

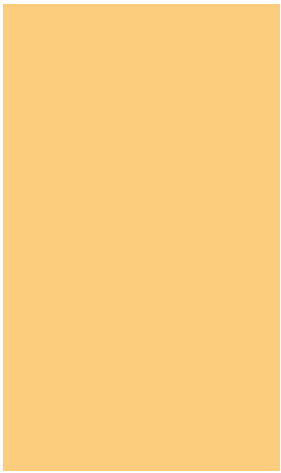
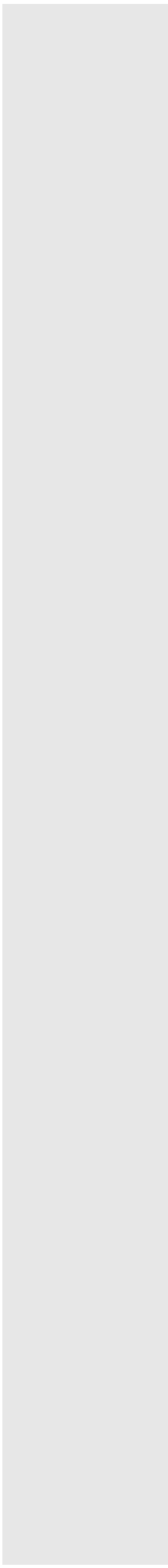
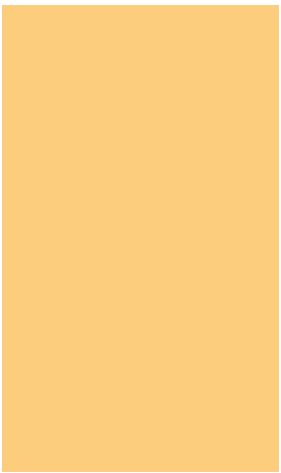
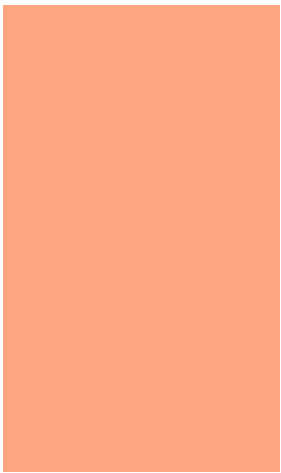
IN FOCUS

**"VISIONARY BEYOND LIMITS 2023":
HIGHLIGHTS FROM THE ANNUAL
EXHIBITION 2023**

FINAL STUDIO JURIES

**MEMORANDUM OF
UNDERSTANDING SIGNING WITH
THE INTERNATIONAL HOSPITALS
CONSTRUCTION CO.**





I. ACADEMICS

- A. "VISIONARY BEYOND LIMITS 2023": HIGHLIGHTS FROM THE ANNUAL EXHIBITION 2023
- B. FINAL STUDIO JURIES
- C. FACULTY RESEARCH

II. TALKS AND WORKSHOPS

- A. HOW TO GENERATE A CONCEPT
- B. A WORKSHOP ON CHAOS® CORONA
- C. HOW TO THINK ARCHITECTURE
- D. A WORKSHOP ON BUILDING CODES, STANDARDS, AND REGULATIONS
- E. URBAN METABOLISM AND URBAN PLANNING: CHALLENGES, POTENTIALS, AND PARADOXES OF WASTE LAND REUSE

III. VISITS AND TRIPS

- A. COMPUTATIONAL ARCHITECTURE WORKSHOP AT KAUST
- B. STUDIO II SITE VISIT TO WADI GHIA AND UM HABLEEN
- C. A FIELD TRIP TO THE SAUDI RED BRICK CO. IN BAHRA
- D. FIELD TRIPS TO THE AVENUE MALL CONSTRUCTION SITE
- E. STUDIO VI FIELD TRIP TO KING ABDULLAH ECONOMIC CITY
- F. A FIELD TRIP TO THE ISLAMIC ARTS BIENNALE
- G. A FIELD TRIP TO ENG. ABDUL AZIZ TAHER AL-HEBSHI'S GALLERY AND WOOD WORKSHOP
- H. EXPERIMENTAL INVESTIGATIONS INTO SUSTAINABLE CONCRETE
- I. A FIELD TRIP TO DAMMAM'S AL-MURJAN ISLAND
- J. AL BALAD TRIP

IV. OTHER EVENTS

- A. MEMORANDUM OF UNDERSTANDING SIGNING WITH THE INTERNATIONAL HOSPITALS CONSTRUCTION CO.
- B. THE ARCHITECTURE DEPARTMENT'S SPRING SEMESTER WELCOME EVENT
- C. CELEBRATING SAUDI FOUNDING DAY THROUGH ARCHITECTURE AND DESIGN

V. QUTUF: A CREATIVE HARVEST

- A. *PARAMETRIC BENCH AND WALL*

VI. CREDITS AND CONTACTS

I. ACADEMICS

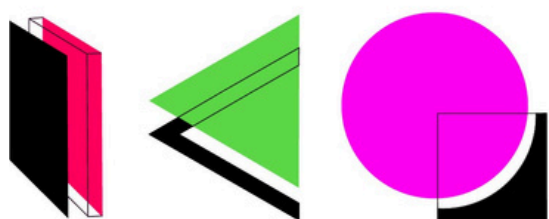


**A. "VISIONARY BEYOND LIMITS 2023":
HIGHLIGHTS FROM THE ANNUAL
EXHIBITION 2023**

B. FINAL STUDIO JURIES

D. FACULTY RESEARCH

**"VISIONARY BEYOND
LIMITS 2023":
HIGHLIGHTS FROM THE
ANNUAL EXHIBITION
2023**



VISIONARY

Beyond Limits 2023

We would like to extend our heartfelt gratitude to everyone who attended and supported the recently concluded Annual Exhibition 2023, "Visionary Beyond Limits 2023," which took place on June 14th and 15th at the prestigious Ritz-Carlton Jeddah. This spectacular event celebrated the exceptional work of our graduates from the Department of Architecture at Dar Al-Hekma University for the academic year 2022/2023. Under the esteemed patronage of Her Excellency Princess Al-Bandari Bint Mohammad, the exhibition exceeded all expectations and left a lasting impression on all who were in attendance.



We are immensely proud of the graduates who poured their passion and dedication into their projects, and we would like to express our gratitude to the faculty and staff who provided guidance and support throughout their journey. The annual Exhibition 2023 truly embodied the spirit of exploration, imagination, and limitless possibilities that define the field of architecture.

We extend our sincere appreciation to all those who attended the exhibition, including industry professionals, design enthusiasts, and curious individuals who share our admiration for architectural innovation. Your presence and engagement contributed to the success of the event and encouraged these emerging architects to continue pushing boundaries in their future endeavors.

Strategic Partner



THE RITZ-CARLTON

Platinum Partner



Gold Sponsor



Media Sponsor



Catering Sponsors



"Visionary Beyond Limits 2023" encapsulated the future of architecture, where limitless imagination converges with technical expertise. We celebrate the graduates' achievements and look forward to witnessing their impactful contributions to shaping our built environment.

We invite you to stay connected with us for future events and opportunities to engage with the exceptional work of the Department of Architecture at Dar Al-Hekma University.

To all our graduates, congratulations on this milestone accomplishment! We wish you continued success as you embark on a promising journey that goes beyond limits and inspires generations to come.





FINAL STUDIO JURIES



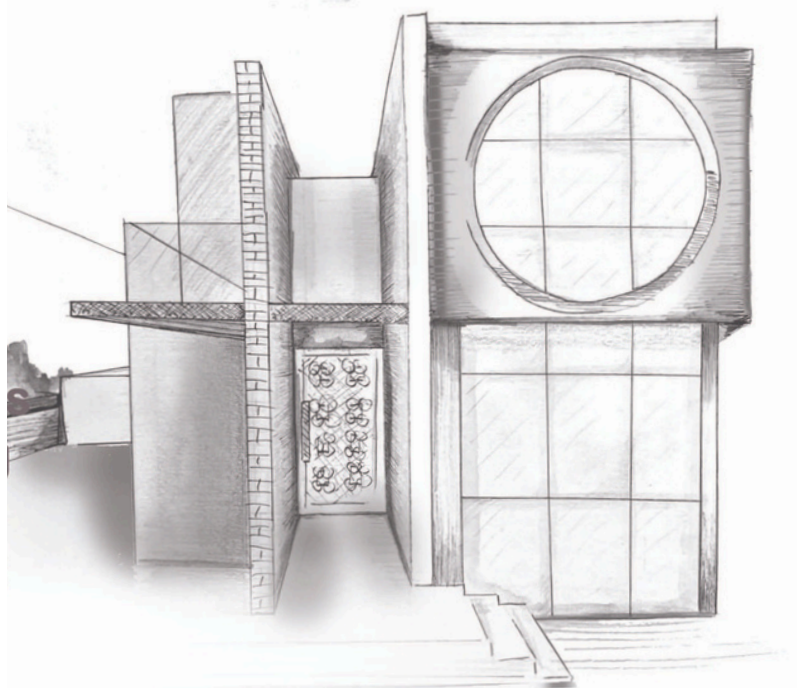


The final architecture design juries for the
AY 2023 Spring semester were held from
June 4 until June 7.

Studio I: Form and Order in Cultural Context (ARCH 2401)

Instructor: Ms. Sima Refae

Notable Project: Farah Abdullah Alqazlan



Brief: In this semester's project, the students selected a pioneer modern or contemporary architect to serve as a model for architectural thinking. They were required to analyze their selected architect's personality and design approach as well as his distinguishing design principles and elements to learn how to think and design like him. The students also picked a member of the architecture faculty as their client and designed a house according to their needs. As part of the design process, the students analyzed their selected architect, assessed the site conditions, and interviewed their client to enable them to reflect both their architect's design approach as well as their client's character and living requirements.

THE CLIENT :
Dr. Tamren Anderson
needs :

1-
**Guest
room**

2-
**OFFICE
&
WORK AREA**

3-
**library
&
Reading area**

2
**SELECTION
OF MATERIALS**

he makes building like
monuments but in a
modern way

4
**SOLID
&
VOID**

5
LIGHT AND SHADOW

he use a natural phenomenon
to highlight
the beauty of the place
"the sun never know how
great it is until it hits the side of
the building"
louis kahn

3-
GEOMETRIC SHAPES
geometric shapes are what
distinguish louis kahn
design from other

THE ARCHITECT :
Louis Kahn
**HIS DESIGNS CAN BE
DISTINGUISHED BY :**

1
EMPHASIS

The design revolves around
emphasizing
one piece of the place that may
gave it the artistic touch
of the place

CONCEPT

**INSPIRED
BY LOUIS KAHN'S
DEEP APPRECIATION
OF :**

البلد
جدة التاريخية
JEDDAH HISTORIC DISTRICT

**ARCHITECTURAL
HISTORY**

**CLIMATE &
CULTURAL
CONDITIONS**

**HIS SENSITIVITY
TO LOCAL SITE**

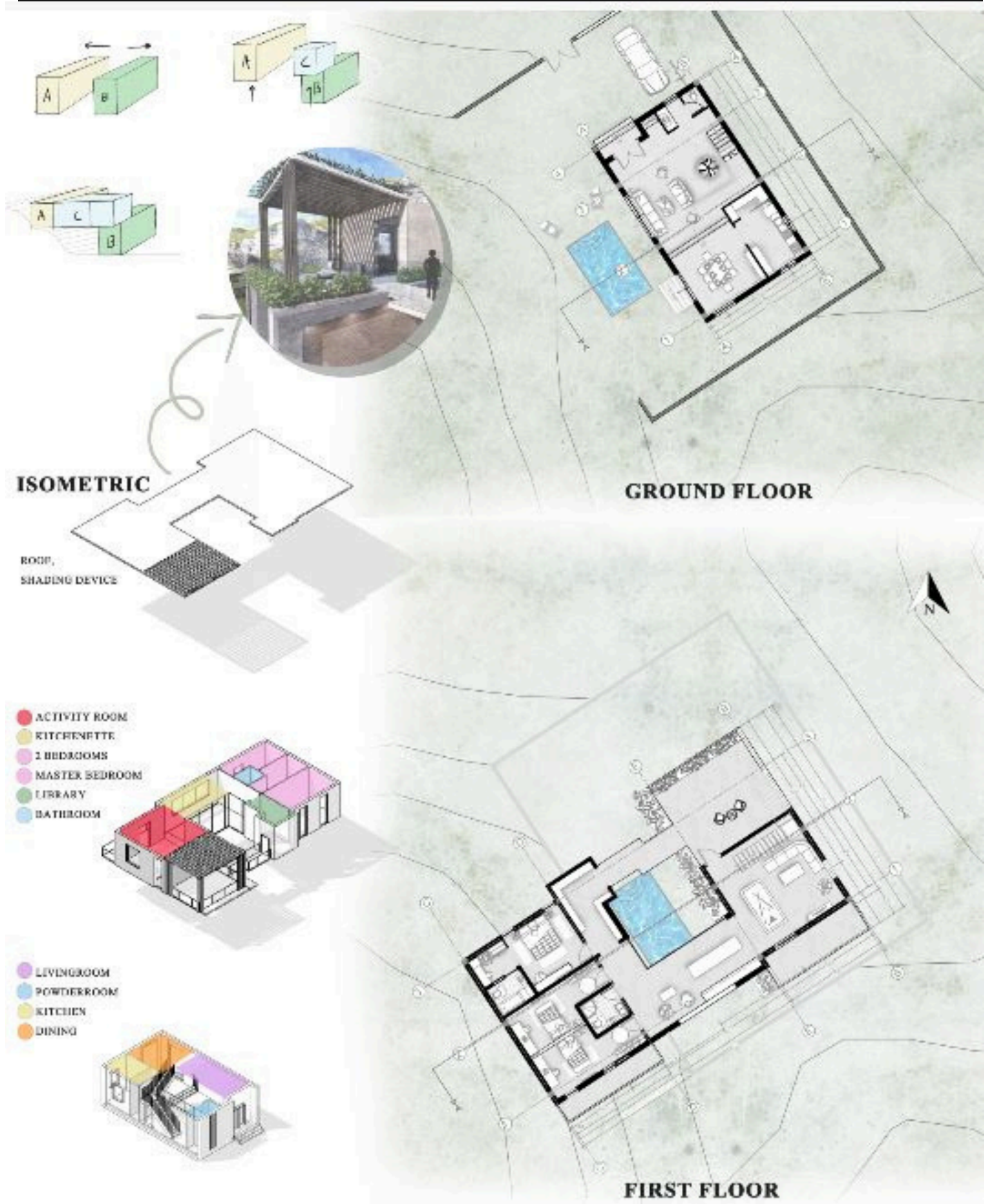
Studio II: Small Scale Buildings and Sustainability (ARCH 2502)



