جامصة اليمامة AI Yamamah University

# **CH-Y DEPARTMENT OF** ARCHITECTURE

### **COLLEGE OF ENGINERING AND ARCHITECTURE**

目 目前目的とう

2024

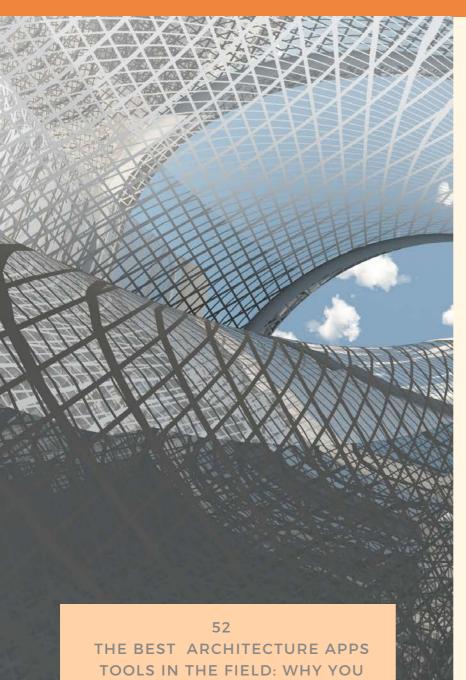


**ISSUE 2** 2022-2023

#### MAGAZINE

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# ABOUT US

#### College of Engineering & Architecture

A 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.

#### Mission

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

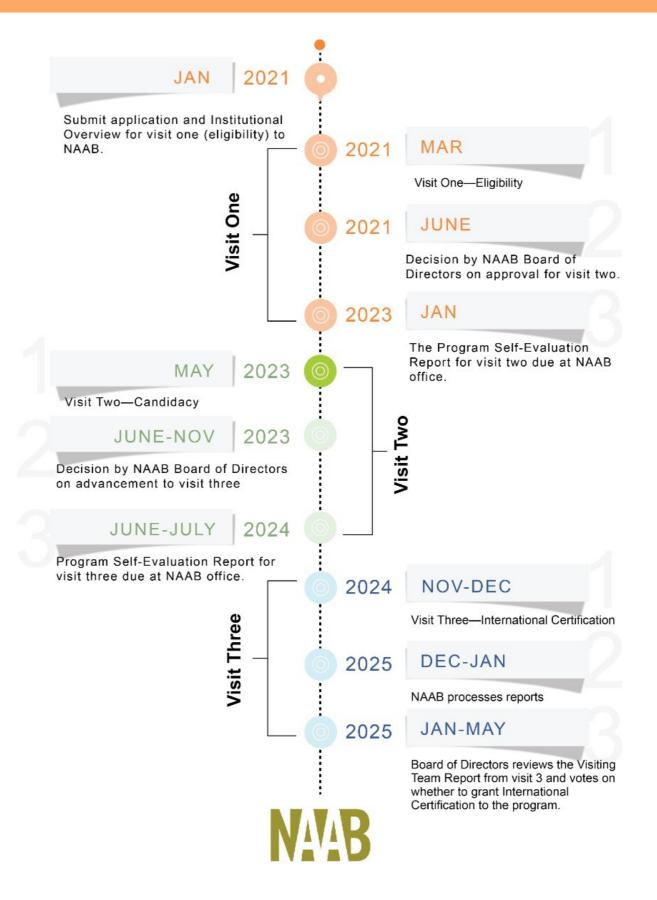
#### Vision

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

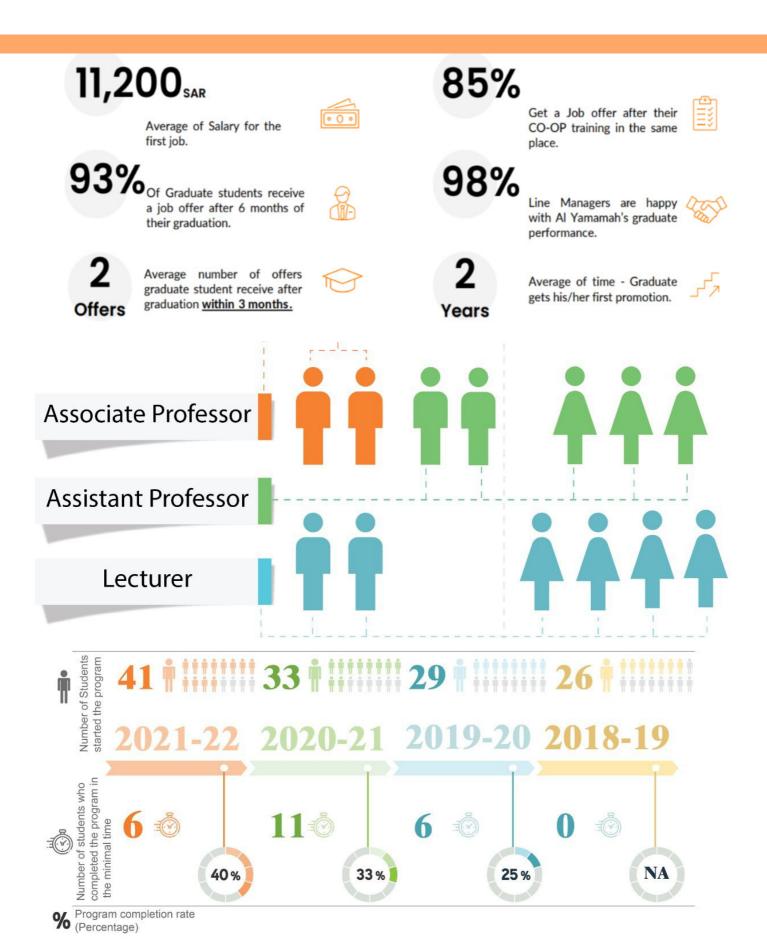
#### NAAB

The Al Yamamah University Department of Architecture/College of Engineering and Architecture is 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



### **OUR TEAM**

#### Dr. Hessah Alsalamah

Dean

Dr. Hessah Alsalamah is the Dean of the College of Engineering and Architecture, and the Acting Dean for the College of Computer and Information Sciences at Al Yamamah University. She is the Chair of both Colleges' Council, a member of the Dean Council, and Al Yamamah University Council. Dr. Hessah is also a faculty member in the College of Computer and Information Sciences and Consultant of King Abdullah's Institute for Research and Consulting Studies at King Saud University.

#### Dr. Dalia Abdelfattah

Head of Department

Dr. Dalia Abdelfattah is an architect and researcher in urban affairs. Dalia is an assistant professor and a researcher in **UN-HABITAT** Programme of Planners for Climate Action. Currently, working as Head of the architecture and interior architecture department (AIA), faculty of engineering and architecture (COEA), Al Yamamah University. In 2018, she obtained her PhD from Cairo University, Egypt, about how to motivate local community to participate in conservation programs.

#### Dr. Anwar F. Ibrahim Associate professor

Dr. Anwar Ibrahim is Associate Professor of architecture. In 2008, he moved to the USA and started his Ph.D studies in Architecture history and theory from the State University New York at Binghamton and earned his degree in 2015. After that, he returned back to Jordan to work as Assistant Professor at the College of Architecture and Design/Department of Architecture (JUST) before he was promoted to Associate Professor in 2021. He is also an active researcher

and published in high-rank pairreviewed indexed journals.

#### Dr. Majdi Alkhresheh Assistant professor

Majdi Alkhresheh, Ph.D. is an assistant professor in the faculty of Engineering and Architecture(CoEA), department of Architecture and Interior Architecture (AIA). Previously was the Chair and Assistant professor of architecture in the Department of Architectural Engineering, Alhosn University, Abu Dhabi UAE. Prior to that. Alkhresheh worked as assistant professor in Jordanian University of Science and Technology, Mu'tah University and Al-Isra' Private University in Jordan.

#### Dr. Ibrahim Abdelhady

Assistant professor

Dr. Ibrahim Abdelhady is an assistant professor in the faculty of Engineering and Architecture (CoEA), Architecture Department. Previously was in Virginia Tech (USA), Alexandria University (Egypt) and the American University of Cairo (Egypt). He obtained his BS in the architectural design, Alexandria University, Egypt, 1993-1998 (V.Good with Honor). He has Two PhDs in Architecture in the Digital Design and Building information management (BIM).

#### Dr. Mayas Ahmad

Assistant professor

Dr. Mayas is an assistant professor in the Faculty of Engineering and Architecture, (COEA), Department of architecture and interior architecture (AIA), her research interests include: architectural design, heritage conservation, urban design, landscape design & urban planning. She has more than 14 years of professional experience in teaching university-level courses, practice, and services projects that include projects in the area of construction, landscape projects, and heritage conservations.

#### Dr. Rahma Doheim Assistant professor

Dr. Rahma Doheim is an assistant professor in Architecture. Dr. Doheim has taught and practiced architecture in the USA, UK, and in the Middle East. She received her Ph.D. in the Built Environment from the University of Ulster in the UK., and her Master from the University of West Virginia in the USA. Her research interests lie in Architectural pedagogy, smart cities, Sustainable Mobility, and future city.

#### Mr. Anas Hussein

#### Lecturer

Anas Hussein is an Architect with a demonstrated experience of working in the education industry. Mr.Hussein joined YU as a lecturer since 2018,he is skilled in Sustainable Building Design. Strong research professional with a Master of Science (MSc) focused in Sustainable Buildings and Environments from Newcastle University.

### Mr. Abdullah Elshafie

Abdullah Elshafie is an architect who comes from a long line of architects. He is the fifth generation of architects in his family and third generation to teach architecture in Saudi Arabia. He is passionate about architecture especially in the fields of lean construction and construction contracts. He is also interested in the field of construction and risk management.

#### Ms. Noor Tayeh

Lecturer

Noor Tayeh is a lecturer in the faculty of Engineering and Architecture (CoEA), department of Architecture and Interior Architecture (AIA). She obtained her B.Acrh. in Architecture from The Islamic University- Gaza in 2007, and her MSc. in Architecture, from Jordan University of Science and Technology in 2012.

### Mrs. Esraa Samman

Esraa is a Saudi expat architect. She studied in Cairo, Boston, & Berlin. She obtained her bachelor & master degrees in Architecture from Wentworth Institute of Technology in Boston. She has been passionately involved in construction volunteering programs in Dominican Republic, Costa Rica, and Boston

### Mrs. Lara Rahim

Lara Is a highly committed lecturer with a great experience in teaching. A subject matter expert in civil engineering with more than two years hands on experience in the construction field.

A master's degree holder in structural engineering and minor in geotechnical engineering from the University of Balamand, Lebanon.

### Ms. Mahasen Alqahwaji

Mahasen is a passionate architect and creative designer with a Bachelor's degree in Architecture Engineering from Prince Sultan University, KSA (2017) and a Master's degree in Advanced Home Futures from Teesside University, UK (2022). She is also a member of the Saudi Council of Engineers and has experience in both teaching and practice of architecture.

### DR. HESSAH A. AL SALAMAH

Our College has come a long way since its establishment 2014. Today, the College of Engineering and in 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 B.Sc. programs: Architecture, accredited 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.

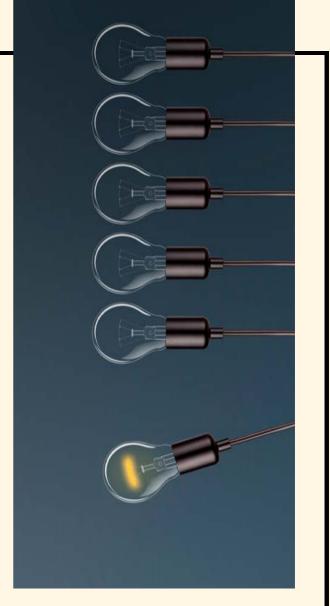
## CHAIRWOMAN Word

The spirit of the architecture academic life is about passion, knowledge, creativity, and engagement. I strongly believe that continuous improvement & self-evaluation are the keys to successful learning environment.

Within our Architecture and Interior Architecture department (AIA) it is what guide us in our everyday University life of teaching & research.

Our AIA philosophy is about setting high university standards for our students, and try to maintain, a very lively, engaged, and interactive classrooms.





What, personally, drives me is to retain continual personal contact with my students, where I can approach a constructive impact, with honest imprint, to guide them through life experience. As teaching is not just about lecturing; it is much more about presenting passion, concepts, ideas, and empirical materials, in a way that allow our students to integrate these informations their into academic life and future career experiences.

WRITTEN BY DR. DALIA ABDAL FATTAH

## 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.
- 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.

# SHAPING LEADERS OF TONORROW

## **AL YAMAMAH UNIVERSITY**

#### EXTERNAL ACTIVITY

Ministry of Municipal Rural Affairs & Housing

#### INTERNAL ACTIVITY

Metaverse Cities Event

#### EXTERNAL ACTIVITY

Ministry of Environment, Water and Agriculture

#### FIELD TRIP

The King Abdulaziz Center for World Culture "ITHRAA"

#### GUEST SPEAKER

Arch. Abeer Al Rayes, InDesign Adobe

#### EXTERNAL ACTIVITY

Wood Factory Workshop & Concrete Factory Tour Trip

#### WORKSHOP

Delivering Positive Architecture and Urban Environments

#### EXTERNAL ACTIVITY

"Van Cleef & Arpels: Time, Nature, Love" exhibition

#### WORKSHOP

Parametric design and digital fabrication modeling workshop

FIELD TRIP

KAPSARC 'Sustainability in Architecture'

#### ROME TRIP

Algorithm ROME Summer School in parametric kinetic design

# EPARTMENT EVENTS

#### INTERNAL ACTIVITY

Saudi Arabia Motifs Workshop

#### SEMINAR

Earthen Architecture Seminar

#### EXHIBITION

Exhibition of Big 5

GUEST SPEAKER

Arch. Nouran Osama, Photoshop Adobe

### MINISTRY OF MUNICIPAL RURAL AFFAIRS & HOUSING

Visit the Distinguished cities Projects Exhibition organized by the Ministry of Municipal Rural Affairs & Housing and participate in the accompanying workshops

### EVENT PICTURES



### WORKSHOP

# FACTORY

WOOD TOUR TRIP

INTING &

This trip introduces the process of wood designs, the manufacturing process, and the execution techniques for architectural elements such as doors and wall panels, as well as furniture.











# FACTORY

#### CONCRETE TOUR TRIP

Students of the Architecture department had a field trip to Al Tawi Concrete plant to learn about the manufacturing process of concrete involving preparing the raw materials, the mixing process, the transportation and testing materials for architectural elements such as doors and wall panels, as well as furniture.













This Workshop introduces the different types of printmaking as well as the process and techniques of creating your own designed hand-painting tool "Stamp" implementing Saudi motifs from different regions within Saudi Arabia.

