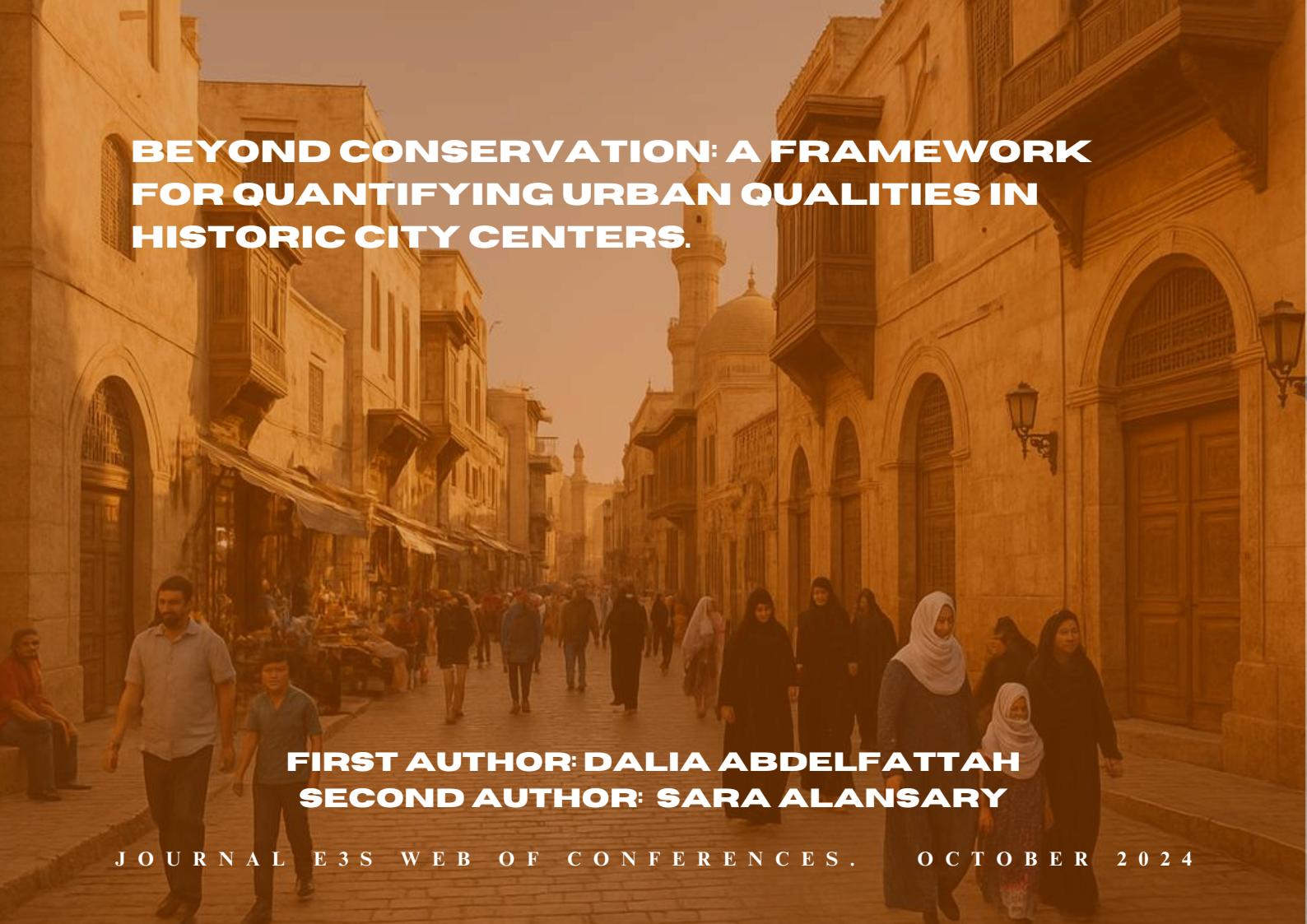
AUTHOR: DALIA ABDELFATTAH

ABSTRACT

The design of urban spaces that foster sustainable practices along the waterfront requires new analytical and structural approaches to promote spatial planning processes. This research discusses the relationship between the configuration of riverbanks as linear urban spaces and the public interest by studying the appropriation of pedestrian behavior. This paper adopts a multi-method approach to investigate pedestrian movement and interactions in linear urban spaces. By combining automated trajectory analysis with environmental mapping, behavioral observation, and user interviews, this approach enables to capture qualitative insights into user experience, and perceptions of safety and comfort. The study aims to identify factors that influence the visitors flow patterns, evaluate the impact of design features, and uncover safety concerns. The model incorporates spatial analysis for the stipulated urban features, and testing visitors' alternatives for the new transformation of the Nile waterfront project. The new pedestrian promenade known as "Mamsha-Ahl Masr" (the walk of Egypt's citizens), incorporates several transformations of the river landscape which aims to improve the quality of life for the first completed phase and further extensions are taking place consecutively. However, the quantitative understanding of population flows expedites specific procedures on the urban scale to showcase people's interactions. Therefore, the research deploys a multi-agent behavior simulation technology to demonstrate the interaction between individuals and the linear environment. The research represents empirical data synthesizing variables that affect walkability models related to visitors' attractiveness towards diverse activity preferences, clustering, and visiting frequency.