Brief: This studio course focuses on the concepts of program, site characteristics, climate, and principles of sustainable design. Students explore the role these factors play in shaping small-scale buildings in studio-based problems. The main objective of the final assignment was to design a site-integrated holiday chalet on a sloped site in Jeddah. Students were asked to either integrate a building seamlessly with its site or to create a strong, intentional contrast with the landscape. For the final jury presentation, students were required to present detailed plans, facades, and sections as well as interior and exterior perspectives. In addition, they were also asked to present philosophical and architectural ideas that address the issues of site integration and sustainability.

Instructor: Dr. Djihed Berkouk

Notable Project: Noran Alharazi

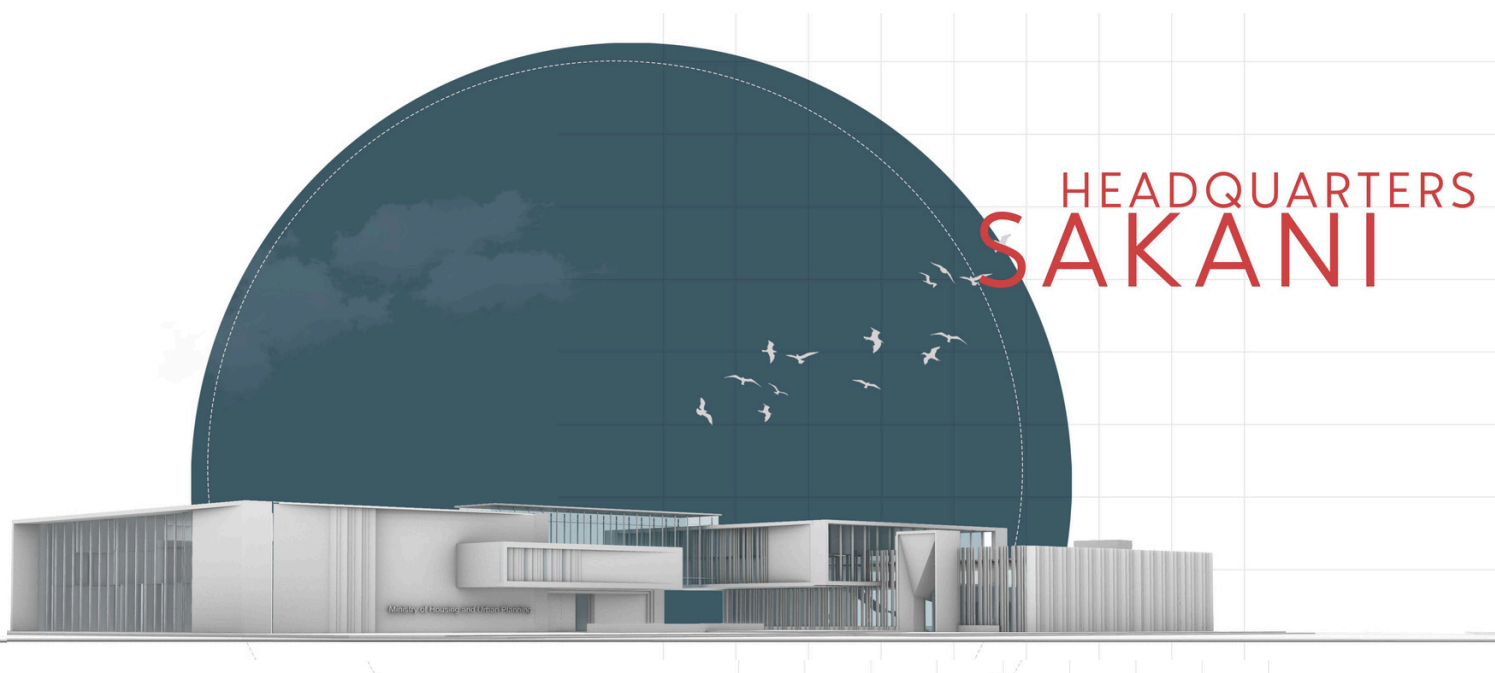


Studio IV: Civic Design (ARCH 3502)

Brief: As part of Saudi Vision 2030, the Saudi Government is firmly committed to achieving a positive and dramatic change in the quality of public service provision. New authorities have been established and existing ones are developing and advancing very rapidly. To meet the objectives of Saudi Vision 2030, many government authorities require new buildings in the city of Jeddah. All building initiatives involving local authorities should be seen as civic projects with the potential of improving the city's built environment as well as the quality of life of its citizens. This semester students designed Sakani Headquarters, a Customer Service and Exhibit Center in Jeddah. Founded in 2017 by the Saudi Ministry of Housing and the Real Estate Development Fund, the Sakani Program seeks to increase citizenship homeownership to 70% by 2030. Students were asked to design a work of civic architecture that would not only ennoble its surroundings but also positively impact the quality of public services provided inside the building.

Instructor: Ms. Shatha Abualfaraj and Ms. Rasha Farsi

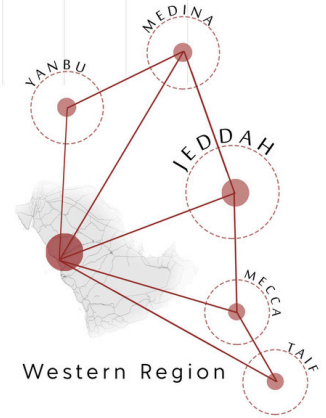
Notable Project: Naseem Hussein



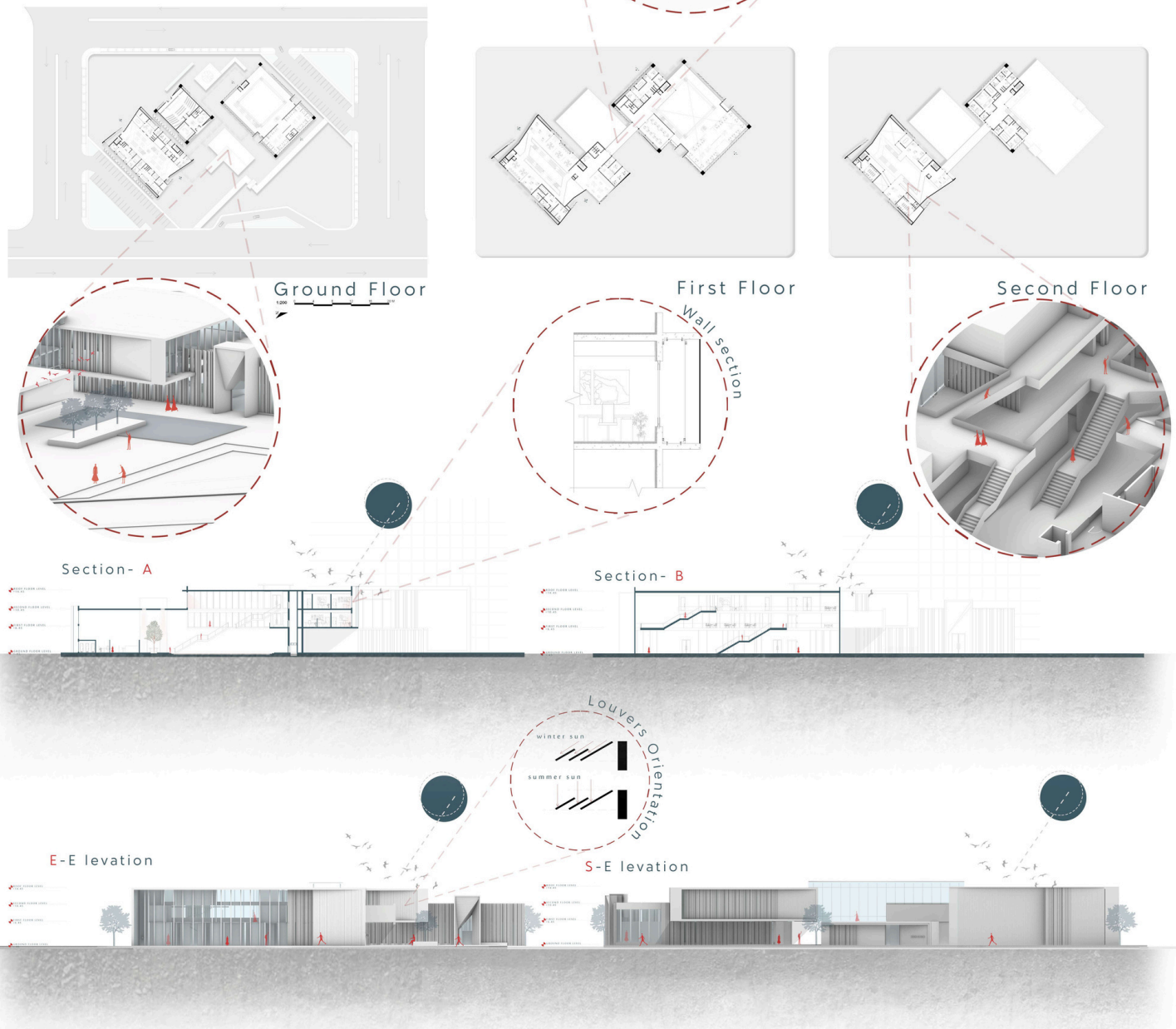
| FORM GENERATION

- 1 EXTRUDE
- 2 DIVIDED IN RESPOSE TO THE USER EXPERIENCE
- 3 ORIENTED IN RESPOSE TO THE USER EXPERIENCE

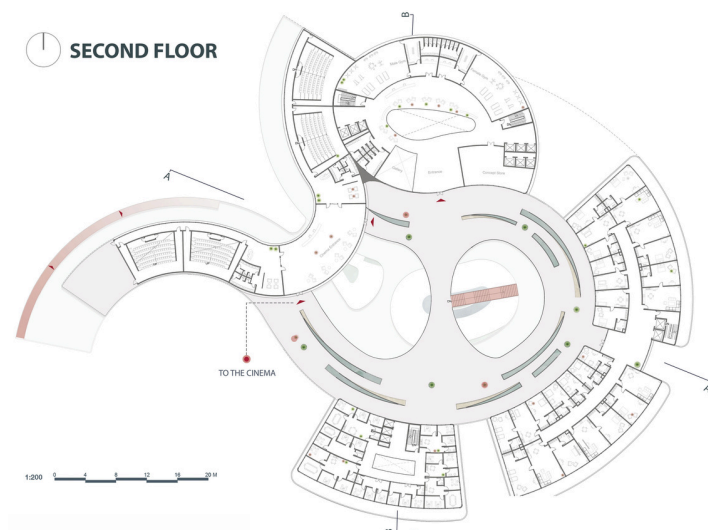
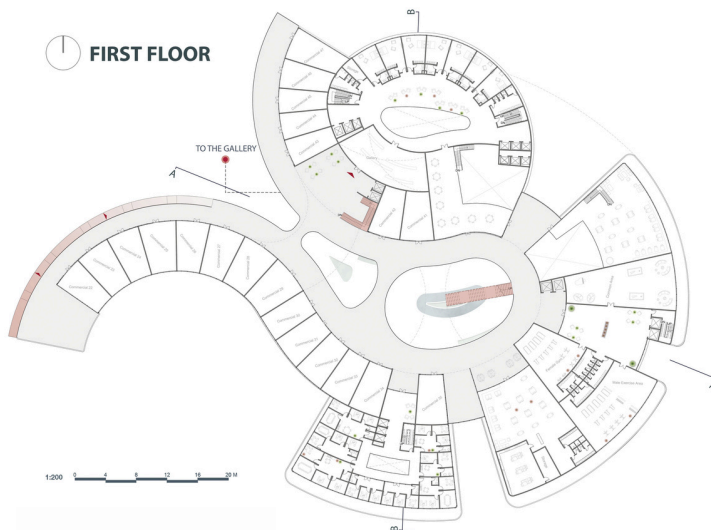
| Users