ARCH-Y

### **WOOD STUD AND PARQUET FLOORING**

PA Students for the building construction 2 were requested to construct a wood stud wall and parquet flooring representing all the layers and materials.

www.yu.edu.sa

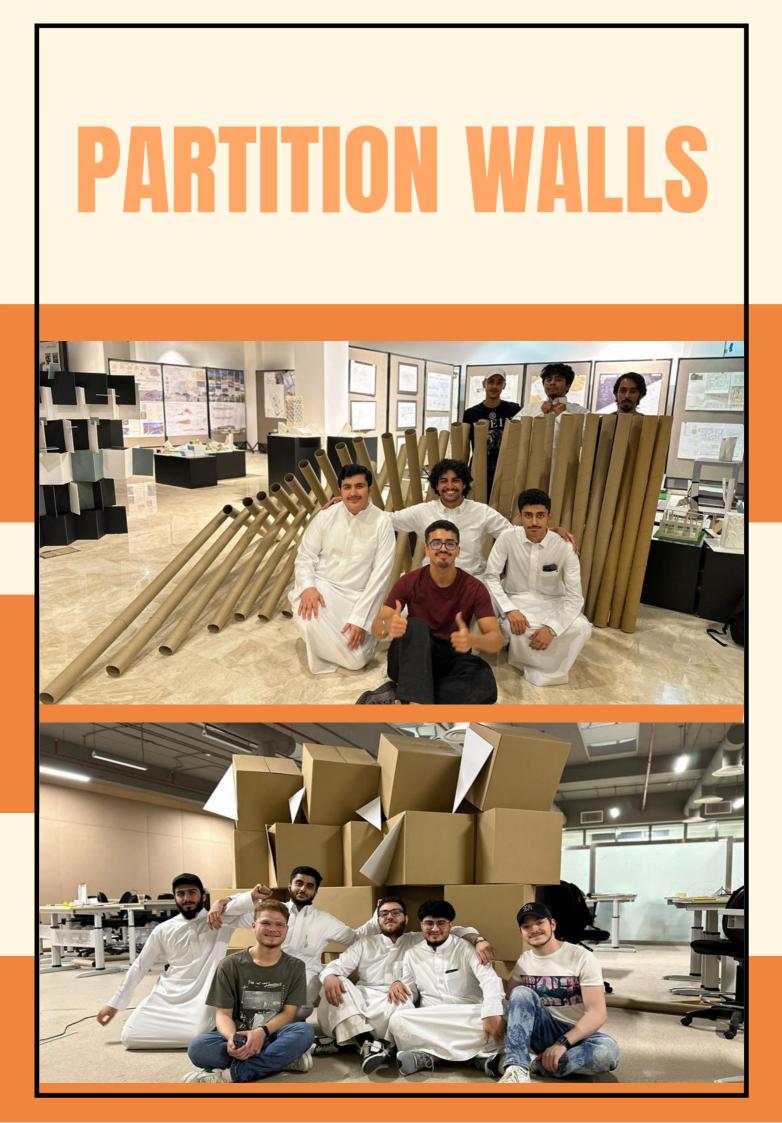














Students in group, designing partition walls scale 1:1 as part of ARCH111 course

# METAVERSE CITIES EVENT



Cities are now choosing to emulate themselves in the metaverse, beyond their " bricks and mortar" reality. Real life cities are built through centuries, yet metaverse cities are arguably, built in hours, so how do architects and designers factor topics such as sense of place, citizenship and heritage.

### DELIVERING POSITIVE ARCHITECTURE AND URBAN ENVIRONMENTS



TOTO DE LA COLORIA DE LA COLOR

## EARTHEN ARCHITECTURE SEMINAR



Earthen Architecture Seminar at Prince Nasser Palace, At-Turaif. History of building construction in Saudi Arabia





This Workshop introduces the different types of printmaking as well as the process and techniques of creating your own designed handpainting tool "Stamp" implementing Saudi motifs from different regions within Saudi Arabia.

## VAN CLEEF & ARPELS: TIME, NATURE, LOVE



Students of the College of Engineering and Architecture at Al-Yamamah University the "Van Cleef & Arpels: Time, Nature, Love" exhibition, which is a presentation of the High Jewelry Maison's universe at the National Museum of Saudi Arabia in Riyadh. The exhibition revolves around three themes that have been key to the Maison since its foundation in 1906: Time, Nature, and Love.

## THE BIG 5 SAUDI Exhibition



Visit for to the exhibition of Big 5 Which is a part of Saudi Arabia's largest construction event, the students had introduced of more than 15,000+ products exhibiting from over 40 countries providing them with solutions that can influence their study.  $+ \mathbf{K} \mathbf{U} \mathbf{U}$ 

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### KING ABDULAZIZ **CENTER**



YU Architecture Department, College of Engineering and Architecture has organized an educational trip to our pioneer students to ITHRAA culture center at AL Khobar, the trip included visiting the architecture monuments at AlEhsaa area and Tarout Island.









### **COMPETITION**



The Project is an urban design competition lunched by the Municipality of Al-Madinah Al-Munawwarah Region. The competition aims to Focusing on developing an architectural identity for Madinah that is in line with the heritage and history of the region. The competition site is located in Medina, southwest The Prophet's Mosque in Al-Asifrain neighborhood, about 1 km away from the Prophet's Mosque.











### PARAMETRIC DESIGN AND DIGITAL FABRICATION MODELING WORKSHOP

YU Architecture department, College of Engineering and Architecture has organized four-days workshop of parametric design and digital fabrication modeling, participates from various universities have learnt from our international guest professors , through a unique experience within our advanced digital fabrication lab."







جامحة اليمامة Al Yamamah University



## PHOTOSHOP ADOBE



### A GUEST LECTURER ARCH. NOURAN OSAMA



Why post-production and visualization matters, lecture to our junior students about visual representation and graphic design

### A GUEST LECTURER: ARCH. ABEER AL RAYES, INDESIGN ADOBE



YU Alumni, working in PEC Engineering Consultancy. A session about the InDesign adobe, to support our students in their final presentation and submission for the competition of Al-Madina AlMunwarra.

### FIELD TRIP TO KAPSARC



A field trip was organized to KAPSARC for students in the course 'Sustainability in Architecture' to enhance their learning experience through linking theory and practice and visit one of the best examples of LEED-certified buildings in the Kingdom.

The students visited different buildings in the project and learned about the sustainable strategies used in the building design.

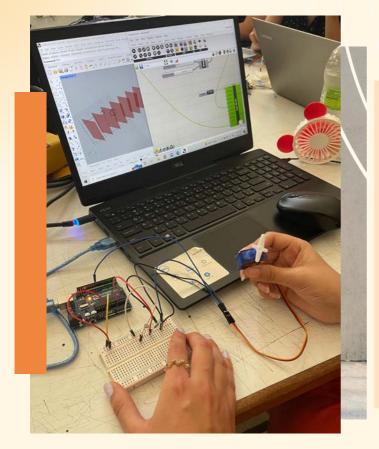
# MINSTRY

#### **OF ENVIRONMENT WATER AND AGRICULTURE**



The students of the College of Engineering and Architecture at Al-Yamamah University visited the office of the Ministry of Environment, Water and Agriculture to attend a workshop entitled The Role of Awareness in Achieving Environmental Sustainability.

#### THE ALGORITHM ROME SUMMER SCHOOL IN PARAMETRIC KINETIC DESIGN



#### Workshop Details

Algorithm Rome Summer School has an advanced computational approach that enables architects designers and to imposition overcome the of prefixed architectural forms in order to enhance performancedriven design and responsive kinetic solutions that interact with humans and environment.

The workshop was based on parametric design simulation, generative forms as well as kinetic responsive design, analyzing and digital fabrication prototyping, are integrated together in two main parallel modules





ROME SUMMER SCHOOL





# **BUILDING FRIENDSHIP BETWEEN FACULTIES**



we are not only colleagues but actually we are a big family.









# DEAN'S HONOR LIST

# DEAN'S HONOR LIST -

GPΔ

STUDENT NAME

SIUDENI NAME	GPA
RAWAN ZOHIR REYAD ABOALMAGD	3.74
SARA YOSEF TABET ABDULMALIK	3.85
SARA MOHAMMED AHMED ALWASHLEE	3.72
RAKAN GHASSAN ABOUDAKKA	3.76
ALWALED HUSSEIN M ALBAIK	3.67
LAYAN ZIAD AHMAD MAALI	3.9
LINA JAMIL AHMAD ALHANINY	3.85
DALAL ABDULLAH ALSUGHAYER	3.79
DHUHA SHAKER SAEED ALSAIF	3.77
RAGHAD ABDALRAZAK OMAR ALSAYYAD	3.7
RANEEM MOHAMMAD MOUSA MABROUK	3.86
BTOOL SAMI KHAZAL ALJIASIM	3.92
SARA RASHAD ABDULQADER SALAMEH	3.83
SARA ALSIDDEEQ ABDALLA IBRAHIM	3.83
ZAINAB ALAAELDIN ALI MOHAMMAD	3.75
JANA TAYSEER ABDULRAHMAN ABUSHARAR	3.6
LATEFAH MOHAMMED ABDULLAH ALSALAMAH	3.71
SARA ABDULKADER KHALAF BATTA	3.82
RAGHAD KHALID HAMDAN ABOUKHATER	3.91
BATOUL OSAMA KAMEL SIWAR	3.87
NABIL SALEM YAHYA AHMED	3.61
NADA SAID ABDULKADER SKHITA	3.82
NADA EHAB MOHAMMED ALSHAMI	3.63
GEHAD MOHAMED ABDELWHAB GEBALY	3.96
SARAH MOHAMMED AHMED ALSAHHAR	3.87
ABDULLAH MOHAMAD AHMAD ALSAHHAR	3.88

### TOP 10 SAUDI ARABIA Architecture firms:

DESIGNING THE FUTURE OF THE KINGDOM



Saudi Arabia, the largest country in the Middle East, has been undergoing a massive transformation in recent years, with ambitious plans to develop its infrastructure, enhance its public spaces, and attract more visitors to the region. To achieve these goals, the country has turned to some of the world's top architecture firms to help design the future of the Kingdom.

Here are the top 10 architecture firms in Saudi Arabia that are making a significant impact on the built environment of the region: Saudi Arabia, the largest country in the Middle East, has been undergoing a massive transformation in recent years, with ambitious plans to develop its infrastructure, enhance its public spaces, and attract more visitors to the region. To achieve these goals, the country has turned to some of the world's top architecture firms to help design the future of the Kingdom.

Here are the top 10 architecture firms in Saudi Arabia that are making a significant impact on the built environment of the region:

1. Omrania: Founded in 1973, Omrania is one of the oldest and most respected architecture firms in Saudi Arabia. The firm has designed some of the country's most iconic buildings, including the Kingdome Tower and King Salman Park.

2. Zaha Hadid Architects: One of the world's most renowned architecture firms, Zaha Hadid Architects has been involved in several highprofile projects in Saudi Arabia, such as the King Abdullah Financial District Metro Station and the King Abdullah Petroleum Studies and Research Center.

3. Perkins+Will: With over 80 years of experience in architecture and design, Perkins+Will has been a leading firm in the region, involved in projects such as the King Abdullah University of Science and Technology and the Princess Noura Bint Abdulrahman University for Women. 4. Snøhetta: Founded in Norway, Snøhetta is a global architecture firm that has made significant contributions to the built environment of Saudi Arabia. The firm has designed the King Abdulaziz Center for World Culture in Dhahran and is also involved in designing the new King Salman Park in Riyadh.

5. HOK: a global architecture and engineering firm that has worked on several projects in Saudi Arabia, including King Abdullah Sports City.

6. Gensler: With offices in over 50 countries, Gensler is one of the largest architecture firms in the world. The firm has been involved in several projects in Saudi Arabia, including the Al Rajhi Bank Headquarters in Riyadh.





7. Dar Al-Handasah: Founded in 1956, Dar Al-Handasah is one of the leading engineering and architecture firms in the region. The firm has been involved in several large-scale projects in Saudi Arabia, such as the King Abdulaziz International Airport Expansion in Jeddah.

8. Skidmore, Owings & Merrill (SOM): SOM is a global architecture and engineering firm that has been involved in several large-scale projects in Saudi Arabia, including the King Abdullah Financial District.

9. Foster + Partners: Founded by renowned architect Norman Foster, Foster + Partners is a global architecture firm that has designed several notable buildings in Saudi Arabia, including the King Abdullah Financial District and the Red Sea Project.

10. Dar Omran: Founded in 2007, Dar Omran is a reputable architecture and design firm based in Saudi Arabia. The firm has been involved in several high-profile projects in the country, including the design of the King Abdullah Financial District Conference Center and the Al Faisaliah Tower renovation project in Riyadh.



### AN ICONIC BUSINESS AND LIFESTYLE DESTINATION



#### KING ABDULLAH FINANCIAL DISTRICT (KAFD

King Abdullah Financial District (KAFD) in Riyadh, Saudi Arabia, is a world-class development project that seeks to create a selfcontained city within a city. Comprising over 59 buildings, the district boasts of high-rise towers, commercial spaces, and residential units.

KAFD's iconic architecture, state-of-the-art facilities, and innovative design make it a premier destination for businesses, residents, and visitors alike. It is designed to be sustainable and environmentally friendly, with several green spaces, energy-efficient buildings, and eco-friendly transportation.

It is not merely a business destination but also a vibrant community where residents can live, work, and play. The district features several residential buildings, shopping and dining destinations, and recreational facilities. The district's sustainable design is one of its most significant features. It consciously incorporates green spaces and energy efficient infrastructure, reducing its carbon footprint significantly.

The district's transportation system is also eco-friendly, with a network of pedestrian walkways and bike paths connecting the various buildings and facilities.

KAFD's iconic architecture is another standout feature. It boasts of several highrise towers, including the PIF tower, which is one of the tallest buildings in the region.

The buildings are not only visually stunning but also highly functional, catering to the needs of businesses and residents. The district's commitment to sustainability and innovative design has already attracted top companies and organizations from around the world.

KAFD is a project of the Saudi Arabian government, part of its ambitious plans to diversify the economy and attract local and international businesses. The district's innovative design, state-of-the-art facilities, and commitment to sustainability make it a model for future urban developments in the region and beyond.

In conclusion, KAFD is a remarkable achievement of modern architecture that sets new standards for sustainable and innovative urban development. Its iconic design, cutting-edge facilities, and commitment to sustainability make it a world-class destination for businesses, residents, and visitors alike. With its impressive high-rise towers, state-of-the-art facilities, and sustainable infrastructure, KAFD is set to become one of the most iconic destinations in the Middle East, shaping the future of Riyadh, and setting new standards for urban development around the world.





Let's Get Started

# THE TOP APPS FOR Architects

WRITTEN BY PAULA CANO



PUBLISHED ON JANUARY 15, 2023



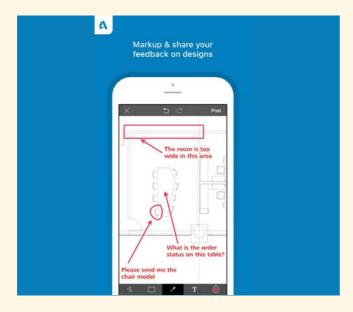
### THE TOP APPS FOR ARCHITECTS

Smartphones and tablets have become so powerful that has abruptly changed the concept of workshops since the introduction of apps into the architecture industry. They have generated a more productive and efficient workflow on-site or on the go, covering different aspects of the field with versatility and variety.

#### Here are the best architecture apps in 2022, according to ArchDaily :

#### AutoCAD 360 and Autodesk FormIt 360 (iOS/Android):

Visualize any AutoCAD or Revit files on the go. Autodesk users can view and upload 2D and 3D drawings regardless of what software they use to create them.



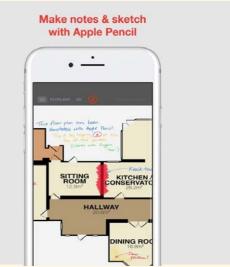
#### BIMx (iOS/Android)

Possessing a unique technology that integrates 2D and 3D building project navigation, this app allows architects to use Graphisoft files on any device and make measurement adjustments on-site.