Finally, the qualitative comparison and quantitative correlation analysis are combined to enhance the understanding of the spatial design features affecting visitors' experiences while studying the potential behavior simulation model. By combining these analyses, we can identify areas for improvement and optimize the promenade's design for a better pedestrian experience. The research explores the various scenarios for pedestrian flow tracking by explicitly simulating activities and therefore enhancing the aspects of social cohesion. The research concludes by presenting relevant criteria required for optimizing pedestrian-friendly experience in linear urban areas as a comprehensive approach that promotes walkability, safety, and social interaction in cities.

Keywords: Pedestrian Behavior, Spatial Design, Modelling, Urban Dynamics, Walkability, Riverfront



BEYOND CONSERVATION: A FRAMEWORK FOR QUANTIFYING URBAN QUALITIES IN HISTORIC CITY CENTERS.

**FIRST AUTHOR: DALIA ABDELFATTAH
SECOND AUTHOR: SARA ALANSARY**

JOURNAL E3S WEB OF CONFERENCES.

OCTOBER 2024

ABSTRACT

What gives a place its unique character? What makes this place valuable to its community? Questions like these ultimately revolve around the practices that contribute to urban qualities. Historic city centers in MENA regions, despite their cultural significance, face challenges due to neglect, economic constraints, over-density, and inappropriate urban development. While conservation efforts have been extensive, they often overlook the urban qualities of these areas. This research aims to develop quantitative methods to assess the impact of conservation on urban qualities. By analyzing various conservation approaches and their effects on both physical (buildings, streets, and other urban elements) and non-physical (comfort, safety, services) urban elements, the study seeks to identify key factors contributing to urban quality. Quantitative techniques will be employed to evaluate these factors, including aesthetics, sense of place, heritage, and social interaction. The research will ultimately propose a methodological framework for quantifying urban qualities in conserved historic areas, aiding in the evaluation and optimization of future conservation efforts.

SUSTAINABLE ARCHITECTURE IN EGYPT: A HISTORICAL ANALYSIS

FIRST AUTHOR: SARA ALANSARY

SECOND AUTHOR: DALIA ABDELFATTAH

**8 TH INTERNATIONAL CONFERENCE OF CONTEMPORARY
AFFAIRS IN ARCHITECTURE AND URBANISM.**

ABSTRACT

The growth of what we may, in the present context, describe as "unsustainable architecture" began with the industrial revolution, as more and more new technologies were incorporated into the fabric of buildings. Before all these developments, most buildings employed the properties of material and form to provide appropriate relationships between their uses and the environments. In other words, buildings of the past were sustainable. This paper will present the background of sustainable architecture features in Egypt by studying ancient Egyptian architecture to address sustainability features through architectural heritage with a focus on the ancient civilization and Islamic civilization in Egypt. The research methodology encompasses the establishment of criteria for evaluating the sustainability of architectural products, followed by a comprehensive review of these products during periods under study. Furthermore, the historical approaches towards sustainable architecture examined allow the formulation of recommendations aimed at enhancing contemporary Egyptian architecture.

