



كلية الهندسة  
College of Engineering  
QATAR UNIVERSITY جامعة قطر

# al-Imara

# العمارة

Newsletter of the Department of Architecture and Urban Planning

<http://www.qu.edu.qa/engineering/academics/architecture>

Volume 4, Issue 2 | Spring 2021

## Architecture Day Goes Virtual

Join us for a virtual edition of our Annual Architecture Day event hosted by the Department of Architecture and Urban Planning, College of Engineering at Qatar University occurring from 10:00 am – 12 Noon on Thursday, 25 March 2021.

This year's event will merge the 11th and 12th editions of the Annual Architecture Day into a virtual event due to the postponement of the 11th edition because of the global pandemic. The program will feature welcoming remarks by the QU President, CENG Dean, and DAUP Head, a video exhibition of DAUP student work over the last two years, and an "Architecture Education and Practice in the Age of COVID-19" panel discussion moderated by DAUP third-year student and QU-AIAS Secretary Aljazi Al-Banai.

For the "Architecture Education and Practice in the Age of COVID-19" panel discussion, we have invited Ar. Ibrahim Jediah (GCEO, Arab Engineering Bureau), Fabiola Cabral-Monasterios (Project Director, Koichi Takada Architects), Megha Taneja (Qatar AIA Middle East Representative), Sarah Al-Thani (Ashghal and distinguished DAUP alumnus), and Dr. Fodil Fadli, DAUP Department Head to participate as panelists. We look forward to hearing their thoughts about the challenges for architectural education and professional practice during these trying times.

The virtual Annual Architecture Day event will occur using the QU WebEx system for the following program and times:

### 10:00 am: Welcome Remarks

QU President Dr. Hassan Rashid Al-Derham, CENG Dean Dr. Khalid Kamal Naji, and DAUP Head Dr. Fodil Fadli.

### 10:15 am: Architecture Exhibition Virtual Tour

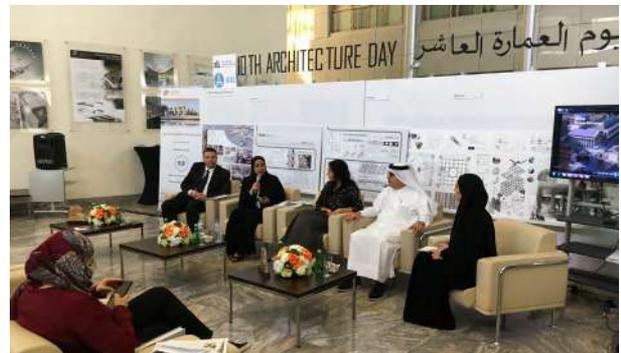
### 10:45 am: AEB Architecture Prize Award Announcement

### 11:00 am: Architecture Education and Practice in the Age of COVID-19

A panel discussion with Ar. Ibrahim Jediah (GCEO, AEB), Ar. Fabiola Cabral-Monasterios (Project Director, Koichi Takada Architects), Ar. Megha Taneja (Qatar AIA Middle East Representative), Ar. Sarah Al-Thani (Ashghal and distinguished DAUP alumnus), and Dr. Fodil Fadli, DAUP Head.

### 12 Noon: Closing Remarks by Dr. Mark David Major

The WebEx link for the virtual 11-12AD event is available [here](#).



11-12



يوم العمارة  
ARCHITECTURE DAY

# From the Head of Department



Welcome to another hybrid-learning semester in the DAUP due to the ongoing Covid-19 global pandemic circumstances. As the DAUP Head, I am very encouraged and enthusiastic about

the abilities of our students, faculty, and staff to turn the challenges of the current semester into opportunities and open horizons for the “new normal” in architectural education. I would like to thank QU, CENG, and our DAUP students, faculty and staff for their continued support, efforts, and assistance during these trying times. The challenges brought by pandemic has enabled a great deal of innovation in the way we deliver teaching/learning practices and develop our research activities and scholarly outputs. Our students, staff, and faculty have been able to power through and produce outstanding results; gains, which will endure and sustain the growth, development, and expansion of our department into the first School of Architecture in Qatar. It is hard to believe but this is the eighth issue of *al-Imara*. Once again, we look forward to your feedback and comments about the latest issue. For the first time, the DAUP is welcoming first-year students during the spring semester in addition to those who joined us in Fall 2020. Welcome! We wish you sustained and exceptional success as you embark on your architectural education. We hope to regularly see you on campus soon. Our students are the cornerstone of our success and the soul of our department. We are happy to welcome you to the family. In this latest issue of *al-Imara*; we introduce you to two of our new colleagues: Dr. Tarryn Paquet and Ar. Mirna Pasic. This issue also offers the latest student news about the QU-AIAS and AEB Excellence Architecture Award, the plan for a virtual 11th-12th Annual Architecture Day on Thursday, 25 March 2021, and the latest news about ongoing teaching, research and societal outreach in the DAUP. We look forward to bringing you the best of *al-Imara*! Stay safe and healthy!