#### <u>RoomScan</u> (iOS)

RoomScan Pro can create an entire floor plan using any phone. Easy to use, the process only requires the user to tap his screen and highlight walls while moving across the room, and the app generates the adequate floor plan seamlessly. In addition, the application can measure and draw stairs, facades, green spaces, etc.



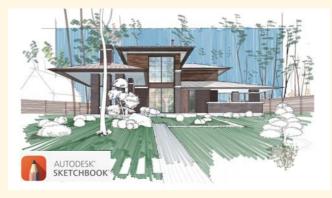
#### **Behance | Creative Portfolios**

Behance is a social media platform owned by Adobe whose primary focus is to showcase and discover creative work. Behance is free, and there are no restrictions on the number of projects a member can create. There is also no limit on the number of images/media users upload.

Bē

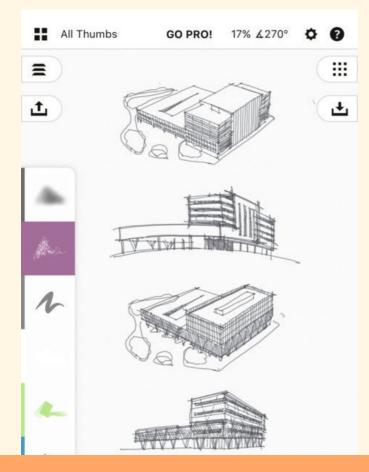
#### **Sketchbook by Autodesk** (iOS/Android)

Sketchbook works for all desktop and mobile devices. From quick sketches to fully finished artwork, the app works as a digital sketching paper free for everyone. The interface allows easy access to all the drawing tools, including steady stroke, symmetry tools, and perspective guides.



#### Concepts (iOS/Android)

Providing a natural paper-like experience, the app supports vector-based sketching, which is ideal for architects and designers. It is incredibly responsive and flexible, allowing faster sketching for illustrators, architects, designers, etc. Concepts come as a free app, and the Pro version price may differ based on the user's location.

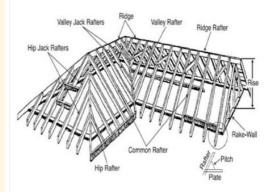


#### Construction Master Pro (iOS/Android)

Rated five on IOS in the utility section, Construction Master Pro is an application that helps you with your calculations instead of a regular calculator. It can assist anyone in estimating areas, volumes, etc., and can be used anywhere, on-site or in the office. Construction Master is a paid app, but great for calculating everything on the roof, saving time and money.

#### **Roof Framing Definitions**

The following is a listing of right triangle and roof framing terms to assist you in understanding how to use your Construction Master® roof framing functions.



Related functions:

 <u>Pitch, Rise, Run, Diagonal, Common</u> Rafter, <u>Hip/Valley Rafter, Jack Rafter</u>

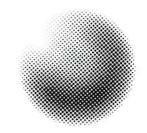
#### Definitions:

• Rise: The vertical distance

#### MagicPlan (iOS/Android)

MagicPlan uses your mobile's camera to measure spaces and create almost accurate plans that can be exported as PDF, DXF, or JPG.

#### **AN INTERNATIONAL** TRAINING OPPORTUNITY FOR THE 6 MONTHS COOP PROGRAMME



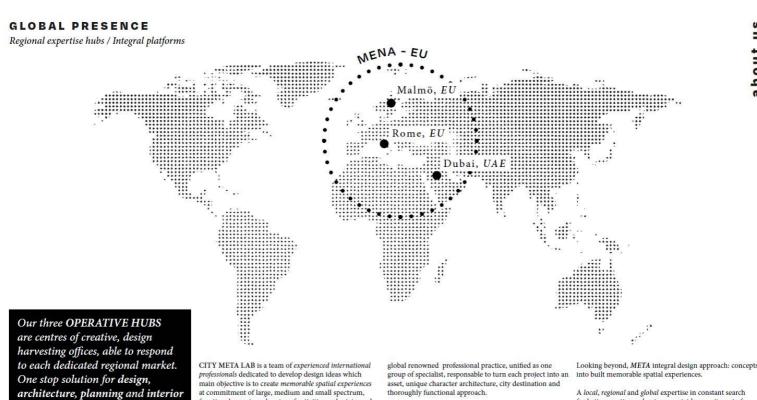
CITY META LAB

CITYMETALAB Architecture Firm

in fome!



The architecture department established an international agreement with one of the distinguished Italian architecture firms that gives the opportunity to our students to conduct their training programmes abroad, an added experience that expand their exposure and gives an exceptional value to compete with the market challenges



Ours is a multi-layered vision of the CITY, decoding urban opportunities, and embracing future proof approach.

for better practice and outmes, a vivid commitment of professional *LAB* of ideas and tangible results.

architecture, planning and interior design.

functional aspects and sector of activities real estate, and urban realm

Consolidating more than two decades of track record

#### SERVICES

City Meta Lab is a platform of **collaboration**, rooted in the **multi-disciplinary approach** of each task, project and ideas. Proceeding with the mechanics of a research lab, the expertise of track record global practice, and the experience developing at several scale of intervention and phases of design for planning and architectural projects.

CML's approach prioritizes the **interconnections between various aspects of a building project** and seeks to create designs that are sustainable, functional, and harmonious with their surroundings.

#### CML' s principles:

Contextual design Assessment: From spatial-physical, social, and cultural context, urban phenomena and city decoded development opportunities of a building project prior the design process. This includes analyzing the site, understanding the community, and considering the local climate, geography, and history. The base line of each project starts with the generation of the criteria of intervention, articulated with design at all instances.

Sustainability / Health and well-being: Architects incorporate sustainable design principles into their projects, including energy-efficient systems, renewable materials, and water conservation measures.

Health and well-being / Pre and Post occupancy scenarios evaluated: CML has been engaged in several analysis of cities, districts, or regions development studies, in their capacity to engage with future proof growth, preservation and development agenda, in addition to evaluation of surroundings, including its ecological, economic, and social impact. For which our support of urban focus, has developed interactive scenarios, and real time

For which our support of urban focus, has developed interactive scenarios, and real time parameter explorations, informing city planners, Urban stakeholder, and Real Estate developers and urban consultancy companies.

Adaptability: Architects design buildings that are adaptable and can evolve over time to meet changing needs and technologies.

CML is a design, architecture, planning platform aiming for long term value generation ideas and project. Spanning from conceptual / definitions up to fully completed buildings and spatial memorable experiences.

#### CITY META LAB PROJECTS

#### NEOM EXHAGONS

Saudi Arabia



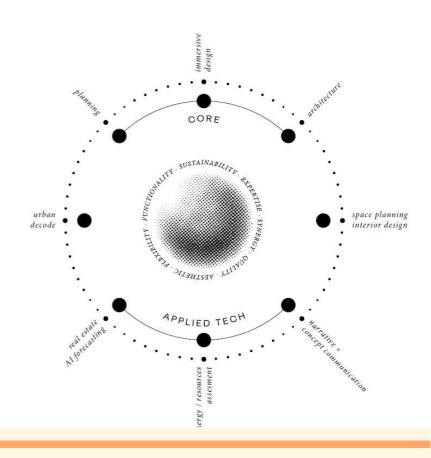


Project Developed at Fuksas Studio

Tipology: Ultra-luxury housing Date: June 2021 - September 2021 Status: Shortlisted Design Phase: Concept Services: Full Design Package / Financial and sub-consultant coordination / Client consultation



CITY META LAB







Know more by visiting the website: www.citymetalab.com



CITY META LAB





# STUDENT'S Work

2022-2023





# ARCH101: FINAL PROJECT **INSTRUCTOR: MR. ABDULLAH ELSHAFIE**

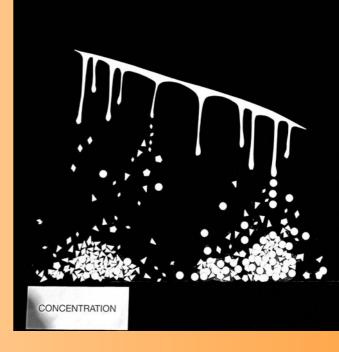




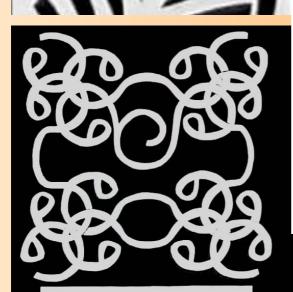


#### CONCEPT

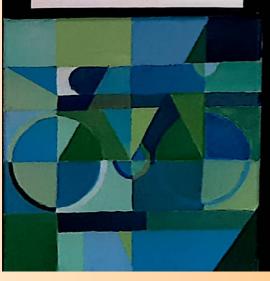
This work was produced to show the six main connotations of a dagger, and what it symbolizes : betrayal, loss, danger, protection, sacrifice & bravery. Each symbol was represented by a design principle.







#### Anomaly

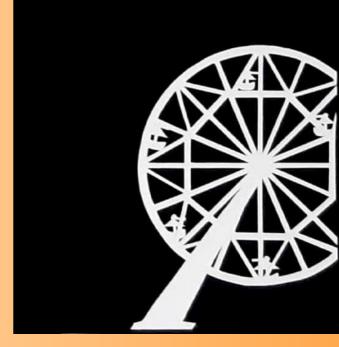


#### CONCEPT

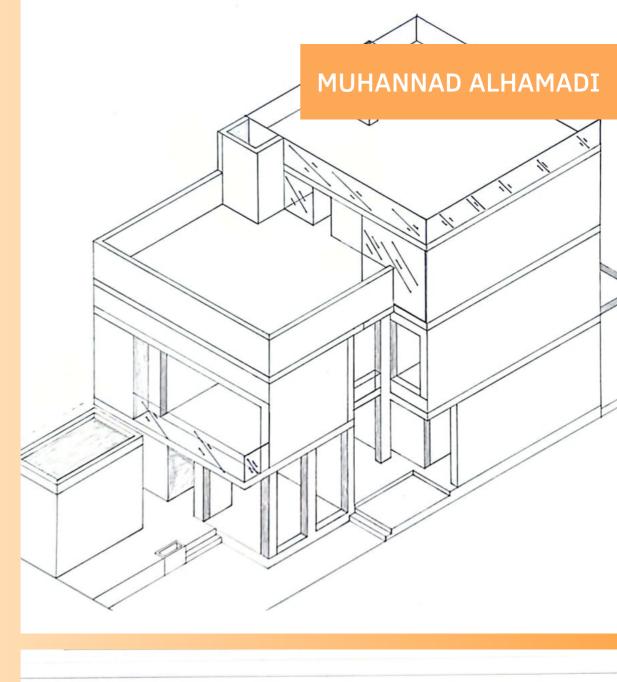
THE CONCEPT OF THIS WORK WAS RELATED TO WHAT A BICYCLE REPRESNETS., WHICH INCLUDES FREEDOM, PROGRESS AND HOPE.,, i TIRED LINKING DIFFERENT THINGS TOGETHER TO PRESENT ONE POINT

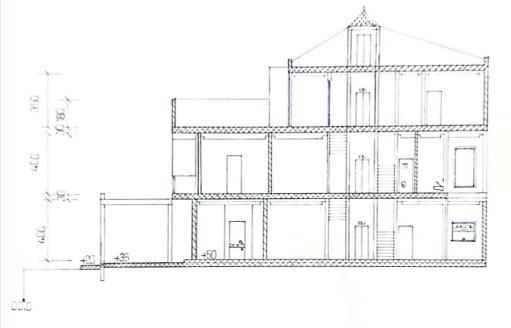
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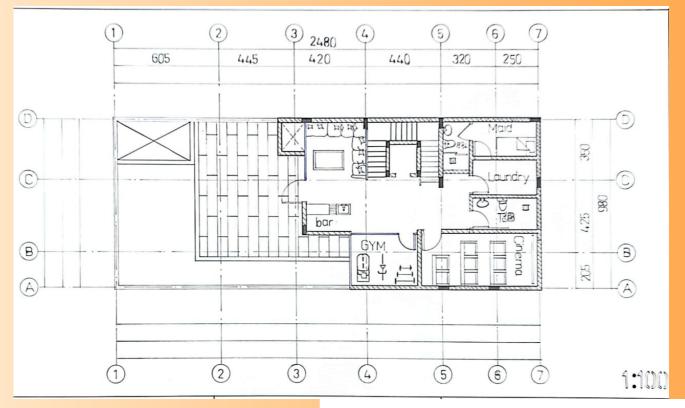
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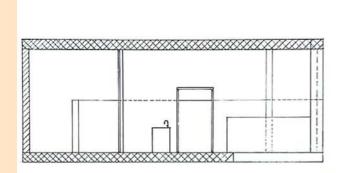


# ARCH 102: VILLA PROJECT INSTRUCTOR: MS.ESRAA SAMMAN



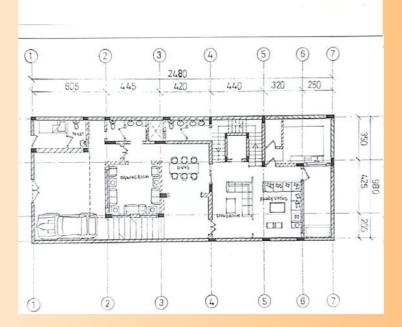


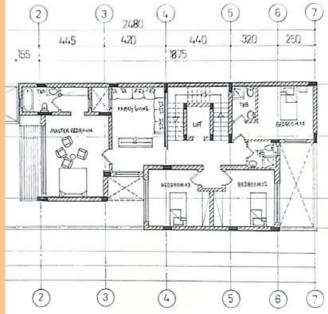




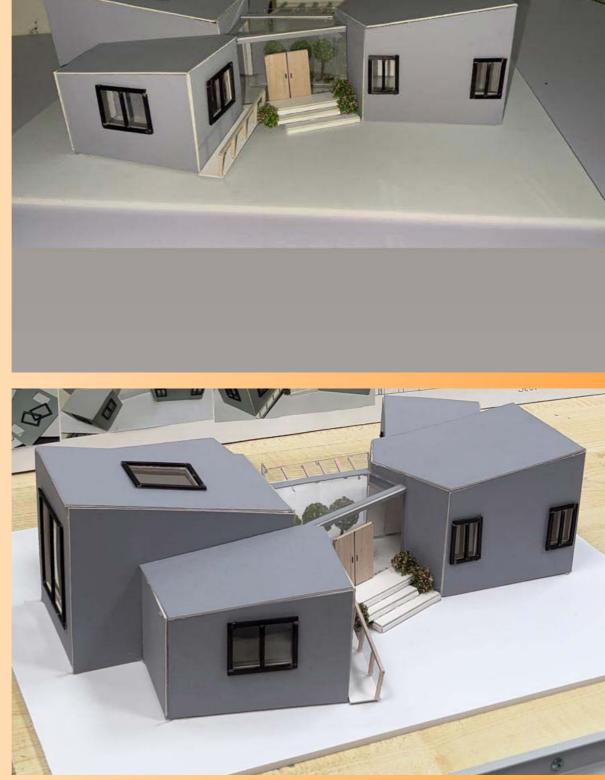
#### CONCEPT

Residential villa with stone was used for the columns and some parts of the facade, with profile paint (exterior paints) and the glass element to add aesthetics to the building and allow light to enter the building.