DAYLIGHT PARAMETERS IN HOSPITAL WARDS IN HOT, ARID REGIONS: A SIMULATION ANALYSIS IN THE CONTEXT OF SAUDI ARABIA

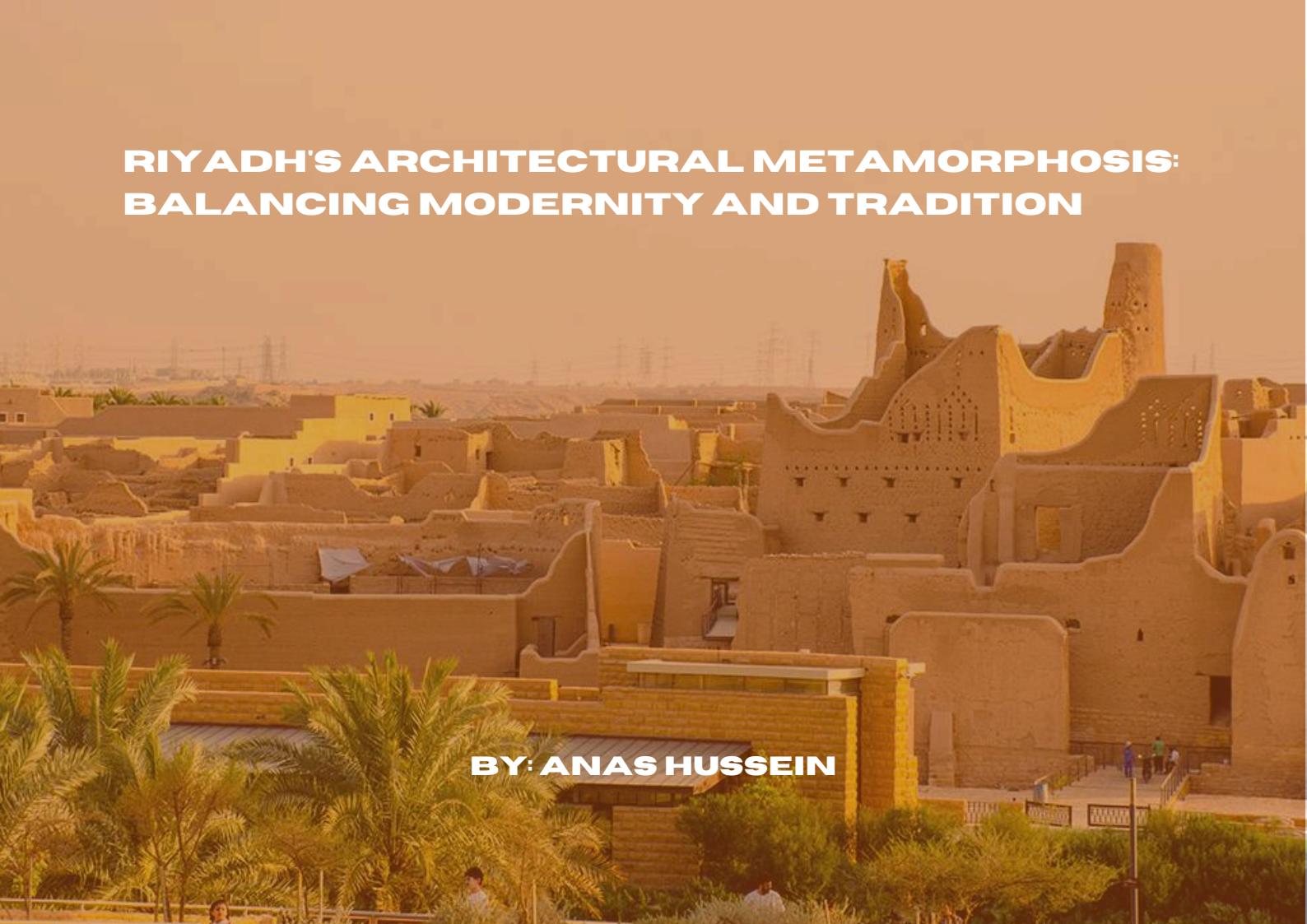
FIRST AUTHOR: ANAS HUSSEIN
SECOND AUTHOR: ABDULLAH ELSHAFIE

ABSTRACT

The healing effect of daylight cannot be underestimated or overstated because multiple studies and research have revealed that exposure to natural light accelerates the healing or recovery process of patients. This research paper investigates the optimization of daylighting in hospital wards situated in hot, arid regions with a focus on Saudi Arabia. The study employed simulation tools to evaluate different daylighting strategies, aiming to improve energy efficiency and well-being. The research determined that patients in daylight rooms tend to experience less pain; this is a testament to the therapeutic effects of daylight. Consequently, daylighting decreases hospital stays and enhances mood and productivity among staff. The evaluation of the recent situation in the case study ward in a Saudi Arabia hospital established that the daylight levels are below the recommended standards and that the daylight varies between the identical wards due to the time of the day and ward direction.

Keywords: Illuminance levels; Uniformity distribution; Healthcare Buildings; Daylight performance

RIYADH'S ARCHITECTURAL METAMORPHOSIS: BALANCING MODERNITY AND TRADITION



BY: ANAS HUSSEIN

ABSTRACT

This study investigates the transformation of Riyadh's architecture, from traditional forms to a contemporary urban landscape. Using a qualitative approach, it explores the historical, cultural, and economic factors that have influenced Riyadh's architectural development. The key findings reveal a shift from the traditional Najd style to a blend of modern and traditional elements, driven by globalization and economic diversification. However, this rapid modernization has led to a conflict between contemporary and traditional forms, resulting in a loss of cultural identity. The study highlights the importance of integrating local cultural elements into architectural design to preserve heritage amidst urban development. As Riyadh evolves, the challenge is to balance modernization and the preservation of its rich architectural legacy, reflecting both its past and future aspirations. This research contributes understanding the complex interplay between architecture, history, culture, and identity in the context of urban development, providing insights into the delicate equilibrium between preservation and progress in the face of rapid urbanization and cultural change.



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