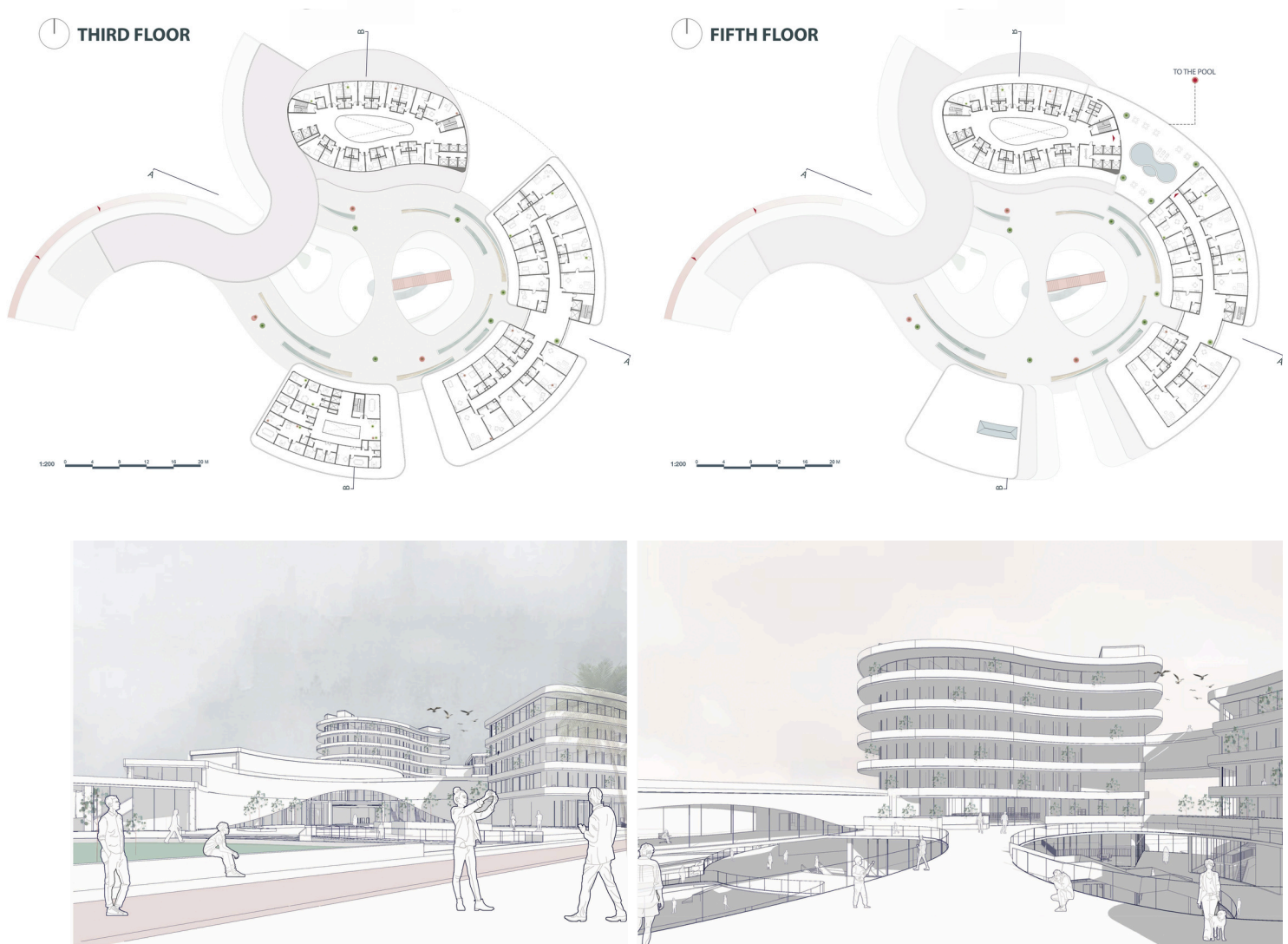


| ARCHITECTURAL DRAWING



Studio V: Mixed-Use (ARCH 4501)





Instructors: Ms. Shatha Abualfaraj and Mr. Abdulmohsin Adas

Notable Project: Maryam Bagaber

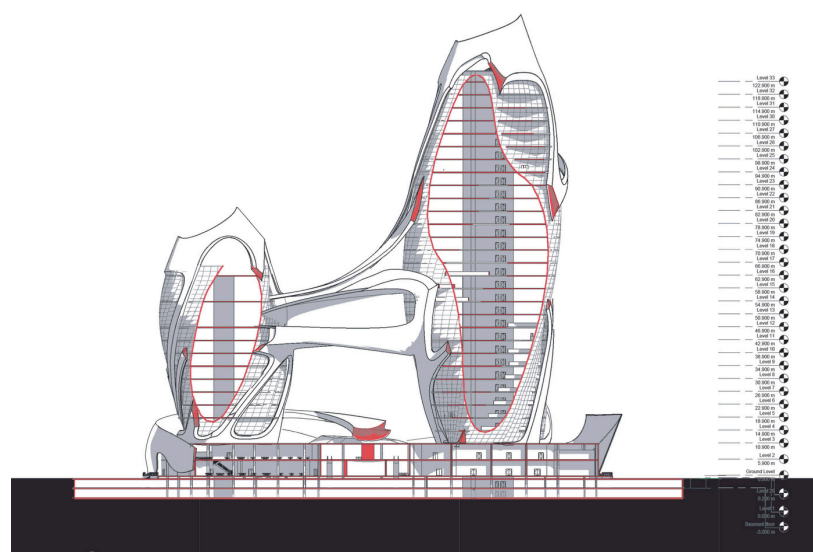
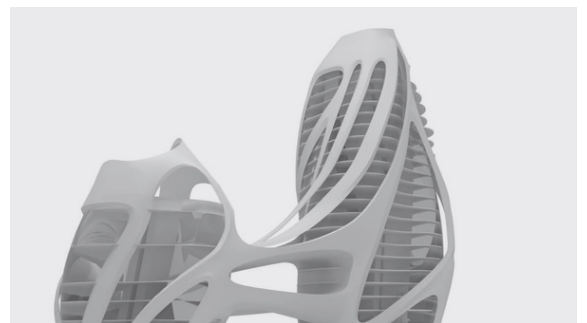
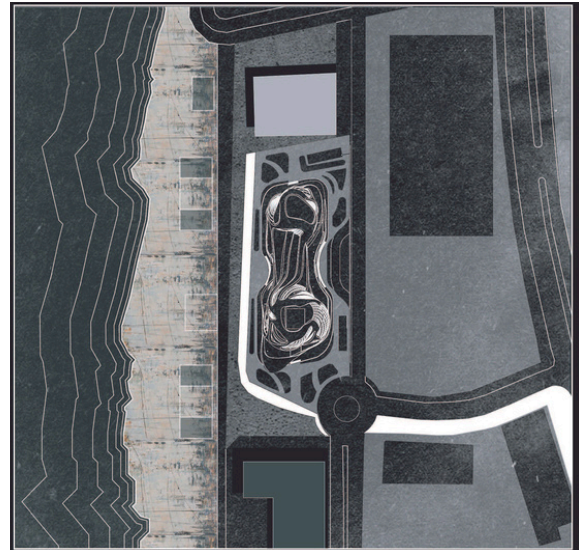
Brief: This project focuses on designing an iconic place that combines hospitality, social activities, and offices. It consists of a mixed-use development that includes a hotel, residential units, offices, and other necessary services. SoHo (Small Office Home Office) projects are new age buildings that serve a young generation who are looking for accommodation and workspace at the same time. This project aims to design a multiple living unit building for people between the age of 25 and 40 years old in different active areas of Jeddah, Saudi Arabia.

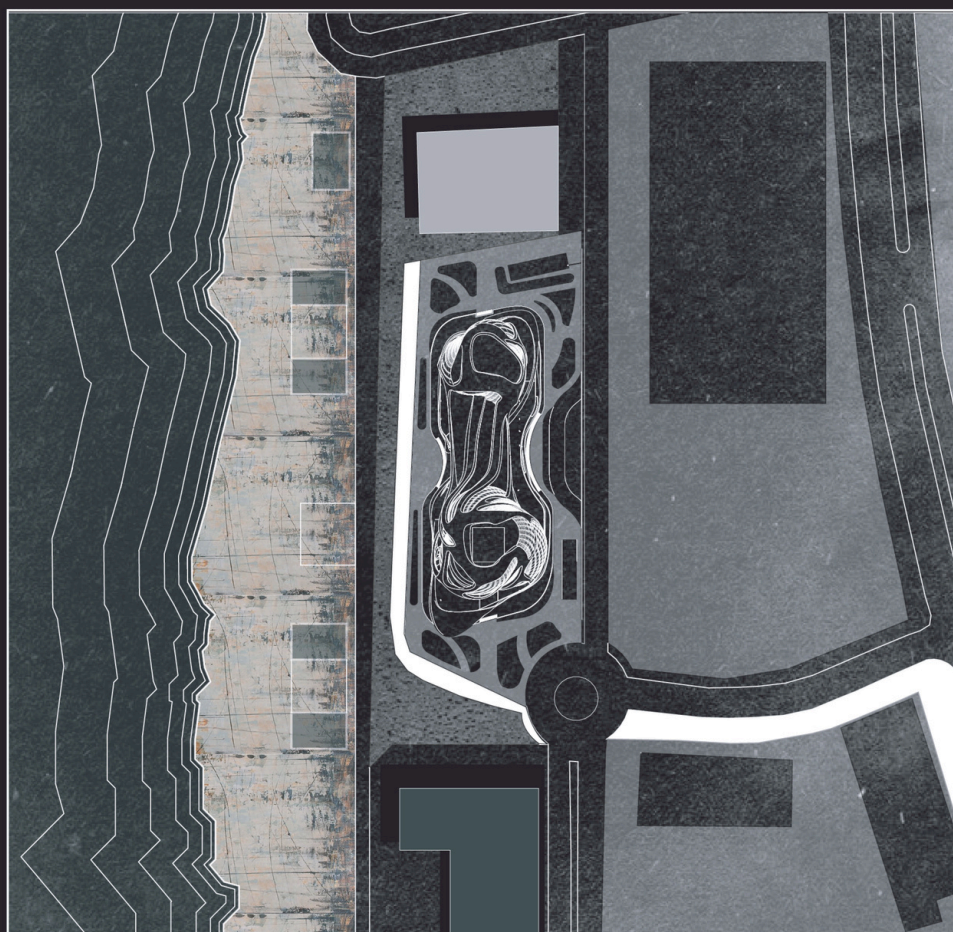
Studio VI: Comprehensive Design (ARCH 4502)

Brief: This studio course focuses on the architectural design process from the beginning of concept generation through to the schematic design, the detailed development, and the final comprehensive presentation. It covers the integration of building structural and environmental systems, life safety and code requirements, and technical coordination in the building design. This project emphasizes the importance of the building construction details as a reinforcement of the overall project concept or approach

Instructors: Dr. Nader Azab and Ms. Suman Faruqui

Notable Project: Loyal Azan

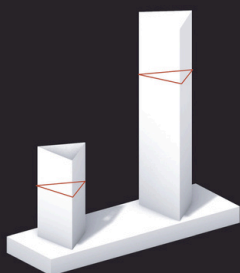
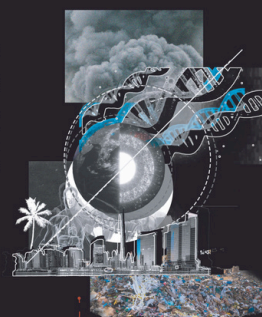




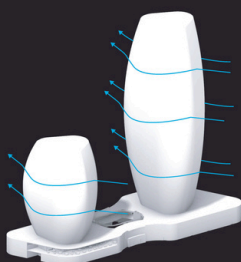
CONCEPT

Humanity needs to rethink the damage they created on the environment by the overconsumption, and waste of products and manufacture them. It is time for business to have less negative environmental and social impact resulting from their operations in a particular market. The project seeks to repair the essence of business, provide and host the ecosystem entrepreneurs with comfort and respond to their needs, create spaces that evoke creativity, and make them use their knowledge to seek and find out creative solutions to transform the world into a sustainable and better place. The design serves that vision by delivering a flexible space and support labs that can evolve and adapt to meet each successive cohort's needs, freeing entrepreneurs to focus