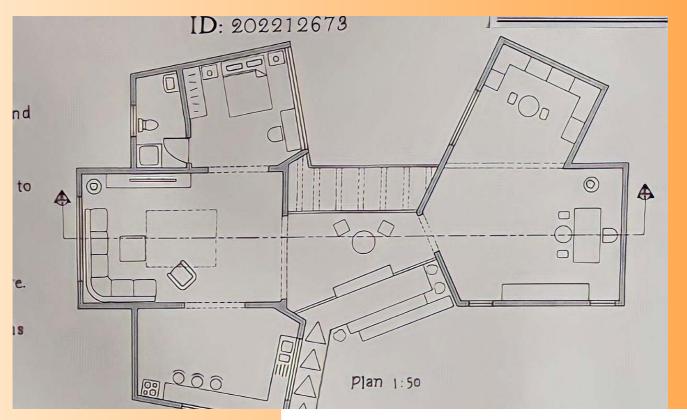


# ARCH 111: STUDIO PROJECT **INSTRUCTOR: DR.DALIA FATTAH**



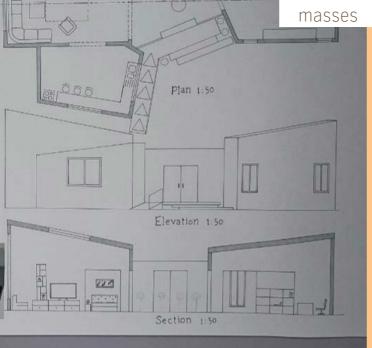


**NOUR ALKHABBAZ** 



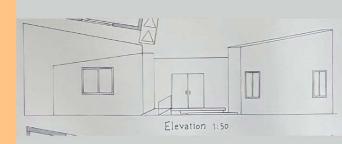
#### CONCEPT

It is a residential studio for the journalist Ahmed Al-Shugairi, as it was designed based on his personality, life, work, interests, and challenges that he seeks to achieve, Using the simplest forms in architecture and the most comfortable for living, with some modifications in the inclination of the roofs and the shape of the masses

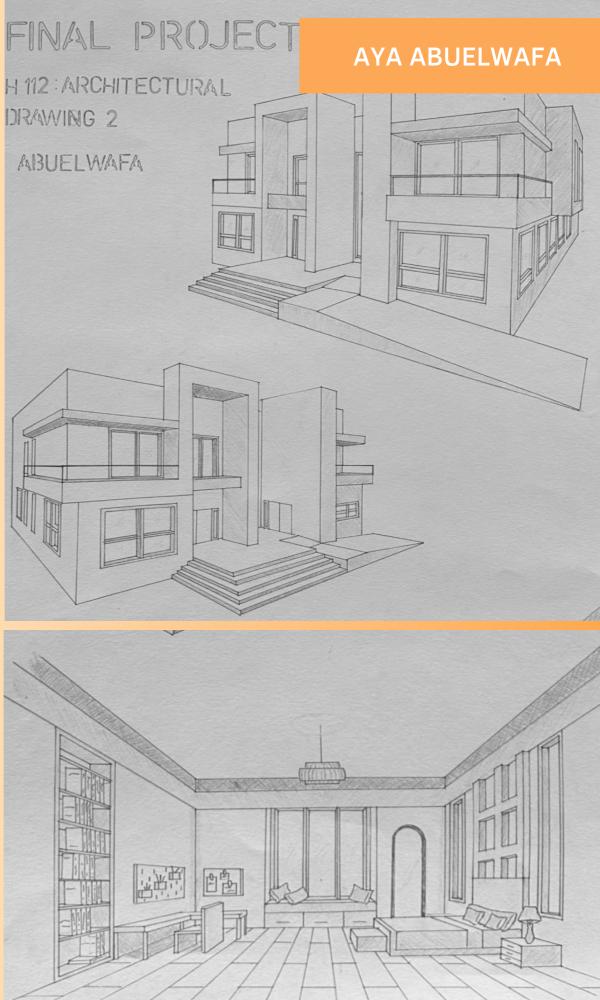


NOUR ALKHABBAZ

ID: 202212673



# ARCH 112: VILLA PROJECT INSTRUCTOR: DR.ANWAR IBRAHIM





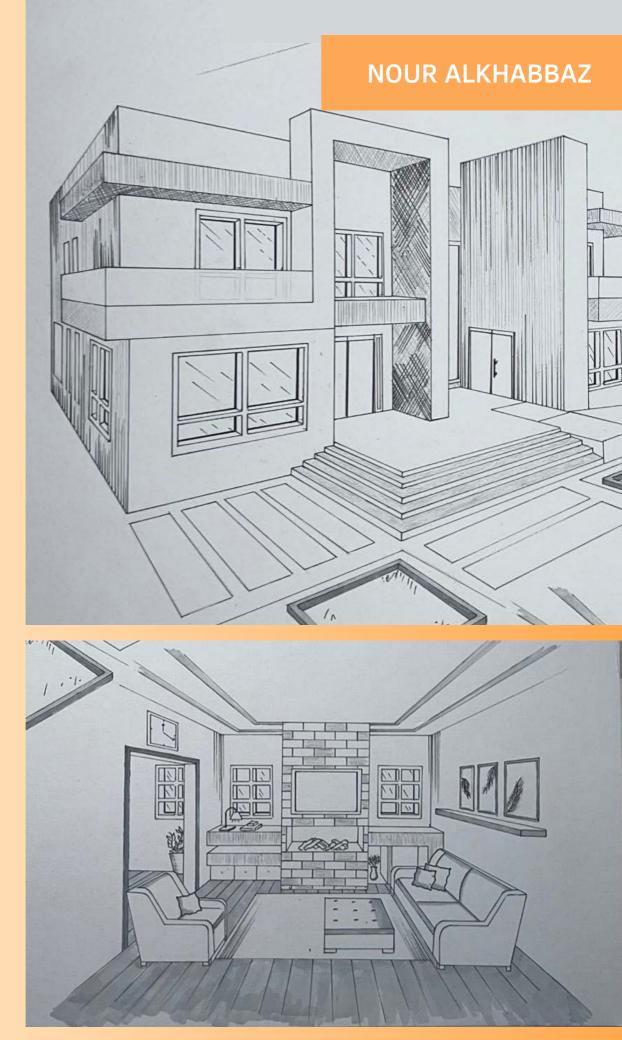


#### CONCEPT

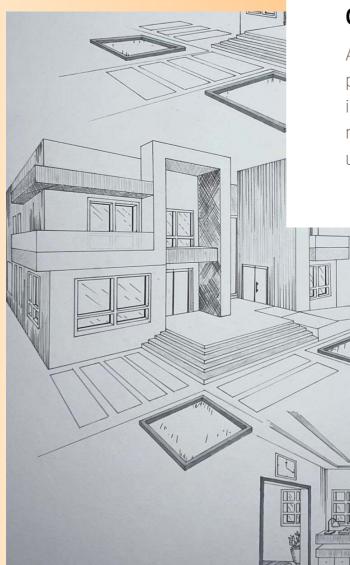
THE PERSPECTIVE TECHNIQUE WAS USED TO CREATE A VILLA WITH AN INTERIOR DRAWING, WHICH WAS THEN RENDERED WITH A BLUE PEN AND HATCHED BY A BLUE PENCIL.



# **ARCH 112: VILLA PROJECT** INSTRUCTOR: DR.ANWAR IBRAHIM





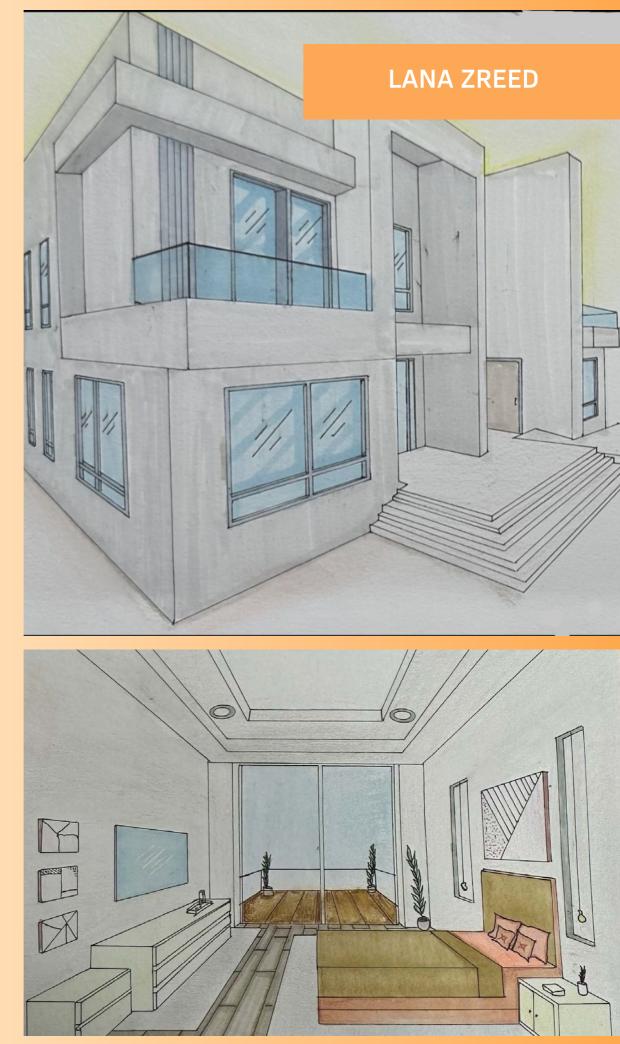


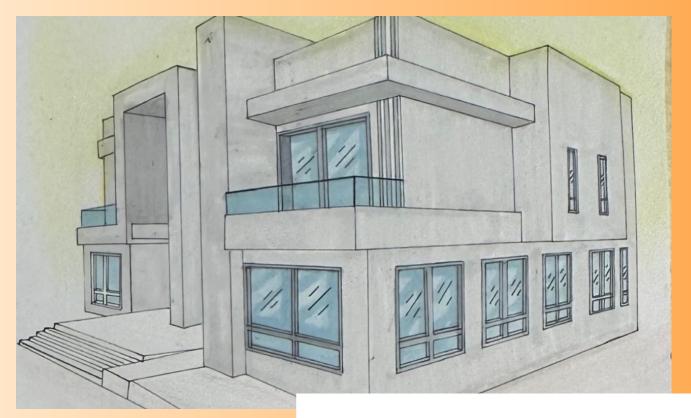
#### CONCEPT

A residential villa that was drawn in perspective with a drawing of one of the interior rooms of the house. Rendered manually by different hatching types using pencil and black pen



# ARCH 112 : VILLA PROJECT **INSTRUCTOR: DR. ANWAR IBRAHIM**





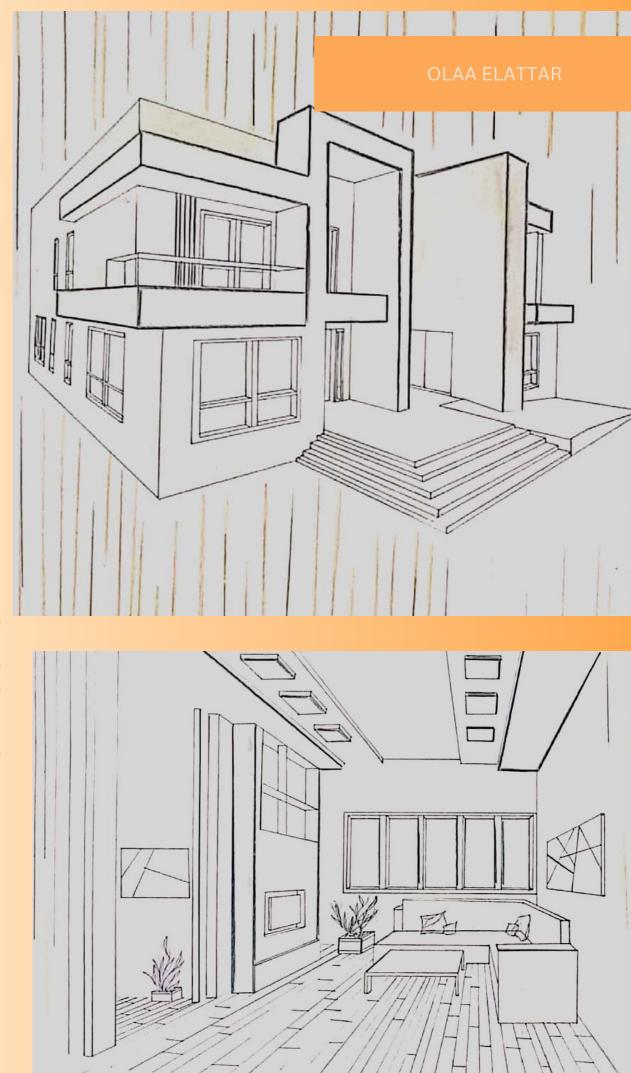


#### CONCEPT

After adding the drawings on the poster, I started to add the small details. Using pastel markers I colored the villa and by using water colors i made the background



### **ARCH 112: VILLA PROJECT INSTRUCTOR: DR. ANWAR IBRAHIM**



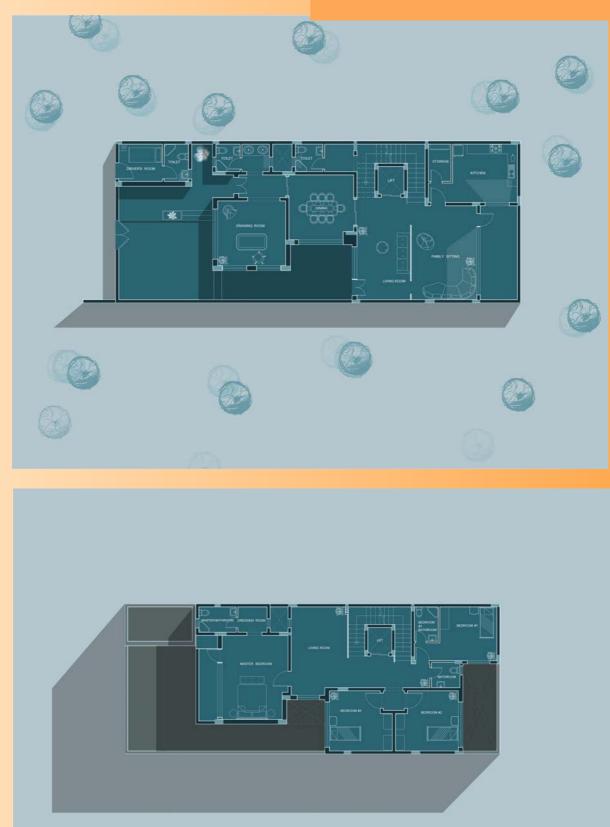




THE DRAWINGS WERE DRAWN USING PRESPECTIVE TECHNIQUE. THE CONCEPT OF THIS DESIGN WAS TO OUTLINE CERTAIN PARTS OF THE BULDING

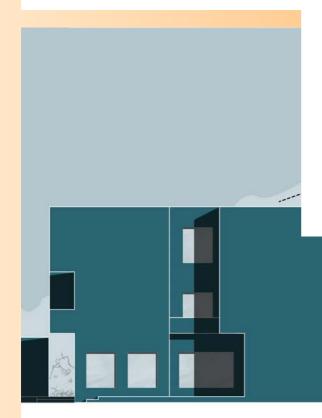


### **ARCH 113: RENDERING INSTRUCTOR: MS. MAHASEN AL-QAHWAJI**

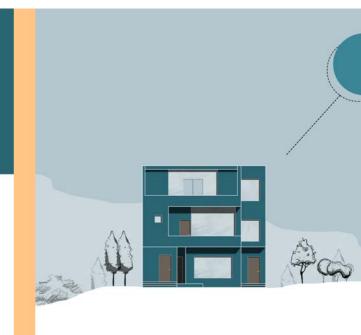


### **KHALID SHAAR**





Rendering this project was based on a simple and a manifest style, the design is easy to understand which is the main goal to achieve when rendering.



### **ARCH 113: RENDERING INSTRUCTOR: MS. MAHASEN AL-QAHWAJI**

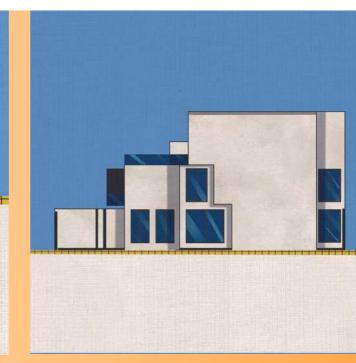


**SARA BAKALKA** 





The main goal was to provide an aesthetically pleasing rendering that was also easy to grasp and understand. Primary colors were used to emphasize prominent parts of the work.



### ARC201 CAFE PROJECT **INSTRUCTOR: MS. MAHASEN ALQAHWAJI**





### icep

ept is based on n and mindset, and fic architecture type esented by using es that reflect the relax.

design development

### CONCEPT

My concept is based on relaxation and mindset, and parametric architecture type that is presented by using curves lines that reflect the feeling of relax.

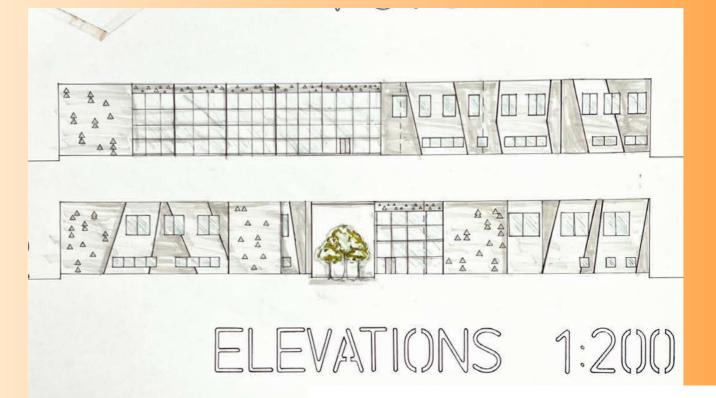


Isometric



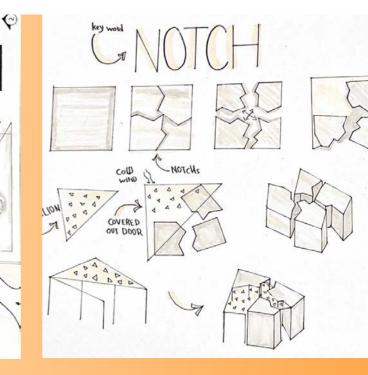
## INSTRUCTOR: DR.MANSOUR ALULAYET - MR. ANAS HUSSEIN **ARC211: MIDDLE SCHOOL**





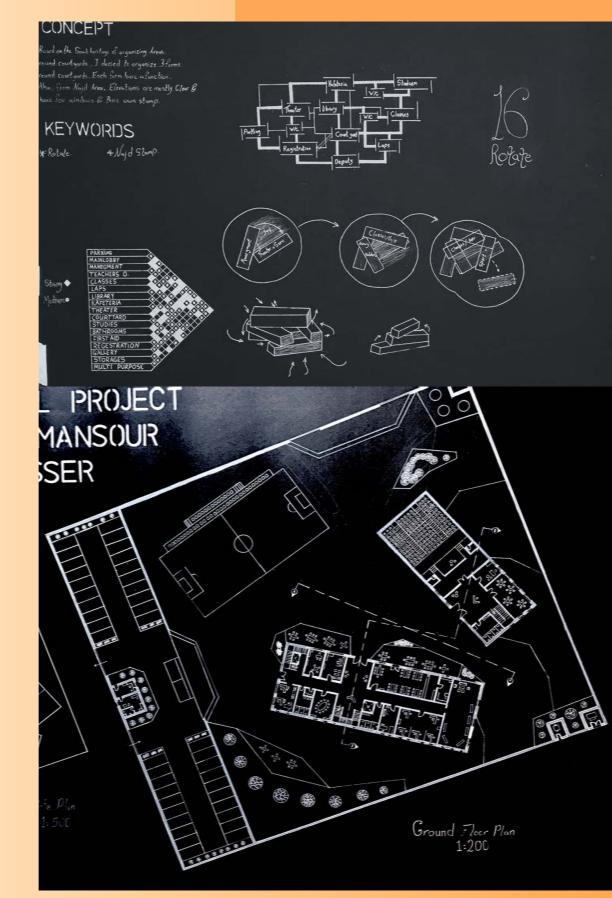


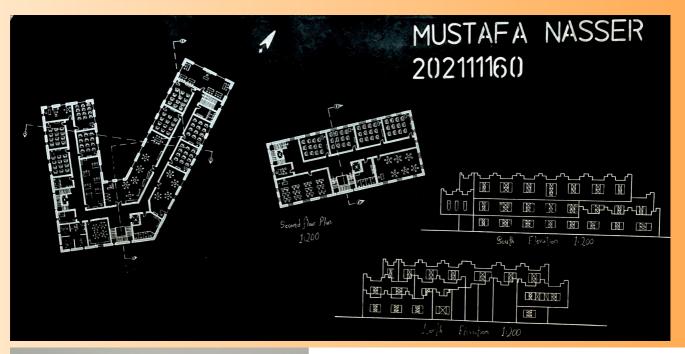
My concept depends on nature's light and getting use of the sunlight, and combining the Najdi style on the structural pavilion that connects the buildings.

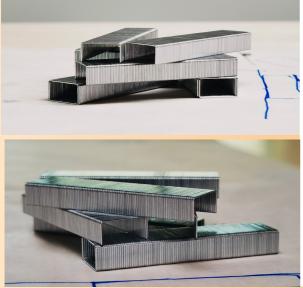


### **MUSTAFA ALHABASHI**

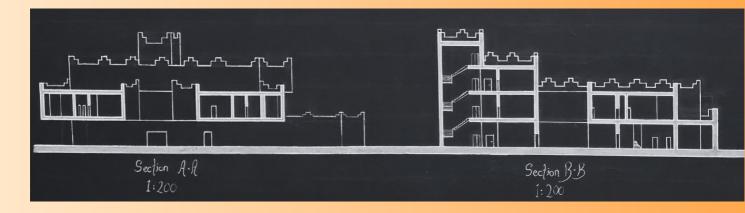
### ARC 211: MIDDLE SCHOOL **INSTRUCTOR: MR. ANAS HUSSEIN**







Based on the Saudi heratage way of organizing areas around courtyards. I desided to organize my 3 forms around a courtyard that connect the whole form into one piece. Also, I took the Najd stamp & add it to the facade in a rotation way to emphsize the form

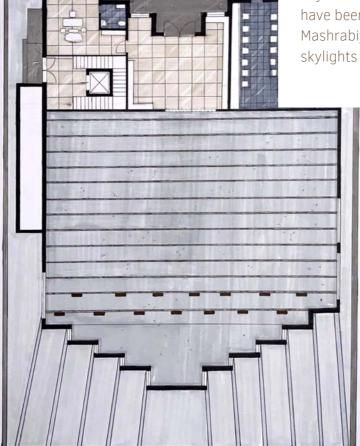


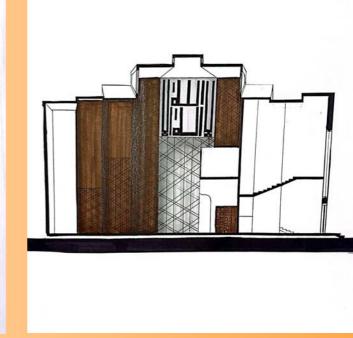
# ARC 211: MOSQUE INSTRUCTOR: MS.ESRAA SAMMAN





The goal of the design is to provide as much as possible of natural lighting. The perfect way was to create skylights and less use of windows in the sides of the worshippers to avoid any distractions can happen while praying. For the ones that have been added in side walls, I used the Hijazi element Mashrabiyah in order to avoid the distraction. To create the skylights I used the principle of gradation.





### ARC 301: MOTEL INSTRUCTOR: MS. NOOR TAYEH







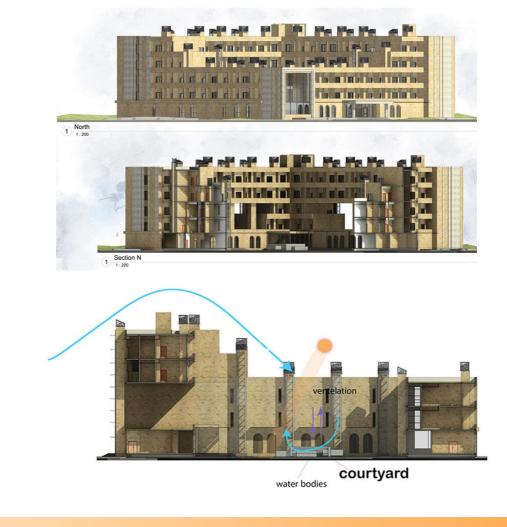
### MICROCLIMATE

The ability to control site's weather conditions without the need to use external factors .. the goal has been achieved by using environmental strategies such as evaporative cooling , stack effect , shading devices, geo therma heat exchange and vegetation



### **AHMAD RASHWANI**

ARC 301: MOTEL INSTRUCTOR: DR.MAJDI ALKHRESHEH









### MICROCLIMATE

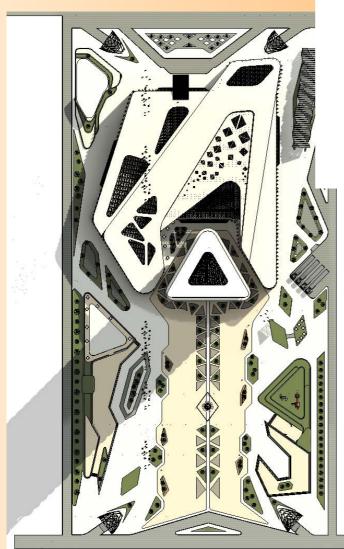
The ability to control site's weather conditions without the need to use external factors .. the goal has been achieved by using environmental strategies such as evaporative cooling , stack effect , shading devices, geo therma heat exchange and vegetation



## ARC 311: COMMERCIAL COMPLEX **INSTRUCTOR: DR.MAJDI ALKHRESHEH**



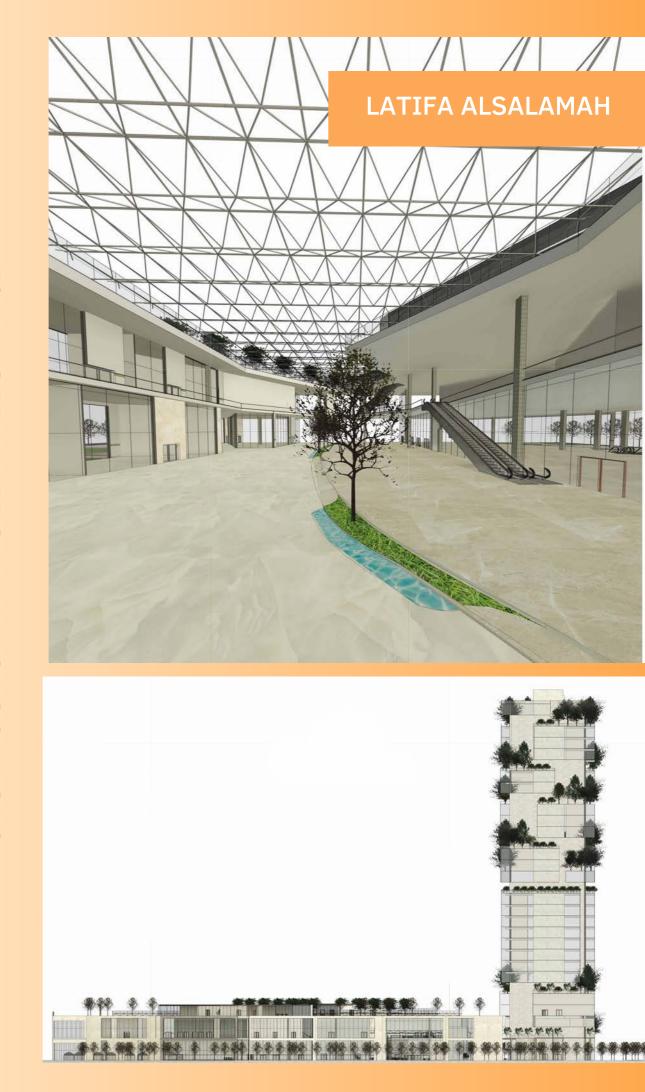


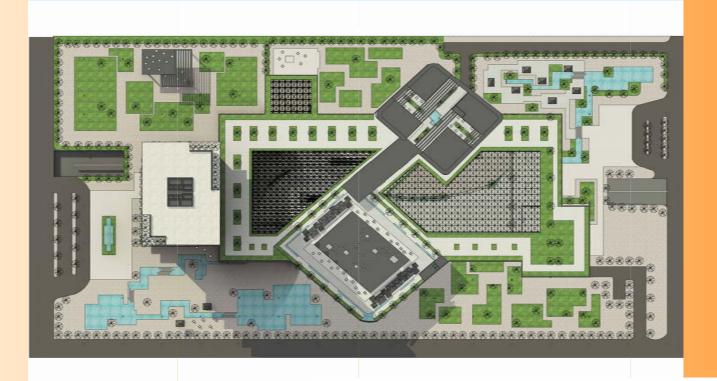


The plan features an equilateral triangular tower with a slanting top that shadows silhouettes of the surrounding skyline. It also features a base curvilinear plan of entertainment and shopping spaces which echo a landscape of desert dunes.