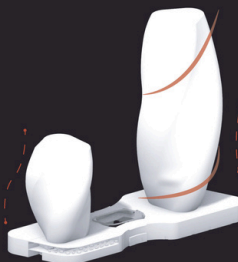
FORM GENERATION



The triangle is the strongest as it holds its shape and has a base



Round off corners to be streamlined against wind load



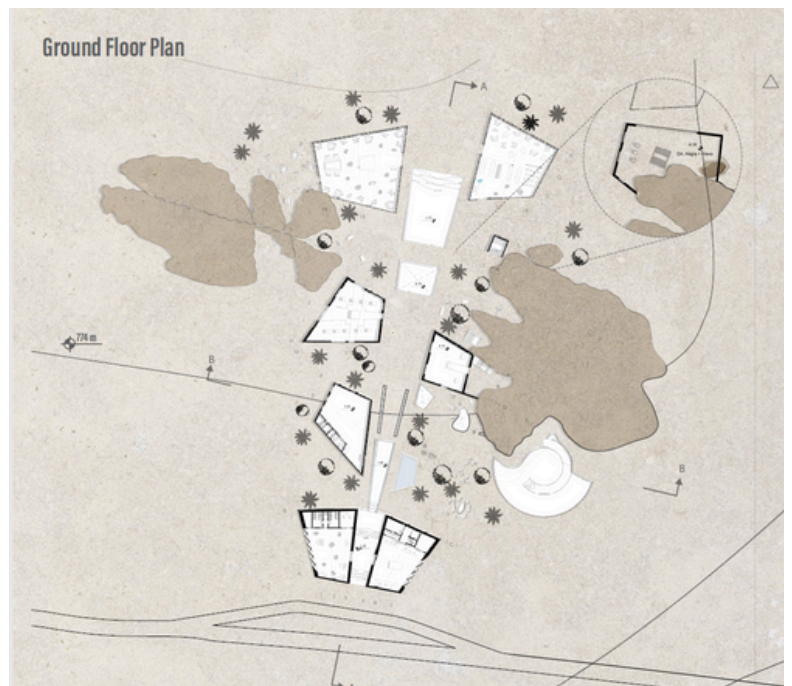
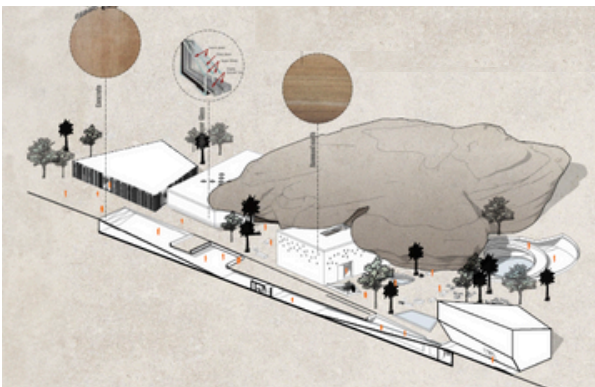
Rotation to shed wind vortices in different directions and reduce oscillation



Round off corners to be streamlined against wind load

Studio VIII: Capstone Project (ARCH 5502)

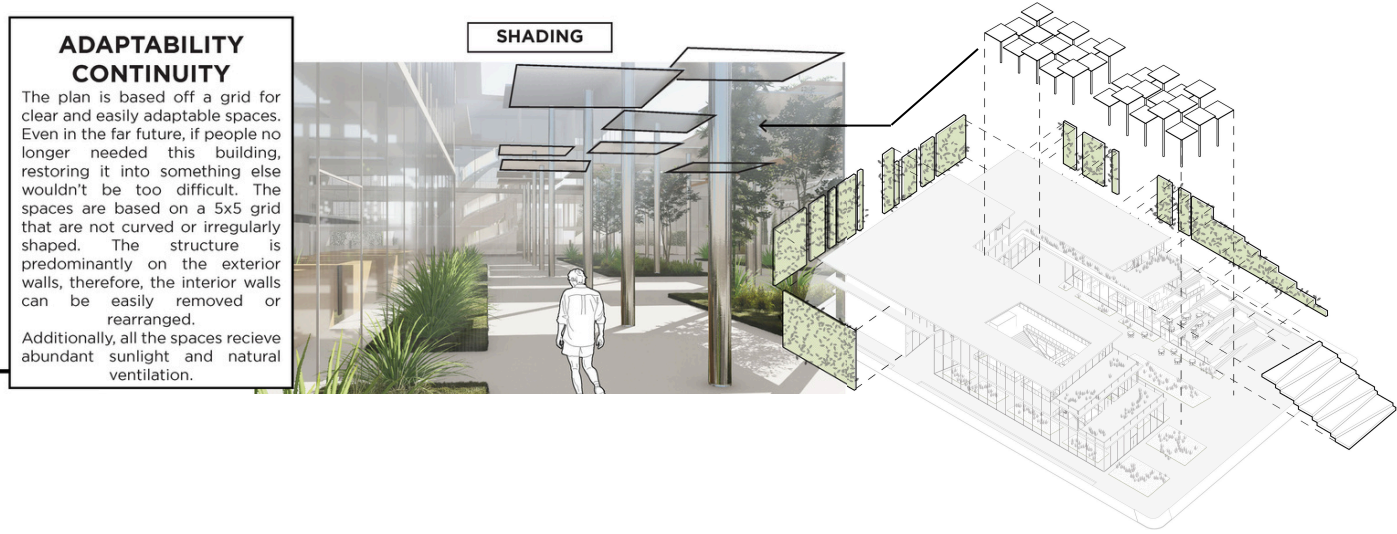
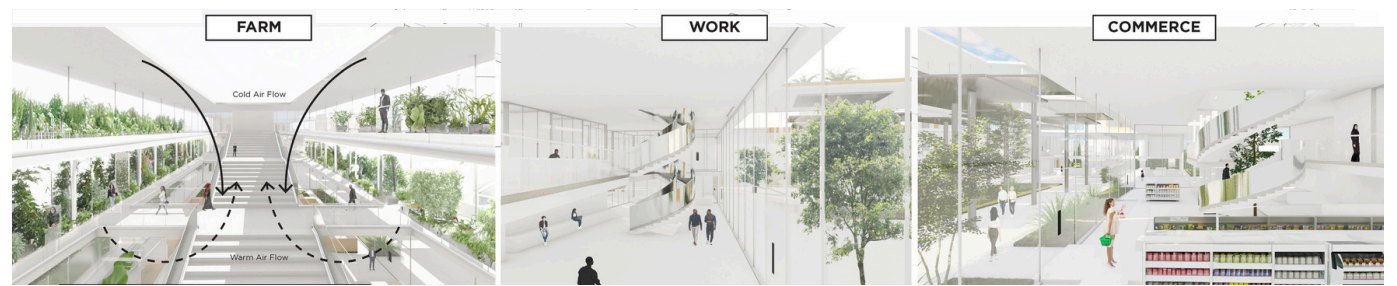
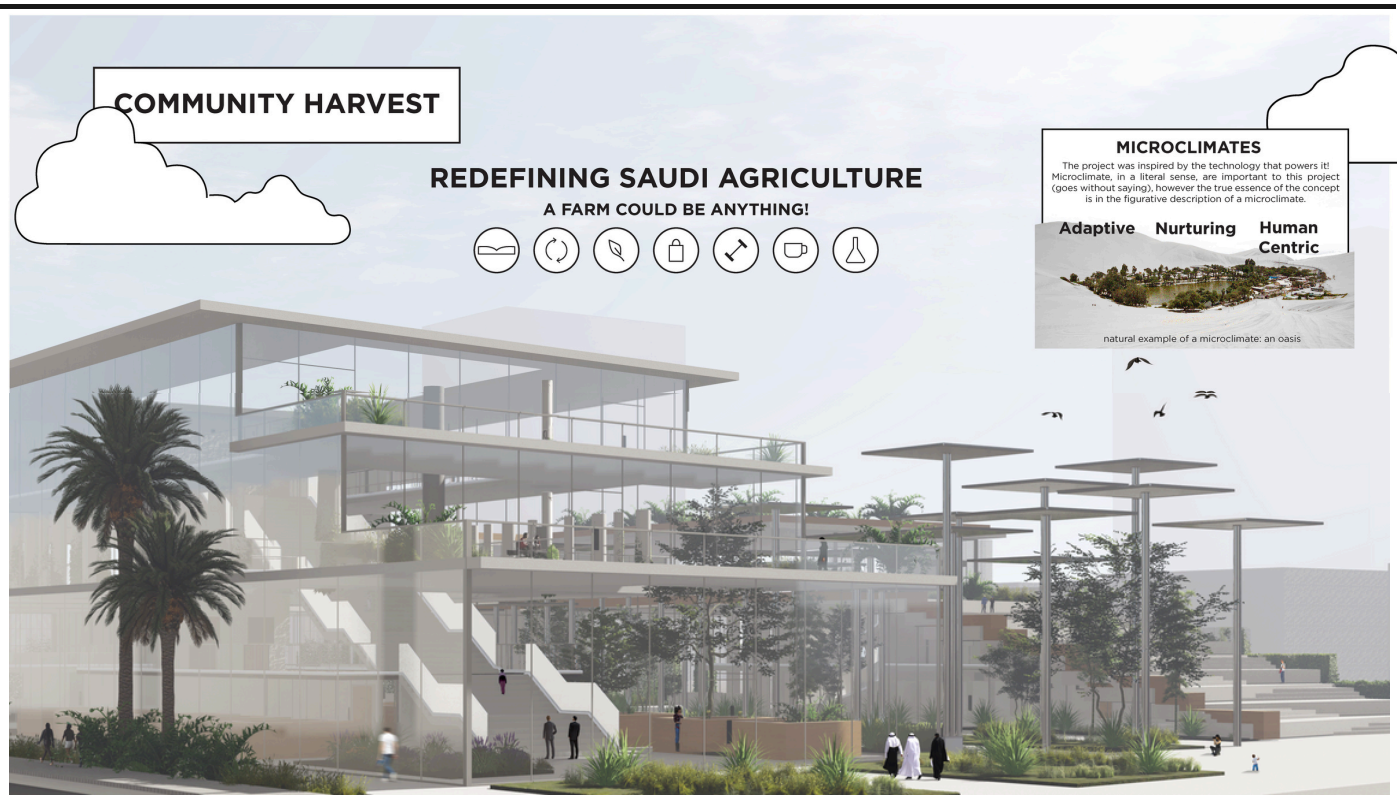
Brief: This studio course focuses on developing advanced insights regarding local, regional and global challenges in architectural design. It emphasizes sociological, economic, cultural and environmental issues in complex design projects. This course addresses specific issues of project development in professional and technical terms and reinforces the application of sustainable design principles in comprehensive studio problems.