## ARC 311: COMMERCIAL COMPLEX **INSTRUCTOR: ABDULLAH ELSHAFIE**







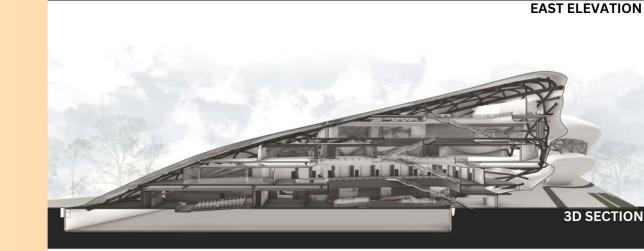
### JOURNEY AND MOVEMENT

ADDITION OF VOLUMES TO THE ORIGINAL FORM TO BREAK THE PATTERN AND CREATE CONTRAST.. MEANWHILE INTEGRATING IT WITH THE NATURE FOR A UNIQUE SPACIAL EXPERIENCE AND SUISTAINABILITY PURPOSES

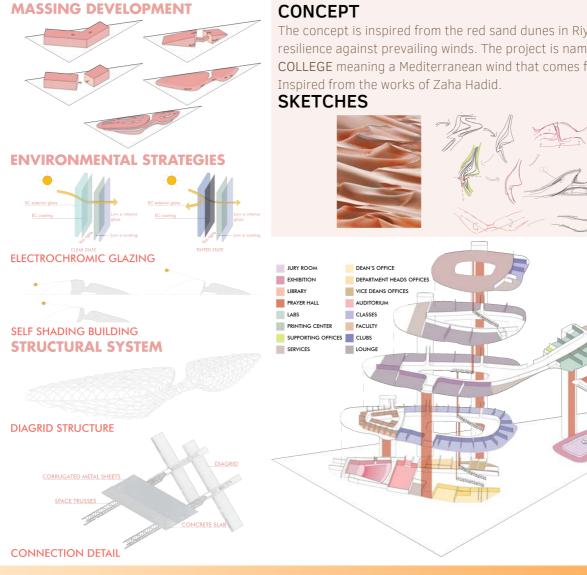


# ARC 401: COLLEGE OF ARCHITECTURE INSTRUCTOR: MR. ABDULLAH ELSHAFIE





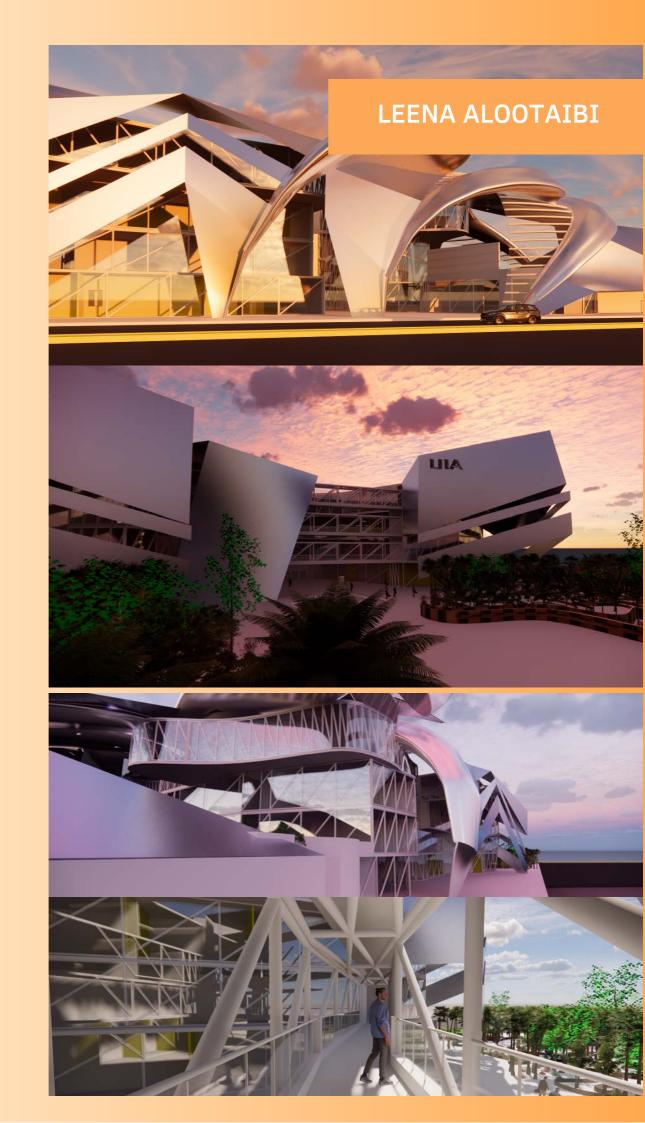
### **GROUND FLOOR PLAN** N 18 9 -



### CONCEPT

The concept is inspired from the red sand dunes in Riyadh as they show resilience against prevailing winds. The project is named **SIROCCO COLLEGE** meaning a Mediterranean wind that comes from the Sahara.

# ARC 401: COLLEGE OF ARCHITECTURE INSTRUCTOR: DR.ANWAR IBRAHIM





LIA

### CONCEPT

"Architecture is an endless experimentation of the future." The mail goal of the project is:

To make users feel included to create unity and to provide an experience for the students.



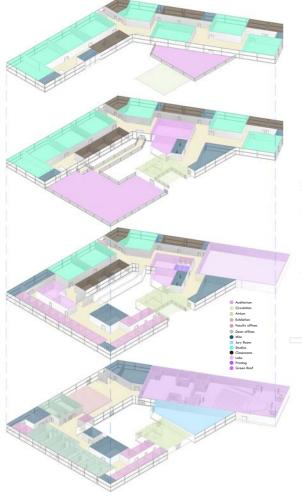


# ARC 401: COLLEGE OF ARCHITECTURE INSTRUCTOR: DR.ANWAR IBRAHIM



### CROUND FLOOR PLAN

### SEQUENTIAL PLAN



### CONCEPT

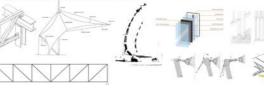
A sustainable building based on a modular plan that tells its' users what it is and how it was created and how all the integrated systems work together to create this environment using high-tech methods.

It combines art and engineering to create a building that gives to its' users by creating sophisticated and detailed structural systems that shows in the building elevations and the interior of it as well all based on the works of Sir Nicholas Grimshaw.





### STRUCTURAL SYSTEMS & DETAILS



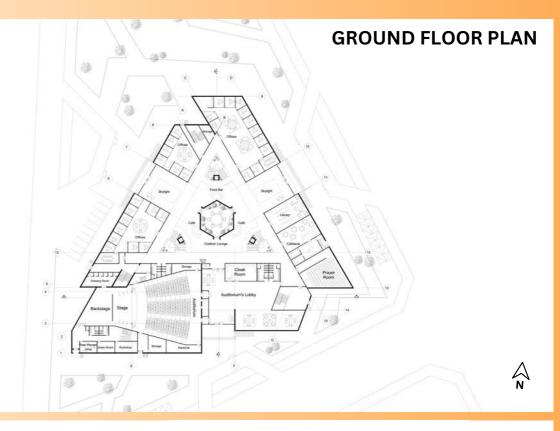
**3D SECTION** 

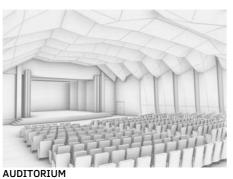




ARC 401: COLLEGE OF ARCHITECTURE INSTRUCTOR: DR.ANWAR IBRAHIM







AUDITORIUM Inspired by the Rocky Mountains NAJD.







ADMIN
LABS
FACULT

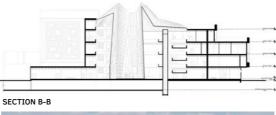














WEST ELEVATION

An abstraction was made by

The element is usually found in traditional doors.

Finally, creating a copy of the original pattern but scaleddown and laying it above the

using a traditional Najdi

### CONCEPT

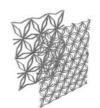
Pattern.

original pattern.

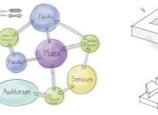
BUBBLE DIAGRAM

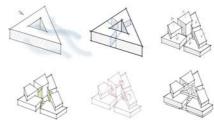




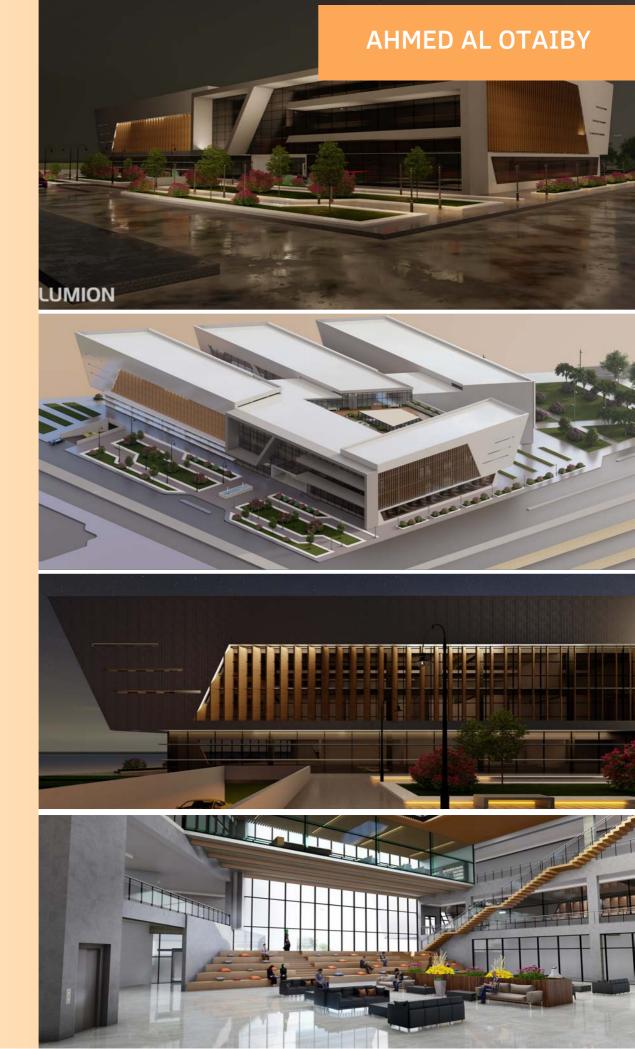


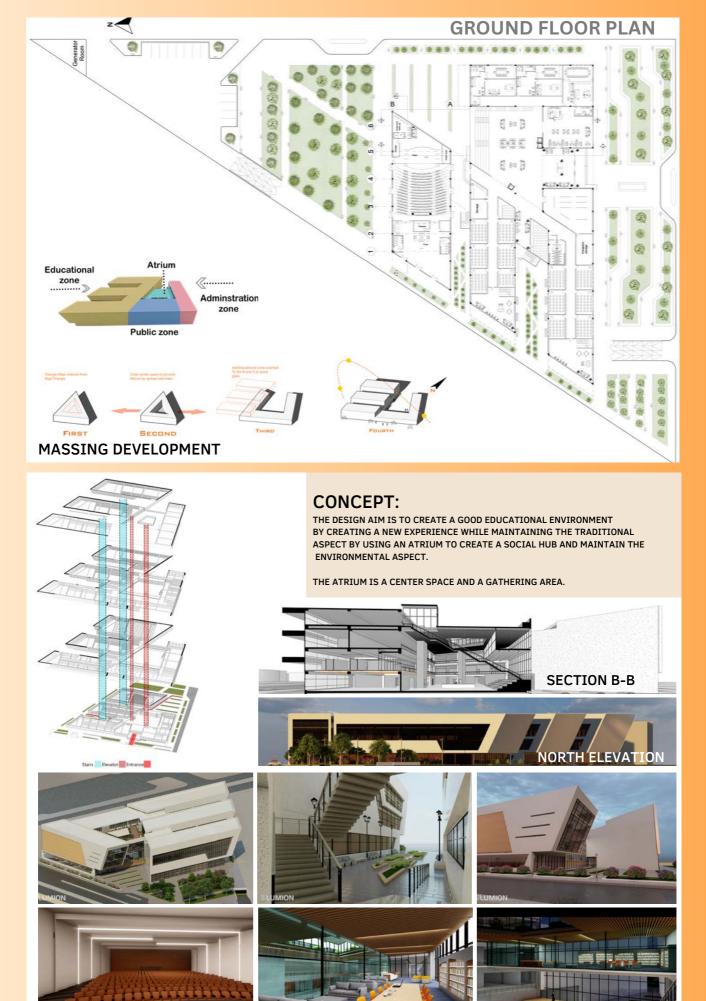
### MASSING DEVELOPMENT





# ARC 401: COLLEGE OF ARCHITECTURE INSTRUCTOR: DR.ANWAR IBRAHIM





BILUMION

# ARC 401: COLLEGE OF ARCHITECTURE INSTRUCTOR: MR. ABDULLAH ELSHAFIE



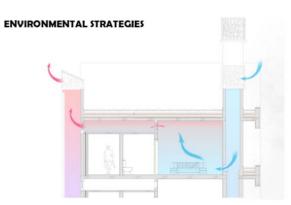


The design concept is mainly based on sustainability.

Designing a sustainable hotel that saves energy to reduce carbon emissions and preserve the environment

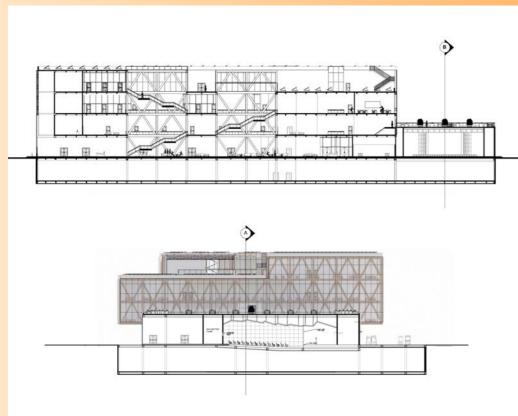
also to preserve the identity of the place in which it's located.





### Wind Catchers & Solar chimneys

Solar chimneys placed on the south and west sides are connected in the rooms Openings were opened at the top of the room on the opposite side of the air deflector to draw hot air from the room and exchange it for cold air from the





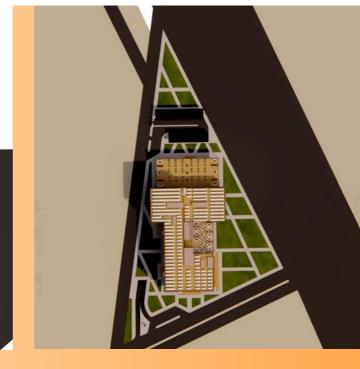


<u>Concept statement:</u> The beauty of functionality in architecture that enhance the quality of daily routine of student and instructors

<u>how:</u> expose the structure and use different structure systems.

<u>Keywords:</u>

Functional - Logical - Experience - Environment





## ARC 411: URBAN DEVELOPMENT **INSTRUCTOR: MS. NOOR TAYEH**







Allowing the coexistence of social experience & creating zones for each group while preserving cultural identity of Medinah.

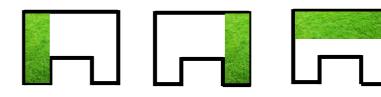
Project's designs are inspired by the use of traditional urban architecture of Madina to preserve its identity in a modern way.



















Created public space within the building to maximize social interactions and provide a comfortable environment.







### MIX USED BUILDING - SARA SALAMEH





# ARC 411: URBAN DEVELOPMENT INSTRUCTOR: DR. MAYAS TAHA







Creating an active and social space that is connected to Al-Medina's landmarks and respecting it's architecture and people.

the space is walk-able, sustainable and integrated. Four main spaces were created and connected with a pedestrian pathway connecting them, traditional market plaza, almudah plaza, bayt alsidah Fatimah plaza and Al-Usayfrian park.





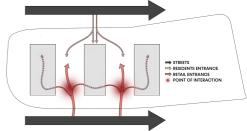
### MIXED-USE BUILDING 1



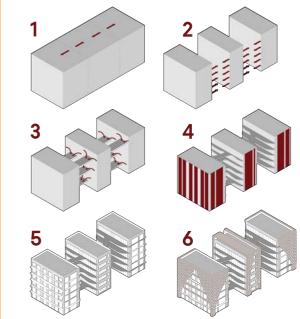
### CONCEPT

THE OBJECTIVE OF THE PROJECT IS CREATING A MIX-USE BUILDING BOTH RETAIL AND RESIDENTIAL BY MAKING AN ATTRACTIVE SPACE THAT CREATES CONNECTIONS BETWEEN USERS BY SPLITTING THE BUILDING AND CREATING

INTERACTIVE SOCIAL SPACES AND BRIDGES CONNECTING THESE MASSES TO STIMULATE SOCIAL INTERACTIONS.



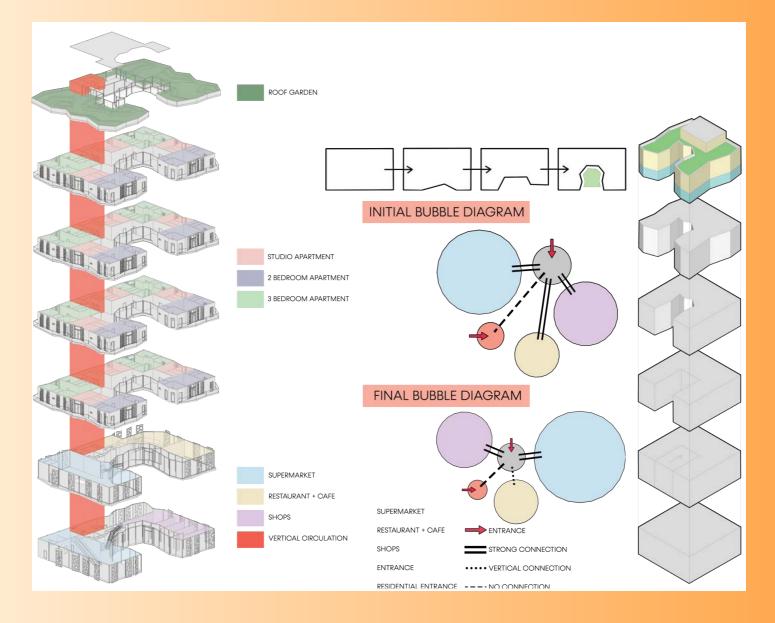
### MASSING DEVELOPMENT







INSPIRED FROM THE MASTERPLAN LINES AND REFLECTED IT ON THE BUILDING'S PLAN. ADDING OPEN SPACES AND OPENINGS RESPONDING TO THE CLIMATE WHILE ALSO ADDING AESTHETIC ELEMENTS.



# AR422: PHARMACY DESIGN **INSTRUCTOR: MS.ESRAA SAMMAN**





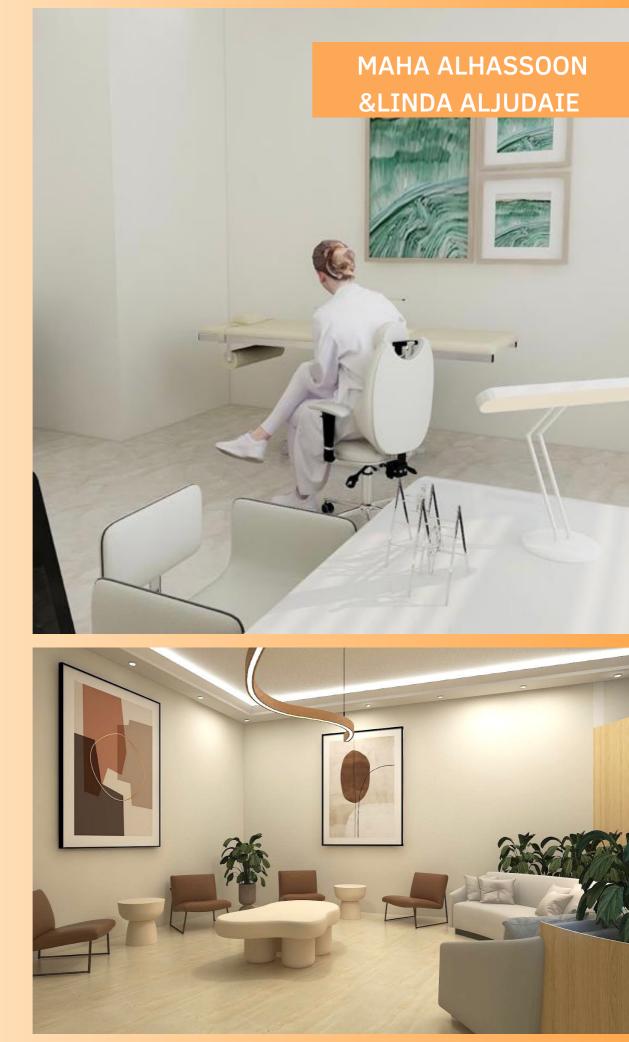


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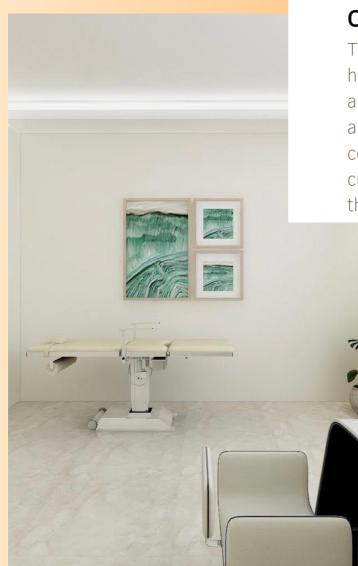
It is a pharmacy specializing in medicines and takes care of patients very accurately according to medical prescriptions and gives them the appropriate quantities for their needs according to the prescription of a doctor. Purity Pharmacy cares about patients and staff.



# IAR422: HOSPITAL DESIGN **INSTRUCTOR: MS.ESRAA SAMMAN**





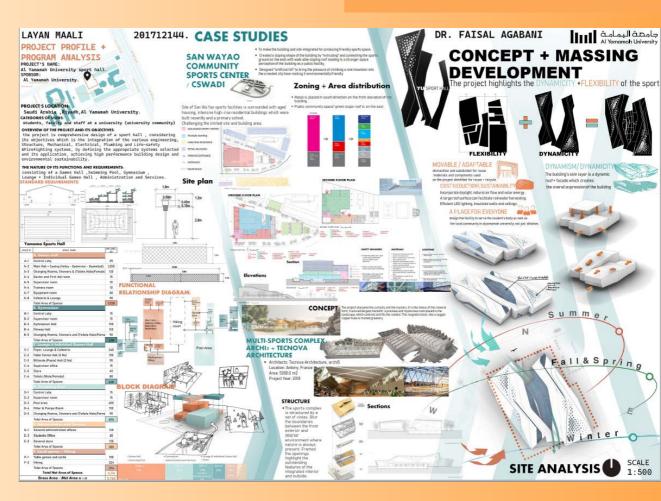


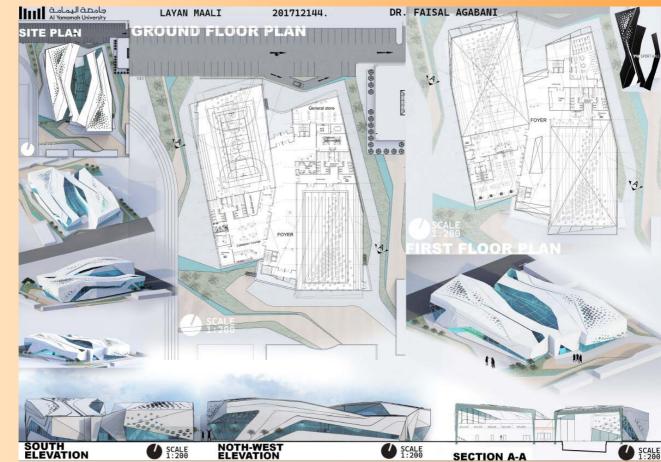
The idea of the project is to be harmonious with the colors of nature, also using natural materials such as wood and planting. That is, it gives a sense of comfort and relaxation. To make the customer feel comfortable and simple at the same time.