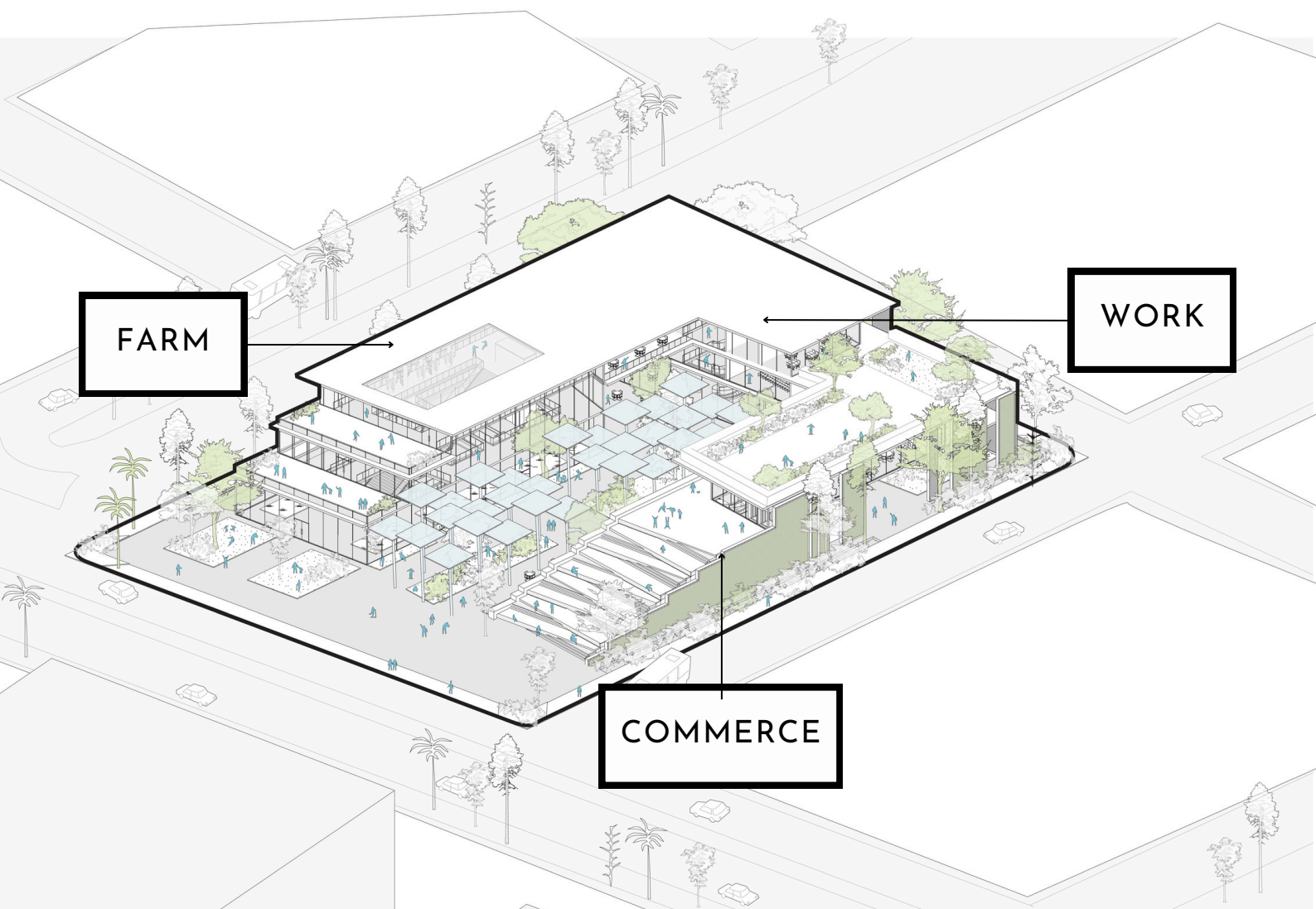
Instructors: Ms. Rasha Farsi

Notable Project: Khadeja Al-Kaf





Instructors: Ms. Rasha Farsi
Notable Project: Deema Waheeb

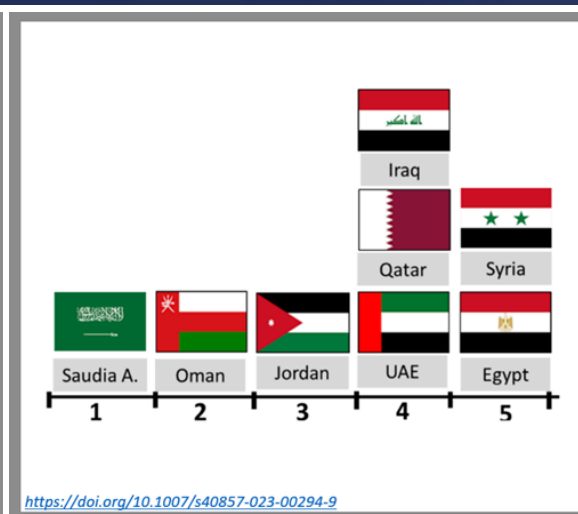


FACULTY RESEARCH



Exploring Soundscape and Inclusive Design: Dr. Djihed Berkouk's Research Highlights

During the 2022-23 academic year, Dr. Djihed Berkouk co-authored three scientific papers indexed in the Scopus database during the academic year 2022-2023. In addition to “A Review of Noise Pollution Policies in the Arab World,” which was published in Acoustics Australia, he also co-wrote “Assessment of Sighted and Visually Impaired Users to the Physical and Perceptual Dimensions of an Oasis Settlement Urban Park” in Sustainability as well as “Evaluation of Soundscape Variations through the Open Public Spaces in Saharan Cities: A Case of Biskra, Algeria” in Environmental Research, Engineer and Management. In line with Saudi Arabia's Vision 2030 objectives, Dr. Berkouk sought to collaborate with researchers from several other universities using advanced methods and tools to assess the soundscape and to promote inclusive design in oases. He also conducted a review of soundscape and noise pollution legislation in the Arab world, with the aim of formulating Saudi-specific recommendations for future research. In addition, during the Spring 2023 semester, Dr. Berkouk achieved 100 citations (h-index=6; i10-index=5) on the Google Scholar platform, a significant scholarly attainment. Furthermore, as part of his academic service, Dr. Berkouk reviewed seven scholarly articles for MDPI, a publisher of open access international journals.



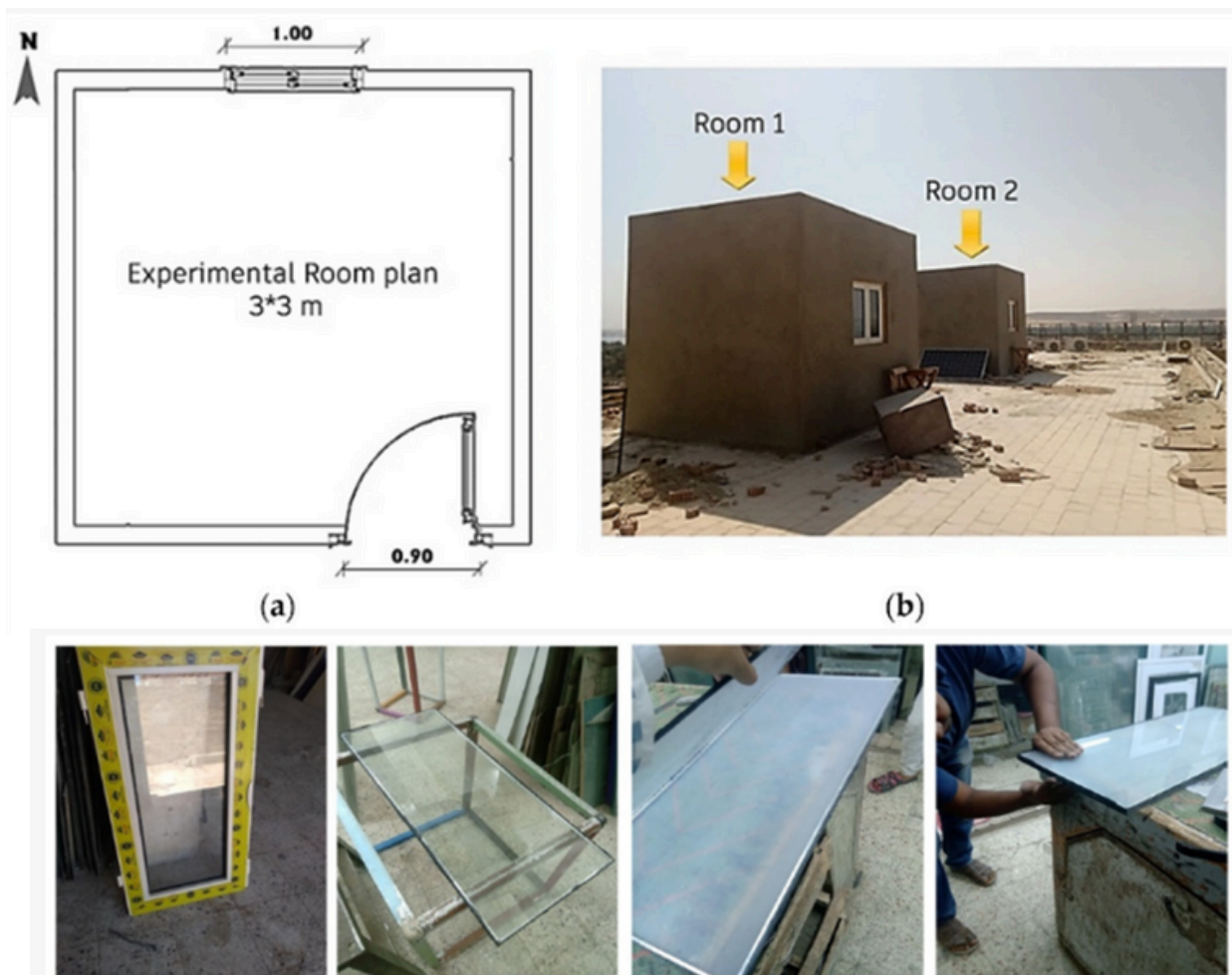
Advancing Energy Efficiency in Hot Arid Climates using Aerogel Glazing Systems

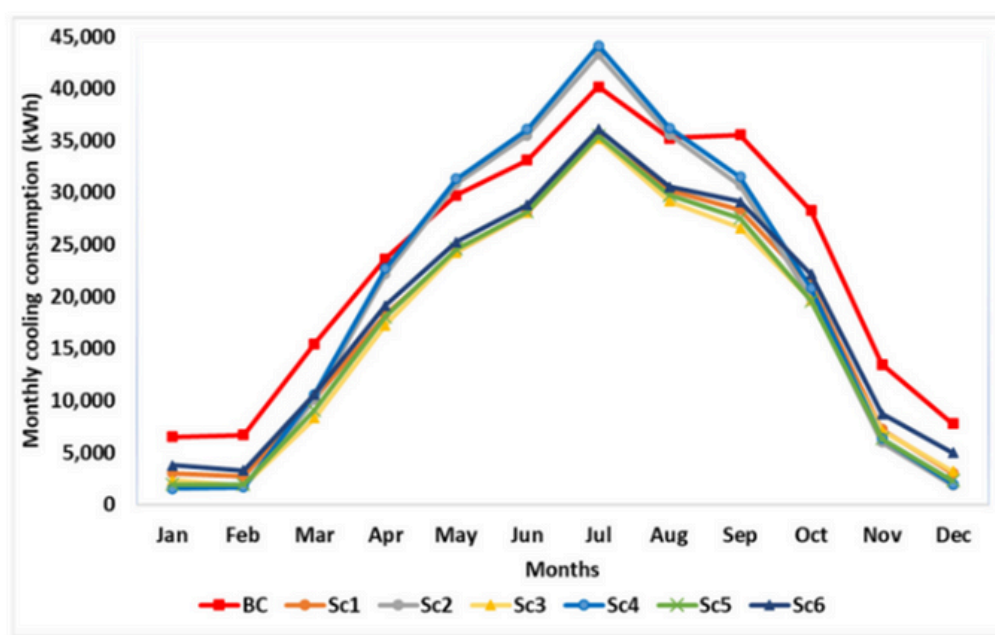
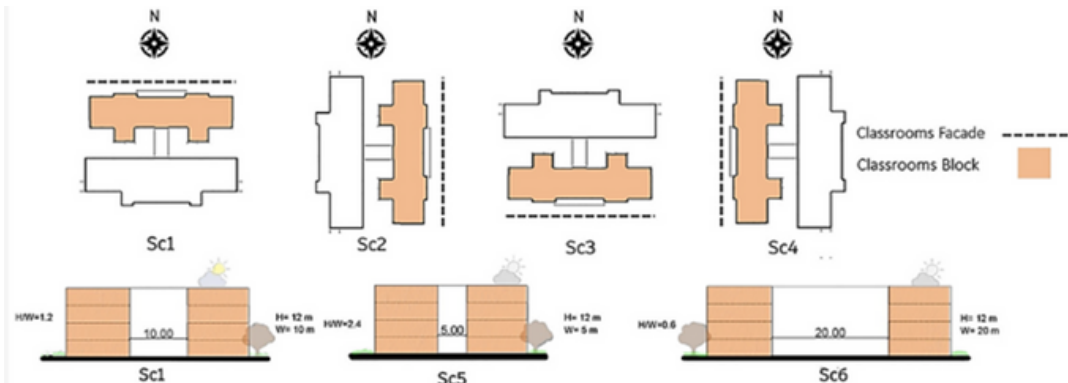
Dr. Mohammed Gomaa's Research Highlights

We are thrilled to share the latest research publication by Dr. Mohammed Gomaa, titled "**Energy, Thermal, and Economic Benefits of Aerogel Glazing Systems for Educational Buildings in Hot Arid Climates**," has been published in the prestigious journal Sustainability, with a Journal Rank of Q2 and a CiteScore of Q1.

In this study, Dr. Gomaa explores the potential of nanomaterial-based external window insulation, specifically aerogel-based glazing systems, to enhance energy efficiency in buildings located in hot arid climates. The research combines field measurements and energy simulations to analyze the effectiveness of aerogel-filled windows in conjunction with passive design techniques.

Specific scenarios were examined to determine the optimal configuration. This work highlights the transformative potential of aerogel glazing systems in buildings located in hot arid climates. His research not only offers practical strategies to reduce energy consumption and improve thermal comfort but also emphasizes the importance of adopting ecologically sustainable solutions for the benefit of both the environment and our wallets.