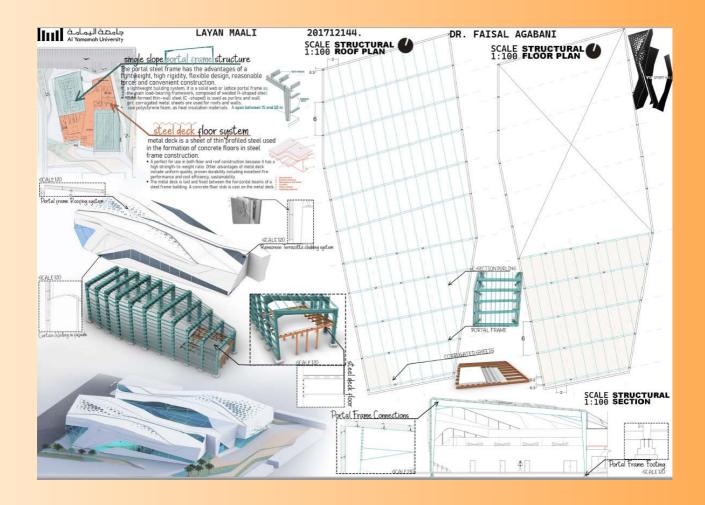


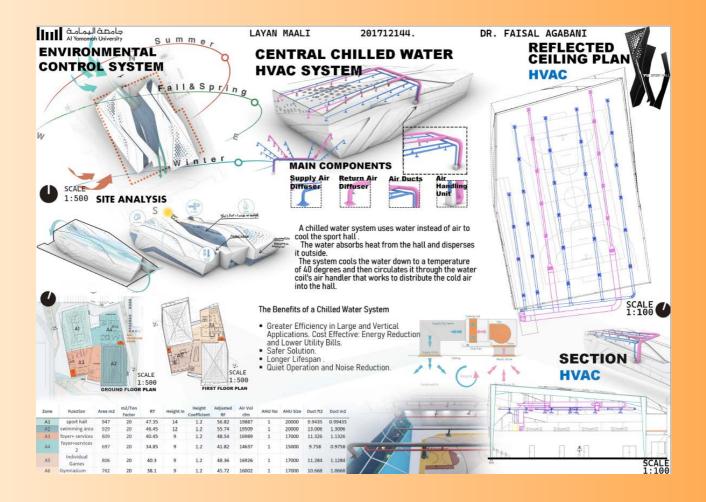
### LAYAN MAALI

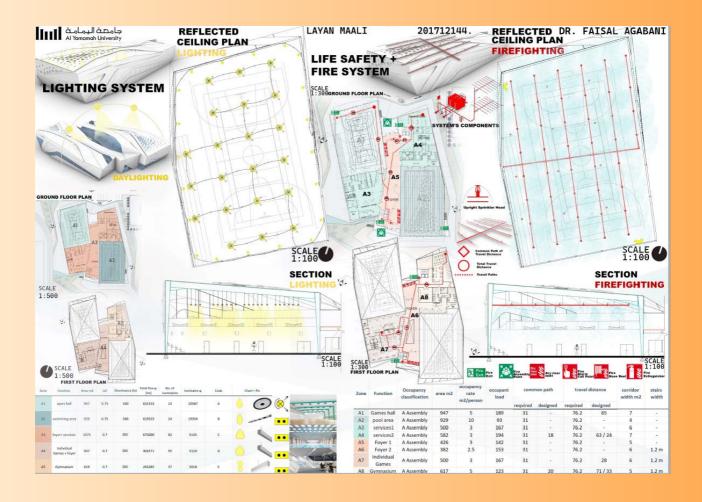
**INSTRUCTOR: DR. FAISAL AGABANI** 

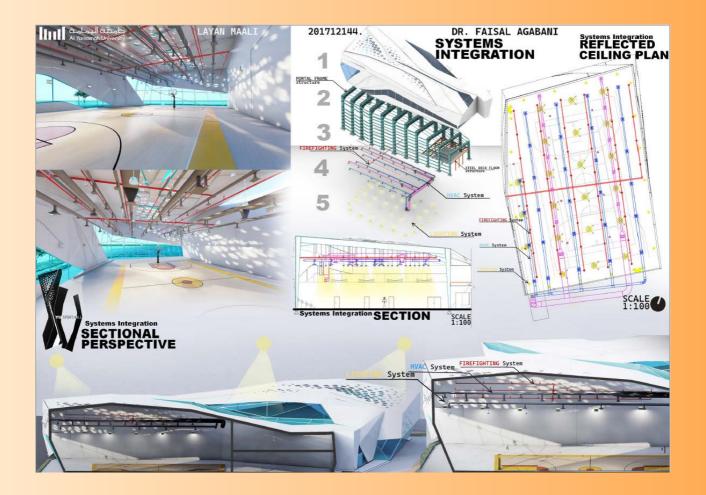






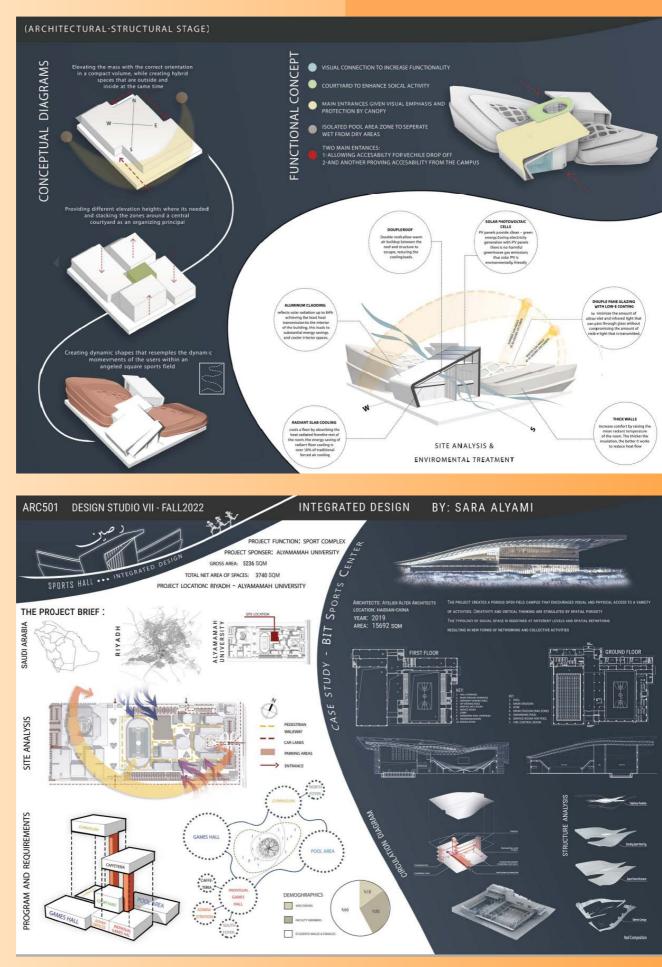


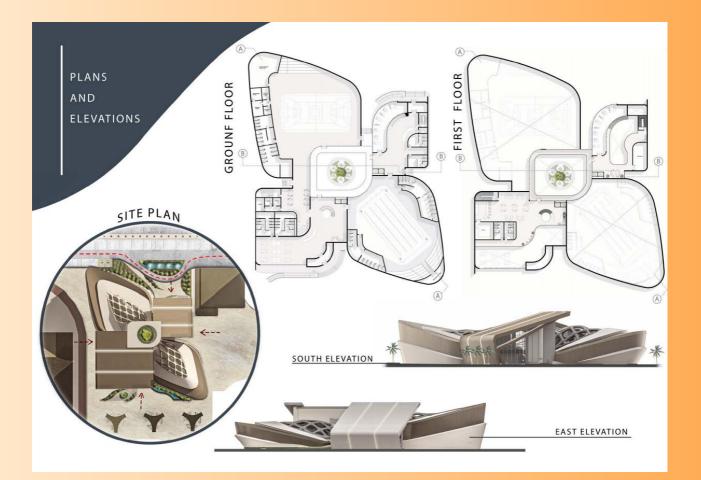


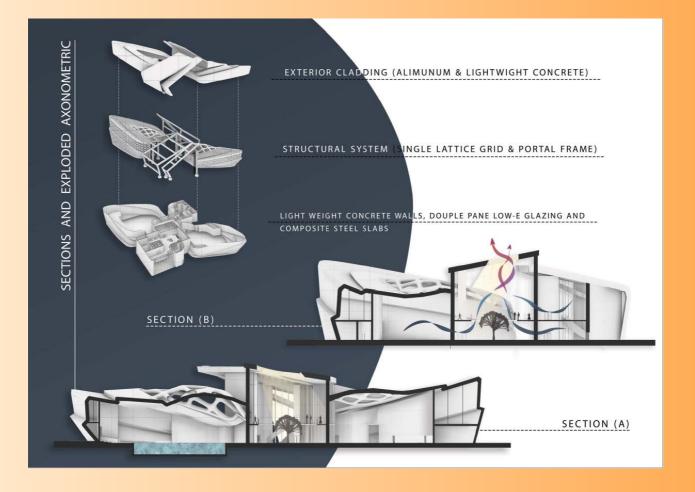


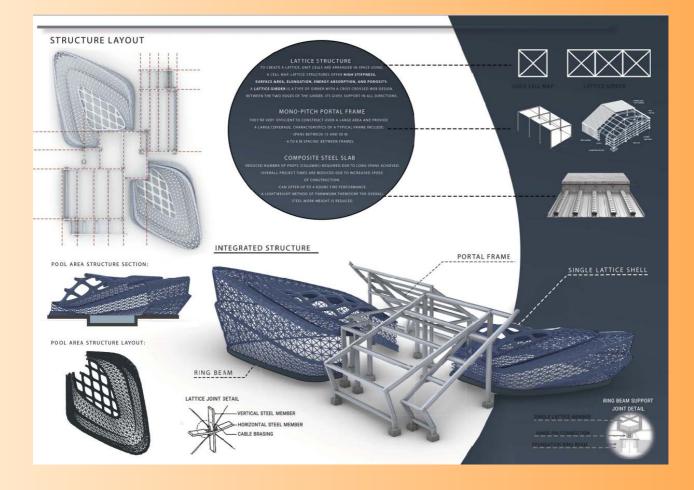
### SARA ALYAMI

**INSTRUCTOR: MR. ANAS HUSSEINN** 

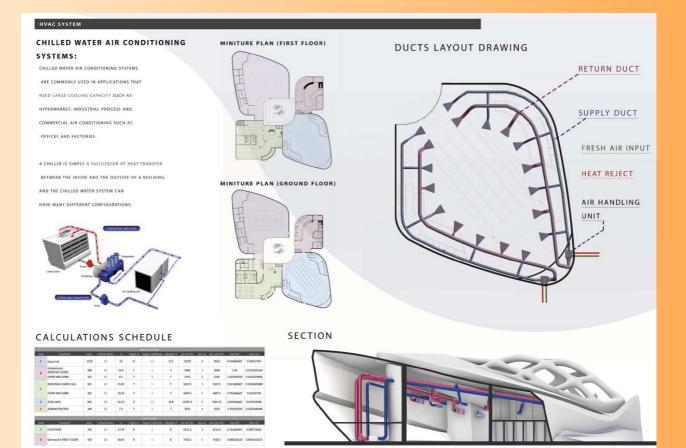


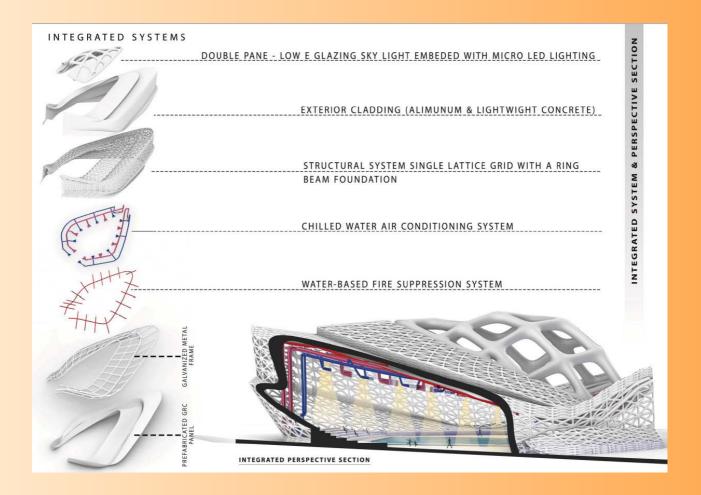






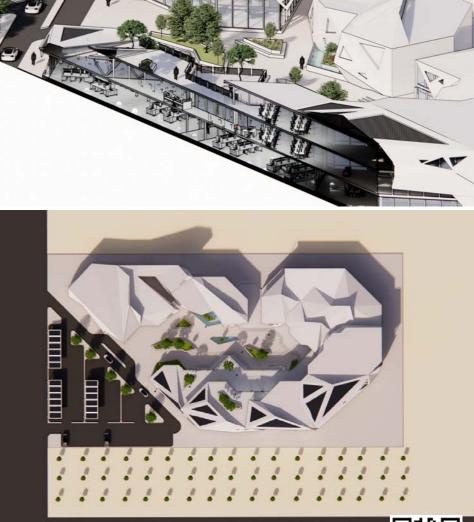






# ARC 511: ARCHITECTURAL INNOVATION AND RESEARCH CENTER

**INSTRUCTOR: DR.ANWAR IBRAHIM** 





### ABDULLAH ALHARRAH

**GROUND FLOOR PLAN** 



### MASSING DEVELOPMENT

### **CONCEPT:**

ATT

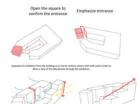
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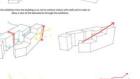
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THE GREEN AREAS IN THE BUILDING ARE PLACED OUTSIDE THE BUILDING TO COOL AND ISOLATE THE SUNLIGHT AND TO ASSURE EVERYONE WHO LOOKS AT THE BUILDING FROM THE OUTSIDE THAT THE BUILDING IS ENVIRONMENTALLY FRIENDLY AND SPREADS THIS IDEA.

HIGHLIGHTING THE STRUCTURE OF THE BUILDING SO THAT IT IS VISIBLE TO EVERYONE AS WELL, TO CONFIRM THAT THE BUILDING IS FOR THE ARCHITECTS.

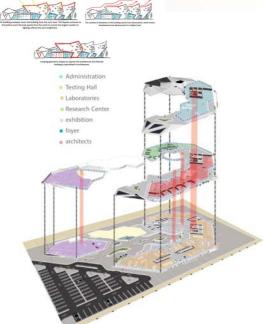
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SECTION A-A



# FACULTY RESEARCH

The architecture paradigm gap between Architectural Pedagogy and professional practice in KSA

### Abstract

The architecture as a paradigm, whether it is from the academic or the practice perspective, it has always been a problematic encounter. The idea of experiencing diverse challenges between the academic learning environment and the professional fields, usually encompass a sense of dis-connectivity. Architect as Danial Libeskind believes that there is a wide gap between 'what is taught and how and what is built and why'. This is not the only perspective that discusses the seclusion between academia and professional practice in architecture. Professionals around the world are of the opinion that this gap is expanding and becoming wider.

It has become crucial to investigate this pedagogy dilemma. Literature has dedicated a great deal of consideration on approaching the concrete causes of the gap between the academic learning environment and the professional practice in the architecture field.

The current study aims to implement a wide range of deductive research to unlock the dimensions causing the gap between academia and profession in Kingdom of Saudi Arabia and explore various pedagogical approaches in the field of architectural education.

The methodology is tackling qualitative and quantitative approaches, first, it utilizes the comprehensive literature review regarding the teaching methodologies and curriculums of Bachelor Architecture programs within a sample of public and private universities in Kingdom Saudi Arabia. Running across serious of multiple layers of analysis regarding the number of courses, credit hours, the various topics and disciplines covered within the program, and how it could be supporting the professional challenges and career competition. Second, the methodology adopts the semi-structured interviews as a tool to investigate and evaluate the relevance and effectiveness of Skills and knowledge imparted by the institutes and the expectations of professional architects/firms.

The research argues its findings by highlighting the problem that faces the architectural educational process in KSA and its impact on the profession. The research concludes its outcomes by indicating the key factors that could bridge the gap, while highlighting the challenges facing academics on the educational level, the architecture firms on the managerial level, and finally, the potential architecture graduates from the career perspective. it draws attention to the outcome of this process and pave the road for further discussion.

### **DR.Dalia Abdel Fattah**



Batoul Siwar Raghad Aboukhater



MS.Sara Alansary

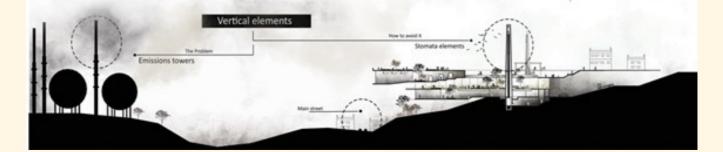


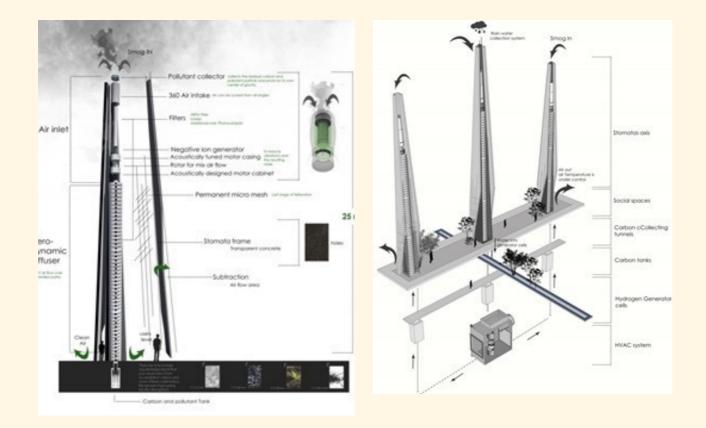
Association of Architectural Educators Conference 12-15 July 2023 Welsh School of Architecture, Cardiff University, Cardiff, UK.

### STOMATA SPACE: AIR POLLUTION AS A RESOURCE; ARCHITECTURE AS A RESPIRATORY SYSTEM

### Abstract:

Air pollution is one of the greatest worldwide challenges in the recent time particularly in industrial areas. It jeopardizes humans, animals and plants' lives by causing several serious diseases. Those who live in contaminated areas are more prone to lung cancer, heart disease and many other chronic respiratory diseases. In Jordan, approximately 600 people die prematurely annually because of pollution. Therefore, looking for environmentally sustainable solutions to reduce air pollution is an urgent need. This paper aims to present a sustainable architectural proposal 'Stomata Space' that responds to, and interacts with the environment, by creating zero emission zones in the airpolluted areas. The proposal shows how architecture can respond to the demands of breathers in space through addressing the simple exchange of clean air and toxic gases. The proposal is designed to create a clean air zone around the residential district of Al-Hashmeyah; as the most polluted district in Jordan. The sources of pollution in the area contain a petroleum refinery, a thermal station for generating electricity and a number of industrial factories, which in sum greatly contaminate the air. The proposed design responds to the town's industrial landscape by creating series of purification towers that act as an environmental and visual counterpart to the factory emission towers that mark the town's periphery; to reduce, re-use, recycle and reverse air pollution architecturally and mechanically. In addition to purifying air, the collected remains and ashes of this process will be recycled into anti-pollution construction material that is expected to be stronger than the ordinary concrete blocks.







Authors: Dr.Anwar Ibrahim and Reem Hussein Livable Cities conference in New York June 14th-16th, 2023

### Problems Encountered in The Assessment of Architecture Design Studio

### Abstract:

The design studio is the core course in architecture education. It is the pot where all complementary courses' knowledge is integrated and implemented. The teaching and learning of the design studio are crucially influenced by the assessment process, in which the quality of the assessment affects the student's learning experience significantly. Hence, this studio-based education system requires great attention to the assessment process. The assessment of design studio projects in Architecture education has always been a dilemma for faculty and jurors due to its challenging subjective nature. Many of the problems associated with the assessment process in design studios have been discussed in publications over thirty years ago, and to this day these problems still stand. This paper is a research review of problems associated with the assessment process of Architecture design studios. This review aims to identify the problems encountered in the design studio assessment and determine the shortcoming of this assessment process. Additionally, this research sheds light on the effectiveness of student-centered teaching in improving the efficiency of the assessment and evaluation processes. Based on the review, the author identified several problems encountered in the assessment process and linked them to three factors impacting these problems. Also, the student-centered teaching approach is recommended for the successful application of assessment and evaluation.

### Author: Rahma Doheim

The 6th International Conference on Research in Teaching and Education Dec., 2022 Oxford, The United Kingdom

# GRADUATES INTERNSHIP

"STAY INSPIRED. NEVER STOPCREATING." We are delighted to share insights on one of our alumnus Arch. Khalid Alnazaha who has been training at National Housing Company (NHS).

Type 1: I-Home Villa, Build Area = 225 m2



Type 2: Rateel Villa, Build Area = 382 m2



Type 2: Shurfa D, Build Area = 384 m2



## Rendered, and 3D shots by using Revit + Lumion by our alumnus Khalid Alnazha.

### Type3: Madaen Villa, Build Area = 260 m2



The idea of Al Fursan project is to design a Modern + Najdi architecture style Housing project and take in consideration to abstract the style into modern style while keeping some Najdi style element to present at the end a façade that have a combination of modern + Najdi Style.



"I would like to thank Al Yamamah University for giving me the opportunity to be a part of a big company such as National Housing Company. From the beginning of searching for a company till I start with NHC, a lot of big companies such as KAFD, Yellow Architect have contacted with me, and I did an interview with them, then I choose the right company that will fit to me and my major and to take all the benefit of the co-op training. All the thanks due to Al Yamamah University who is always trying to give their students the best opportunity and experience to be fully prepared for the work field." - Khalid



## Rendered, and 3D shots by using Revit + Lumion by our alumnus Khalid Alnazha.

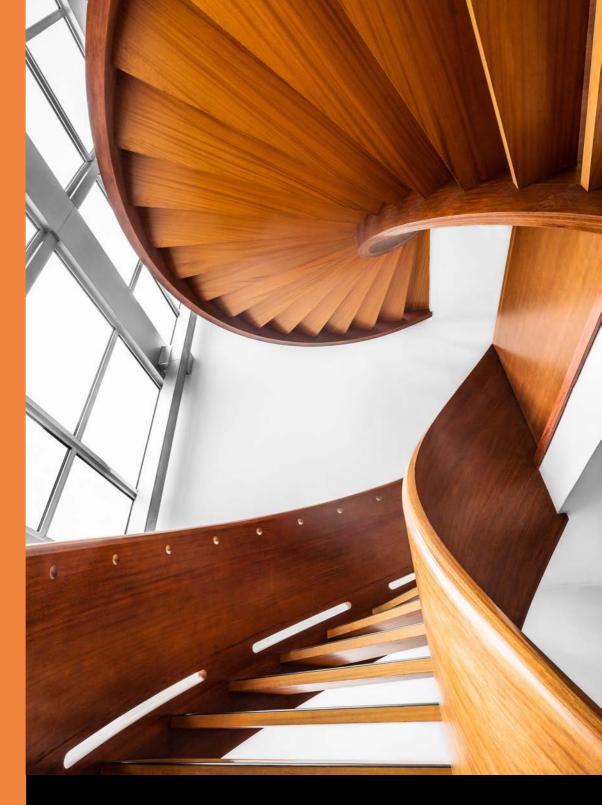


Al Sadan Project: As an architect team, we have assigned to design four different types of villas for Al Sadan project which is located west of Jeddah, the idea of the project was to take in consideration the architectural style and characteristics of Hejaz.



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DONE AND DESIGNED BY: ENG. LARA RAHIM ENG. ESRAA SAMMAN ENG. MAHASEN ALQAHWAJI





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