Unlocking Cultural Heritage with Augmented Reality

Ms. Sima Refae's Research

During the 2022-23 academic year, Ms. Sima Refae was the first author of "Augmented Reality (AR) for Urban Cultural Heritage Interpretation: A User Experience Evaluation," a Scopus indexed scientific article published in *Research and Innovation Forum 2022*. Her research aligns with the Kingdom of Saudi Arabia's Vision 2030 in several ways. Vision 2030 aims to promote cultural heritage and tourism in the country and the use of AR in heritage interpretation can contribute to achieving this goal by enhancing the visitor experience and promoting a deeper understanding and appreciation of Saudi Arabia's cultural heritage. Her research also aligns with Vision 2030's focus on using innovation and technology to drive economic growth and diversification. Overall, her research has the potential to support the goals and objectives of Vision 2030 by promoting the preservation, promotion, and sustainable development of Saudi Arabia's cultural heritage.

https://link.springer.com/chapter/10.1007/978-3-031-19560-0_23#citeas

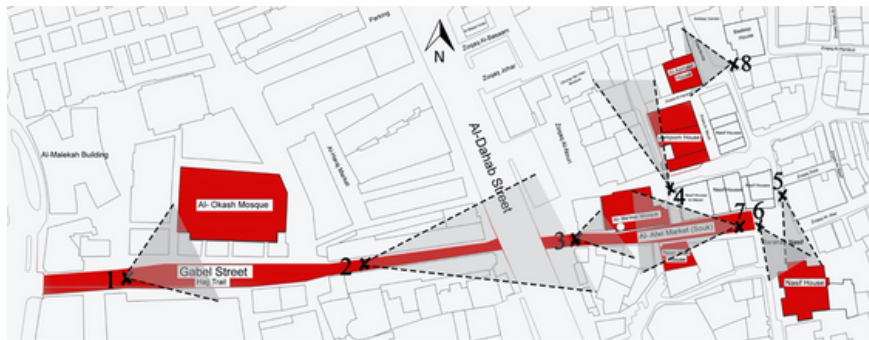


Figure 5: The AR Path Simulation (Author, 2019)

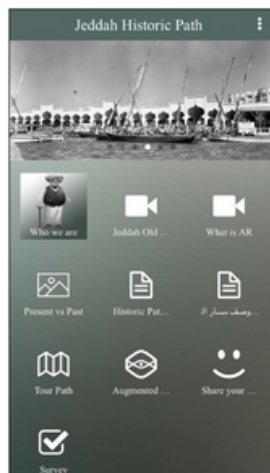


Figure 6: Mobile app design and features (Author, 2019)

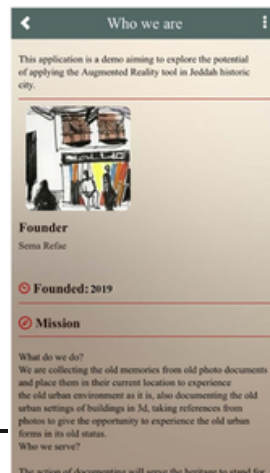


Figure 7: The Who We Are page includes the Mission, Vision, and Value (Author, 2019).



Figure 8: The Tour Path page includes a link for each stop on Google maps (Author, 2019)

Fostering Creativity in Architectural Education:

In addition, during the Spring 2023 semester, Ms. Sima Refae presented the paper "Integrating Creativity in Teaching Architecture" at the Creativity in Teaching and Educational Leadership Conference at Dar Al-Hekma University, in which she delved into the importance of teaching creativity in architecture and the various methodologies that can be employed to enhance students' creative abilities. Her study was based on the best practice of teaching creativity in architecture found in the literature as well as on her five years of experience teaching architecture courses and on her analysis of observed student outcomes and project results. Her paper identified the pros and cons of each method and suggested guidelines and a framework for teaching creativity. She also recommended developing these guidelines in future research by conducting a pilot test to determine the most effective ways to incorporate them and measure their impact on student learning outcomes. Future research could focus on developing the identified guidelines and best practices. By doing so, the field can continue to evolve and optimize its pedagogical approaches, leading to better outcomes for students and the profession.



II. TALKS AND WORKSHOPS



A. HOW TO GENERATE A CONCEPT

B. A WORKSHOP ON CHAOS® CORONA

C. HOW TO THINK ARCHITECTURE

**D. A WORKSHOP ON BUILDING CODES,
STANDARDS, AND REGULATIONS**

**E. URBAN METABOLISM AND URBAN PLANNING:
CHALLENGES, POTENTIALS, AND PARADOXES
OF WASTE LAND REUSE**

HOW TO GENERATE A CONCEPT

On the 1st of February, Arch. Abdulmohsin Adas organized a workshop to enhance the design creativity of the 50 architecture students in attendance. Using the Tornado Tower in Doha, Qatar, as an example, he showed the crucial role design concepts play in generating innovative and striking works of architecture.



A WORKSHOP ON CHAOS® CORONA

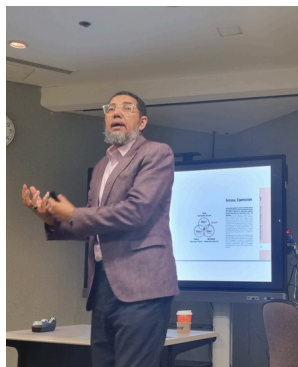


On the 7th of February, the Architecture Department arranged a workshop on Chaos® Corona with the Design Zone for 17 architecture students. An important aspect of being an architect is the ability to create architectural visualizations. Students who participated in this workshop learned the fundamentals of 3D Max and Chaos Corona programs, which enabled them to create realistic architectural models.



chaos
Corona

HOW TO THINK ARCHITECTURE



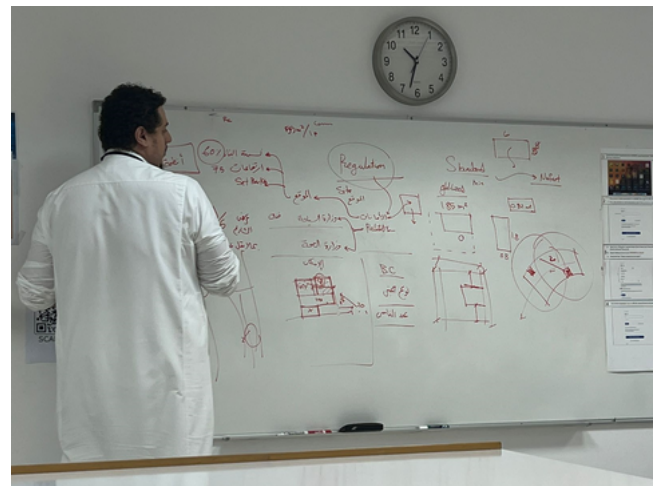
On the 20th of February, Dr. Mohamed Fekry was invited to give a talk to architecture students about his book *How to Think Architecture: Inspirational Notes to Architecture Students*, which was co-written with Dr. Mohsin Ibrahim. This book is based on the authors' extensive academic and professional experience in the field of architecture and covers a range of topics from theory to practice. Dr. Fekry discussed the importance of thinking creatively and the context in which graduates will work.



A WORKSHOP ON BUILDING CODES, STANDARDS, AND REGULATIONS

The Architecture Department hosted a workshop on Building Codes, Standards, and Regulations, led by Arch. Abdulmohsin Adas, co-founder of Adas & Gabson, an architecture firm based in Jeddah. Arch. Adas brings a wealth of practical and theoretical knowledge to this important topic.

The workshop, which took place on March 1st, covered a range of issues related to Saudi building codes, standards, and regulations, including their importance of ensuring public safety, their impact on architecture design and the construction processes as well as the challenges and opportunities they present for architects and builders. Through a combination of a lecture, case studies, and interactive discussions, participants gained a deeper understanding of this critical aspect of the architecture profession.



URBAN METABOLISM AND URBAN PLANNING: CHALLENGES, POTENTIALS, AND PARADOXES OF WASTE LAND REUSE

On the 28th of March, Eric Verdeil, Full Professor in the School of Urban Affairs at Sciences Po in Paris, visited Dar Al-Hekma University to deliver a lecture entitled "Urban Metabolism and Urban Planning: Challenges, Potentials, and Paradoxes of Waste Land Reuse." As an expert in urban planning and environmental studies, Professor Verdeil delved into the complex and timely topic of waste land reuse, exploring the challenges and potentials of this approach to sustainable urban development. Drawing on his extensive research and practical experience in the Arab region, he offered insights into the paradoxes of urban metabolism and the ways in which waste land reuse can be repurposed to create livable, sustainable, and resilient areas.



III.VISITS AND TRIPS



- A. COMPUTATIONAL ARCHITECTURE WORKSHOP
AT KAUST**
- B. STUDIO II SITE VISIT TO WADI GHIA AND UM
HABLEEN**
- C. A FIELD TRIP TO THE SAUDI RED BRICK CO.
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- I. A FIELD TRIP TO DAMMAM'S AL-MURJAN
ISLAND**
- J. AL BALAD TRIP**

COMPUTATIONAL ARCHITECTURE WORKSHOP AT KAUST



From January 29 to February 2, the Visual Computing Center at King Abdullah University of Science and Technology (KAUST) organized a workshop for undergraduate architecture students in Saudi Arabia on computational architecture to strengthen the link between architecture and science and, thereby, enable students to design more expressive forms, fluid spaces and sustainable buildings. Four students from Dar Al-Hekma University's Architecture Department participated: Ruaá Omar and Maryam Bagaber from Studio V, Naseem Hussein from Studio IV, and Nouran Alharazi from Studio II. An international array of experts in visual computing shared their interdisciplinary research on geometry, computer graphics, machine learning, modeling, simulation, and visualization with students. In addition to attending lectures and digital tutorials on Rhinoceros 3D and Grasshopper, students had access to KAUST's state-of-the-art facilities for digital fabrication and rapid prototyping to build physical models of deployable grid shells and web structures.



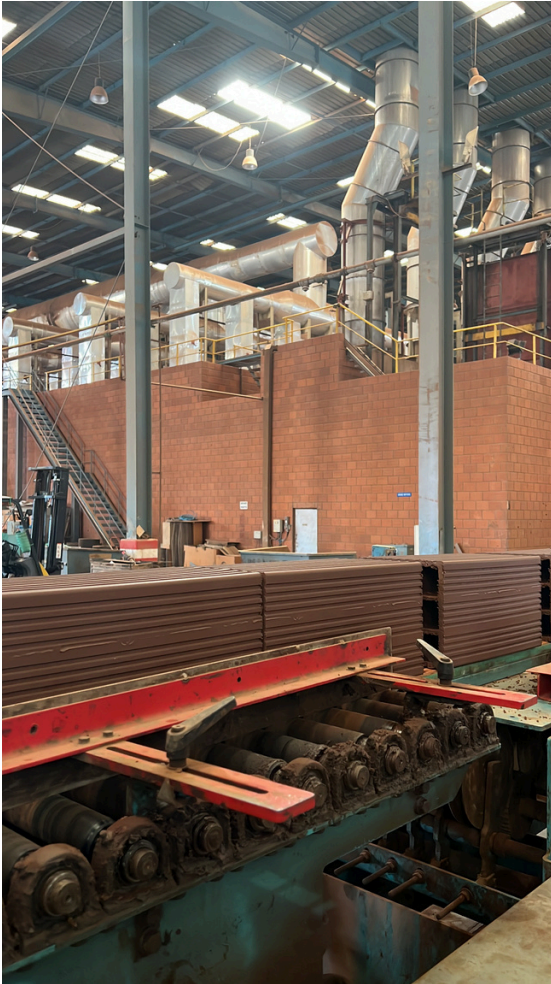
STUDIO II SITE VISIT TO WADI GHIA AND UM HABLEEN



On the 4th of February, Dr. Djihed Berkouk organized a site visit to Um Hableen and Wadi Ghia for students in Studio II: Small Scale Buildings and Sustainability course (ARCH 2502) with the assistance of Ms. Sima Refae and Ms. Alanoud Aljadaani. The trip was conceived to help students analyze the surrounding environment in terms of accessibility issues as well as to better understand the potential benefits and challenges of building a house on a sloped site. In addition, students had the opportunity to palpably envision different ways in which to integrate their house in an environmentally friendly manner with its surroundings.



A FIELD TRIP TO THE SAUDI RED BRICK CO. IN BAHRA



On the 7th of February, Dr. Shifana Kaafil organized a field trip for her six Materials and Methods of Building Construction I students to the Saudi Red Bricks Co. factory in Bahra, roughly 45 km east of Jeddah. Students had the opportunity to visualize in person the manufacture of brick blocks, a process that involves mixing different types of clay, selecting the size and shape of the blocks, cutting the blocks, firing the blocks in a kiln to reduce the moisture content, and efficiently packing the blocks with the assistance of robotic arms. Following the field trip, students produced a report summarizing the complex multi-step process of brick manufacturing that they witnessed in person.



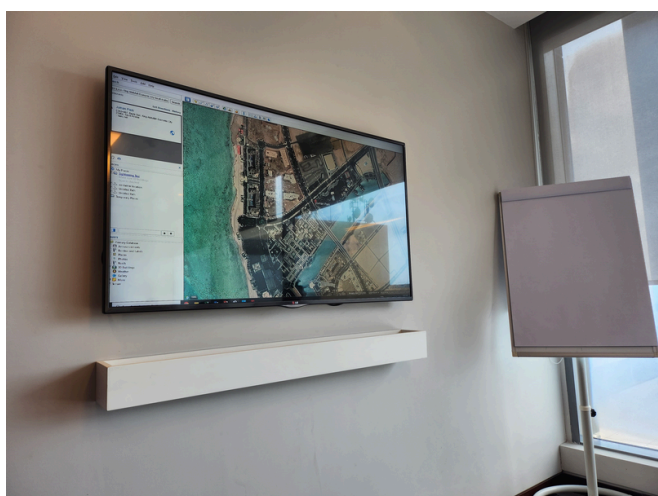
FIELD TRIPS TO THE AVENUE MALL CONSTRUCTION SITE



On the 9th of February, Dr. Shifana Kaafil took six students from her Materials and Methods of Building Construction I course (ARCH 2305) and 14 students from her Structural Design course (ARCH 3303) to visit the construction site of Avenue Mall in Al-Muhammadiyah District in Jeddah. Students in the Materials and Methods of Building Construction I had the privilege of an in-person introduction to the variety of building materials used in contemporary commercial projects as well as to the key structural components in a reinforced concrete building, including slabs supported by columns and beams and the core, which contains interior elements, such as elevators, stairs, and utilities. The Structural Design students focused on the different types of building services that help ensure a structure is comfortable, efficient, and safe. They paid particular attention to the fire safety and plumbing services as well as the size of columns and beam span, which are determined by safety codes.

The following week on the 16th of February, Dr. Shifana Kaafil visited the Avenue Mall construction site again, this time with 16 students in her Materials and Methods of Building Construction II course (ARCH 2309). They had the opportunity to view different types of construction materials, various methods of curing and waterproofing concrete, and the process of post-tensioning prestressed concrete.

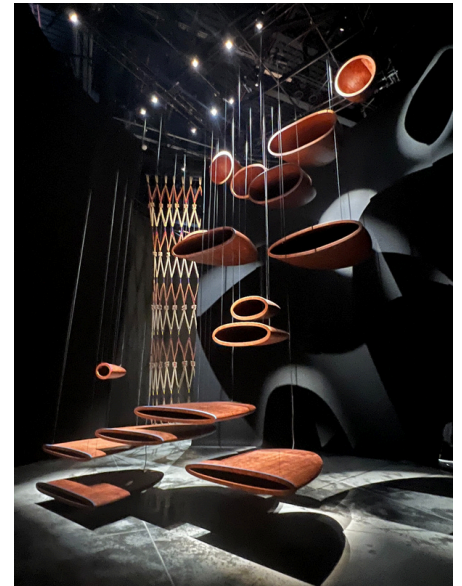
STUDIO VI FIELD TRIP TO KING ABDULLAH ECONOMIC CITY

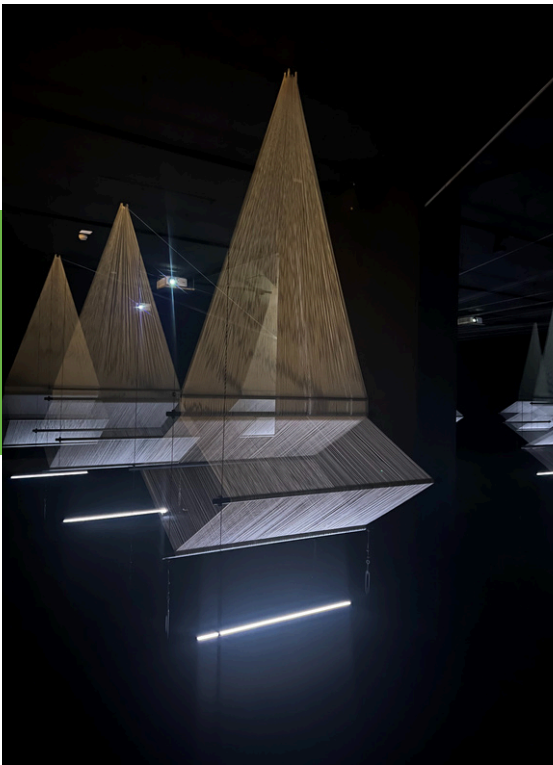


On the 12th of February, Ms. Suman Faruqui organized a field trip to King Abdullah Economic City (KAEC) to introduce the nine students from Studio VI: Comprehensive Design (which she co-taught with Dr. Nader Azab) to a possible site for designing a hybrid office of the future, which are frequently described as “office incubators.” In response to Vision 2030, Jeddah’s universities intend to play a major role in the futures of their graduates as well as in the city’s entrepreneurial growth by establishing cutting-edge business incubator centers that link young entrepreneurs with strategic investors, partners, and sponsors, thereby accelerating the process of creating successful start-up businesses. Business incubator centers are a new and evolving type of office space, which allows students flexibility in developing the set of requirements for the design. Their program should include, but is not limited to: flexible office spaces, meeting and convention facilities, administrative areas, furnished apartments, indoor and outdoor recreation and entertainment spaces, as well as service areas.

A FIELD TRIP TO THE ISLAMIC ARTS BIENNALE

On the 15th of February, students from Dr. Tamsen Anderson's History of Islamic World Architecture (ARCH 2308) visited the inaugural Islamic Arts Biennale accompanied by Ms. Alanoud Aljadaani and Ms. Amal Alhumrani. Held at the Hajj Terminal of King Abdulaziz International Airport in Jeddah, the gateway for pilgrims traveling to Mecca and Medina for Hajj, the Islamic Arts Biennale celebrated the artistic, cultural, and intellectual achievements that trace their origins to the House of Allah, Awwal Bait ("First House). The field trip proved informative as well as inspirational. Sumayya Vally, the Islamic Arts Biennale's Artistic Director, is the founder and principal of Counterspace, a South African architecture and research firm, and in 2021, became the youngest architect appointed to design the prestigious Serpentine Pavilion in London.





Some students, who had the opportunity to meet Ms. Vally during an earlier visit to the Islamic Arts Biennale, used the visit to more fully appreciate her artistic vision, which situates historic Islamic artifacts and artworks and contemporary Islamic installation art under the Hajj Terminal's innovative cable-stayed fabric roof. Designed by Skidmore, Owings and Merrill in 1981, the Hajj Terminal received the Aga Khan Award for Architecture in 1983. Students also had the opportunity to experience the desert-like scenography inspired by the Hijrah, which was designed by the Office for Metropolitan Architecture (OMA), founded by the Pritzker Prize winning Dutch architect Rem Koolhaas. Students greatly appreciated the conceptual and artistic works of installation art, but their greatest praise was reserved for rare historic Islamic architectural elements, including the gilded Ka'ba door commissioned by King Abdulaziz in the mid-20th century and the inlaid wooden stairs that once led to the Ka'ba.

A FIELD TRIP TO ENG. ABDUL AZIZ TAHER AL-HEBSHI'S GALLERY AND WOOD WORKSHOP

As part of the Architecture Department's Saudi Founding Day celebrations, Ms. Sima Refae organized a field trip for 20 students. On the 16th of February, they visited Eng. Abdul Aziz Taher Al-Hebshi's wood workshop in Jeddah's Al-Rawdah neighborhood. A retired agricultural engineer, Eng. Al-Hebshi has created an exhibition space in his house to display miniature wooden models of the Kingdom's historic architecture, which he designed and built to preserve the memory of everyday life in Jeddah and Makkah during the first half of the 20th century. The models on display include vernacular houses and shop, some of which served traditional Saudi fare. Viewing the models provided a context for understanding traditional social life in historic neighborhoods in the Hejaz region. During the tour of his wood workshop, Al-Hebshi discussed the intricate process of fabricating wooden architectural models. His dedication to his craft and his mission to preserve the Kingdom's architectural and cultural history served as an inspiration for the students.





EXPERIMENTAL INVESTIGATIONS INTO SUSTAINABLE CONCRETE

Each semester in her Materials and Methods Construction II (ARCH 2309) course, Dr. Shifana Kaafil has students attempt to develop sustainable concrete by mixing different percentages of a wide variety of waste materials—in the form of fibers and powder—with cement. This semester, students are experimenting with avocado and watermelon seeds, chestnut and sunflower shells, seaweed, expired make-up powder, and plastic wrap. On the 28th of February, students performed a several tests, including dry and wet density tests, a water absorption test, and a compressive strength test, at the Solutions and Mining Laboratory in Jeddah. From these tests, students found seaweed is unable to bond with cement whereas the cube with plastic wrap fibers had the greatest compressive strength of all the different concrete mixtures.



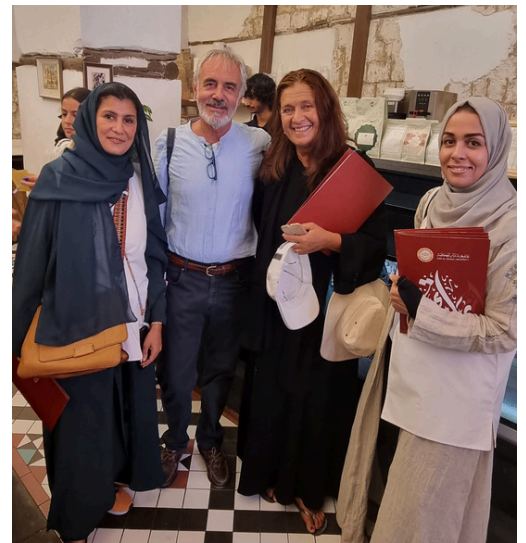
FIELD TRIP TO DAMMAM'S AL-MURJAN ISLAND

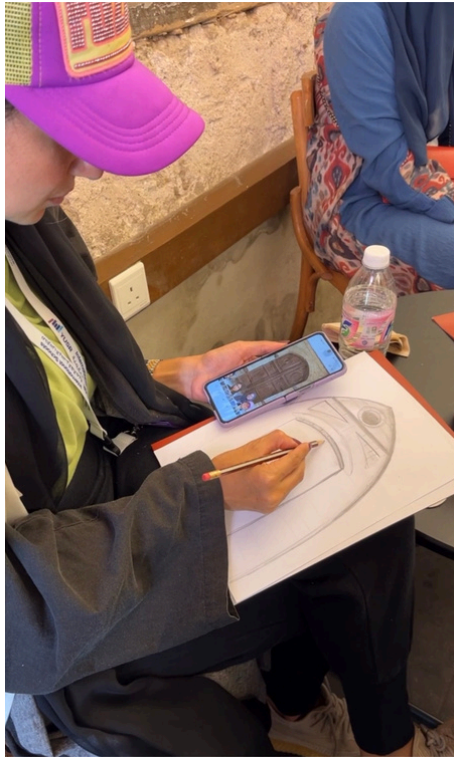
As part of her Livable Cities course (ARCE 4303), Ms. Sima Refae organized a visit for seven students to the city of Dammam in eastern Saudi Arabia from March 1 to 3. In collaboration with the Ministry of Culture's Quality of Life Program, the students were tasked with proposing enhancements to the Al-Murjan waterfront site in Dammam, giving them the opportunity to apply the knowledge and skills they have gained in the Livable Cities course to a real-world project and allowing them to contribute to the development of the public realm in a meaningful way. Students will work collaboratively to develop proposals that address the challenges and opportunities of the site, considering the needs and aspirations of the community. Their proposed development of the waterfront will focus on improving the social and activity aspects of the area, making it more accessible, as well as on enhancing the network, character, and visual elements of the waterfront. These enhancements aim to create a more livable, vibrant, and sustainable waterfront that can be enjoyed by all members of the community.



AL BALAD TRIP

On the 14th of March, Ms. Sima Refae and Ms. Shatha Abualfaraj organized a trip to Al Balad for 25 high school students from Al Yusr International School in collaboration with the Alkuttab Arabic Center. With the assistance of senior architecture students, the high school students were introduced to Jeddah's historic architecture by playing a door-hunting game in which they learned about the distinctive design of the doors in Al Balad's vernacular buildings. As part of the game, students sketched the doors they discovered. The event was part of the Architecture Department's outreach efforts to expand high school students' understanding of the design fields of architecture, interior design, and visual communications as well as to deepen their appreciation of Jeddah's culture and heritage and to encourage the development of their creative skills and thinking.





IV. OTHER EVENTS



**A. MEMORANDUM OF UNDERSTANDING SIGNING
WITH THE INTERNATIONAL HOSPITALS
CONSTRUCTION CO.**

**B. THE ARCHITECTURE DEPARTMENT'S SPRING
SEMESTER WELCOME EVENT**

**C. CELEBRATING SAUDI FOUNDING DAY
THROUGH ARCHITECTURE AND DESIGN**

MEMORANDUM OF UNDERSTANDING SIGNING WITH THE INTERNATIONAL HOSPITALS CONSTRUCTION CO.

On the 19th of January, Dar Al-Hekma University's Architecture Department signed a Memorandum of Understanding (MOU) with the International Hospitals Construction Co. (IHCC), which was arranged by Dr. Mohammed Gomaa, the Chair of the Architecture Department, and Ms. Shatha Abualfaraj. The signing ceremony was attended by representatives from both organizations. The MOU was signed by Acting Provost Dr. Eiman Kurdi and Arch. Sultan Al-Batterjee, CEO of IHCC. The MOU outlines the areas of collaboration, which include but are not limited to:

- Providing training and professional development opportunities for students and faculty
- Sharing knowledge and expertise on the latest industry trends and technologies
- Participating in conferences, workshops, and other events related to healthcare architecture

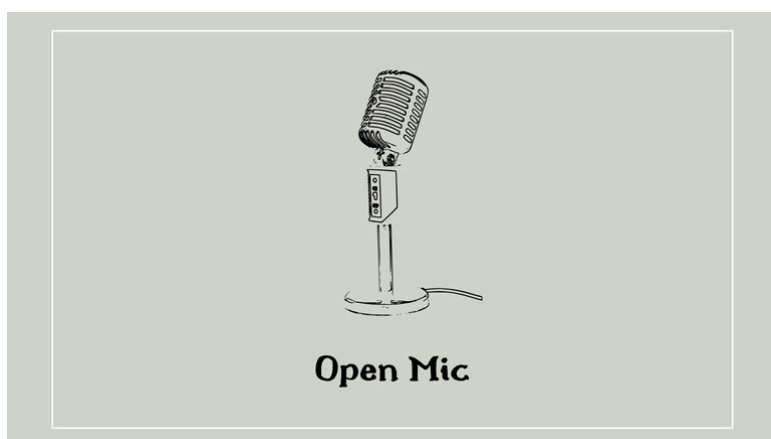
This partnership is a significant step forward for Dar Al-Hekma University's Architecture Department, as it will provide students and faculty with access to valuable resources and expertise. We are excited about this partnership and look forward to the opportunities it will provide for our students, faculty, and the wider community.



THE ARCHITECTURE DEPARTMENT'S SPRING SEMESTER WELCOME EVENT

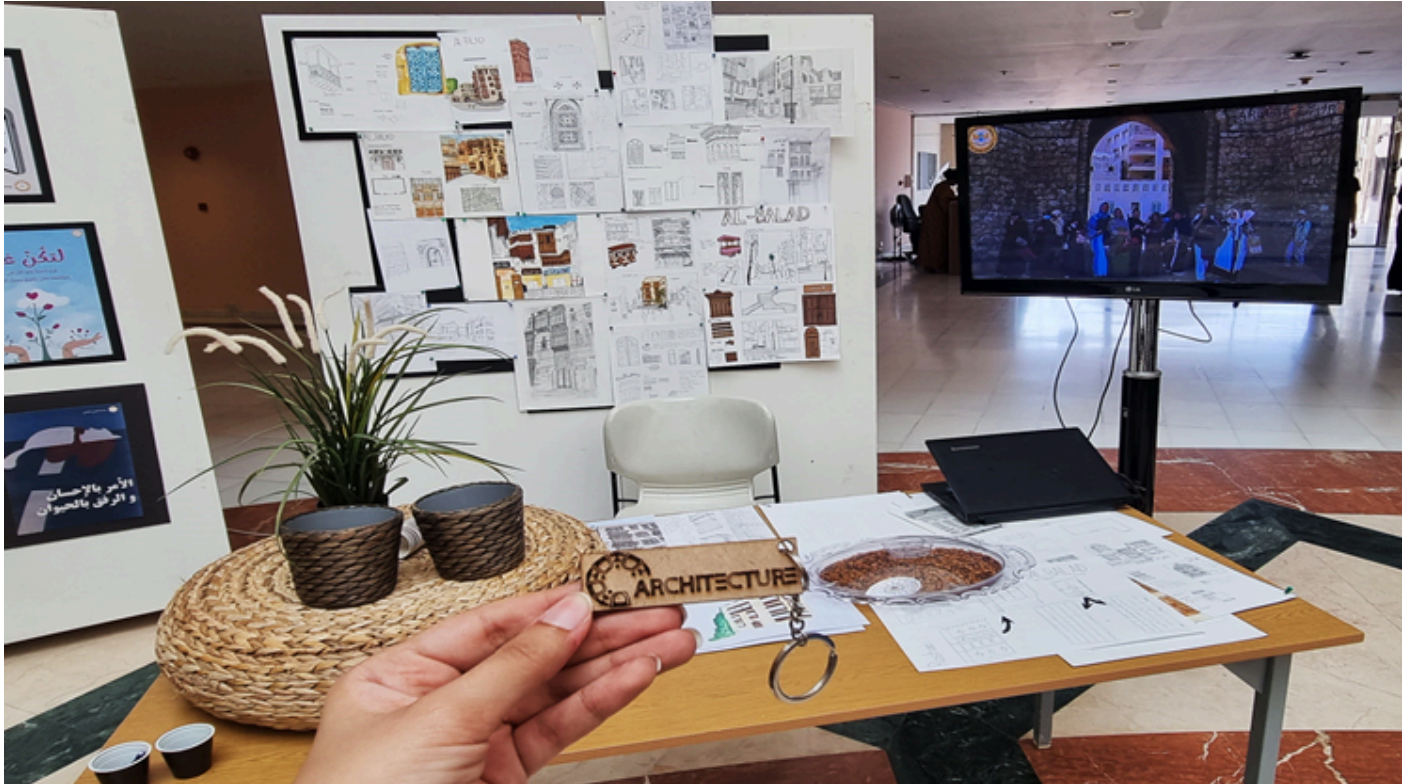


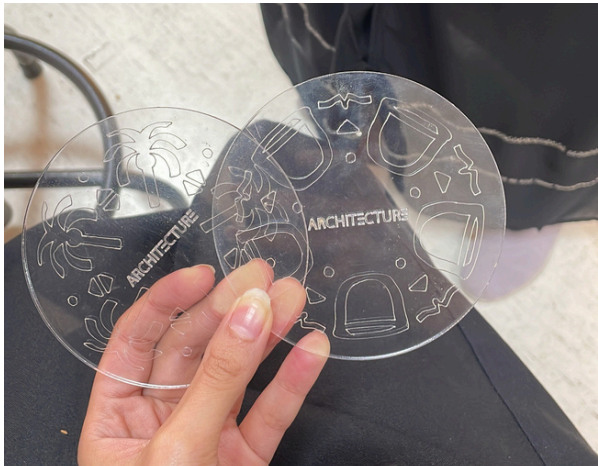
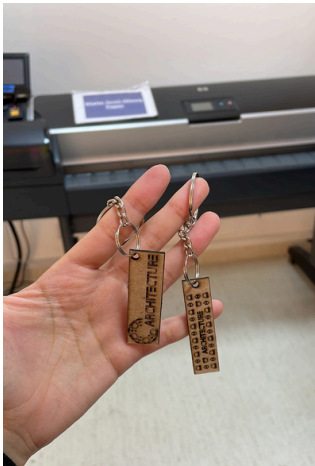
On the 1st of February, the Architecture Department organized a special gathering for architecture students to kick off the spring semester. After introducing themselves in their new administrative roles, Department Chair Dr. Mohammed Gomaa and Dr. Nader Azab, the Program Director of the Bachelor's Program, invited students to raise questions they had about the upcoming semester. Dr. Shifana Kaafil, Dr. Tamsen Anderson, Ms. Shatha Abualfaraj, Ms. Sima Rae, and Ms. Suman Faruqui were also in attendance to answer students' questions. Following the Q&A sessions, students were challenged to test their knowledge of architecture in a quiz on Kahoot!, a game-based learning platform that helps engage students in learning in a playful way.



CELEBRATING SAUDI FOUNDING DAY THROUGH ARCHITECTURE AND DESIGN

On the 21st of February, the Architecture Department participated in Saudi Founding Day by celebrating the Kingdom's vernacular architecture. Ms. Sima Refae organized the event with the assistance of Ms. Alanoud Aljadaani, Ms. Amal Alhumrani, and Ms. Wejdan Abdrabuh. They set up a panel in the University's main hall to showcase drawings of Al-Balad by the 10 architecture students who accompanied Ms. Sima Refae on an urban sketching trip two days before the national holiday. The exhibit also included a short video of the Al-Balad trip shot and edited by Ms. Wejdan. It captured the excitement of the trip and offered insight into the historic significance of Jeddah's vernacular architecture and urbanism. Ms. Alanoud, Model Shop Assistant, made wooden cup coasters and keychains embossed with the word "Architecture," which were distributed as souvenirs to highlight the Kingdom's notable design history.





V. QUTUF: A CREATIVE HARVEST



A. PARAMETRIC BENCH AND WALL

PARAMETRIC BENCH AND WALL

Toulin Tabbash





Dar Al-Hekma University
School of Design and Architecture
Architecture Department

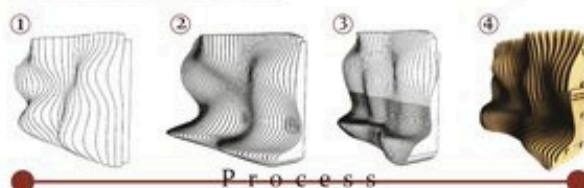
PARAMETRIC BENCH & WALL

Designed by: Toulis Tabbash
ID: 1810033
Supervised by : Ms. Shatha Abualfaraj

CONCEPT

Dar Al-Hekma University's Architecture Department lacks seating and waiting areas. Therefore, I will design a bench wall as a comfortable and space efficient booth seating option, which will enhance the social environment.

DESIGN PROTOTYPE



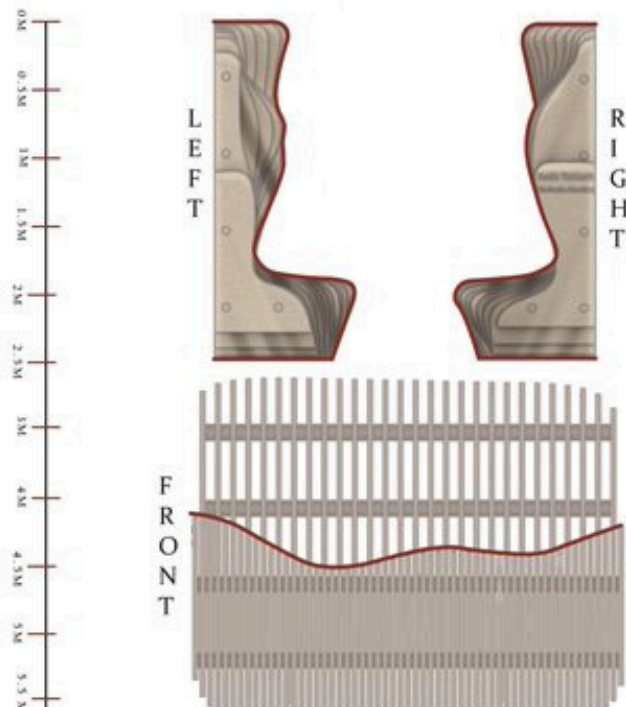
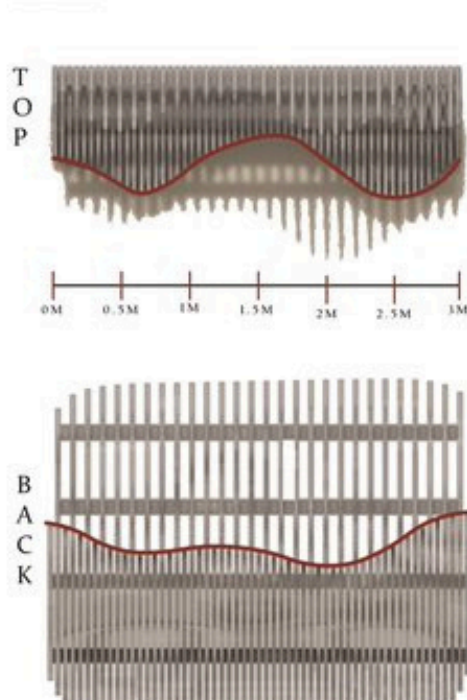
THE SCRIPT



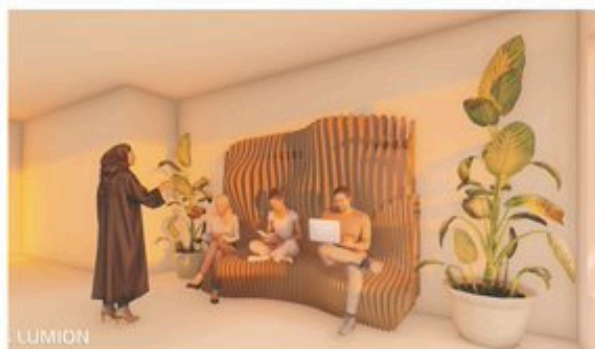
PRICE ESTIMATION

Boards	57 B x 120 SR= 6840 SR
Board Size - 3.20x12.20 M	↑ They will be included with 57 boards
Spacers	5 C x 100 SR= 500 SR
Diameter - 5 Cm	
Columns	57 B x 20 SR= 1140 SR
Length - 200 m	
Cutting Surface	100 SR
Delivery Surface	
Total	8980 SR

VIEWS



3D RENDER SHOTS



VI. CREDITS AND CONTACTS



NEWSLETTER CREDITS

 Dr. Mohammed Gomaa, Editor-in-Chief

Dr. Tamsen Anderson, Managing Editor

Ms. Amal Alhumrani and Ms. Wejdan Abdrabuh, Co-Editors

Ms. Alanoud Aljadaani, Layout Design

Ms. Alanoud Aljadaani, Logo Design

Featured cover photo is a 3D shot of Alumna: Khadega Al-Kaf's Capstone project.



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