*Dr. Fodil Fadli*  
1 March 2021

## ABOUT THIS ISSUE OF AL-IMARA

# From the Editor



Winter is over, spring is here and *al-Imara* is flourishing with colorful news! We are back for a new semester. We hope everyone had a chance to relax and enjoy the architecture and urbanism

of Doha during the fantastic weather without forgetting to stay safe during the global pandemic. *Al-Imara* is coming back with exciting new studio projects, ‘new’ news, and new stories! First, we would like to thank students Maryam Al-Nuaimi and Moza Al-Obaidan for their volunteer assistance on the Newsletter Task Force over the last two years. As usual, there are many exciting topics about student work, efforts in the department, and our new colleagues in this latest issue. There is special coverage on virtual events, interviews with new colleagues, and upcoming seminars/workshops related to our field. So, grab (or download) your copy of *al-Imara*. Sit back and enjoy our news about our department.

*Architect Reham A. Qawasmeh*  
1 March 2021

*Newsletter of the  
Department of Architecture and Urban Planning  
Volume 4, Issue 2 | Spring 2021*

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## THREE QUESTIONS

# Dr. Tarryn Paquet



Dr. Tarryn N. Paquet, joined Qatar University as a Studio Instructor in Spring 2021. In this issue, Dr. Tarryn answers 3 questions, so we can get to know her better. Dr. Tarryn is a South Africa planner

who graduated with a PhD in Architecture and Urban Planning from the University of Cape Town. She is a member of the South Africa Planning Institute since 2003.

## Who was your role model when you were a student?

I've never had one specific role model. Rather, my opinions of various authors/designers have burgeoned, ebbed and sometimes resurfaced as my own stances have developed. For example, I loved quoting Aristotle in my first and second years at varsity. I kind of forgot about him for a few years but had to look into translations of his original texts for my PhD. Now, my various stances changed A LOT during these years. I thought I knew much at the beginning but realized how little I actually knew at the end of it all. As a young PhD Candidate, Aristotle's views often left me indignant and, well, rather fiery. But, I have come to realize that so much of our knowledge as a society is determined by the times we live in – there is much good but always room for improvement.

## How is your experience of teaching at Qatar University?

It has brought me a great deal of joy. The staff and students affiliated with DAUP are warm, intelligent and very exciting to be around.

## What are you passionate about?

Margaret Mead said, "Never doubt that a small group of thoughtful committed citizens can change the world. Indeed, it is the only thing that ever has." I suppose my passions can be traced back to this. To being a small voice committed to the well-being of people in the face of all the huge challenges of the world, and our children, are facing.

## UPCOMING EVENTS

AEB Architecture Prize Deadline  
**Sunday, 21 March 2021**

[11th-12th Annual Architecture Day](#)  
**Thursday, 25 March 2021**

Ramadan  
**Monday, 12 April–Wednesday, 12 May 2021**

Final Exam Period  
**Saturday, 17 April–Thursday, 6 May 2021**

End of the Spring Semester for Students  
**Thursday, 6 May 2021**

*Stay tuned for more event announcements!*

## News Bits

The QU Department of Architecture and Urban Planning and The Welsh School of Architecture at Cardiff University hosted their first joint webinar about "Heritage and Conservation" on Wednesday, 17 February 2021 on the WebEx Platform. Speakers included **Dr. Fodil Fadli** and **Dr. Djamel Boussaa** of the DAUP. Other speakers included **Dr. Magda Sibley** and **Bayan el Faouri** of Cardiff University in Wales, and **Sarah Al-Thani** of Ashghal in Qatar. DAUP Lab Architect Ms. **Maha Sobey** moderated the event.

**Arch. Sara Zaina**, Graduate Assistant and PhD Student, and **Dr. Fodil Fadli** at DAUP gave a presentation about Sustainable Building Components: A Technical Review of Green Roofs. at the *12th International Exergy, Energy and Environmental Symposium* in December 2020.

**Dr. Mark David Major** and fourth year students **Doha Elsaman Lolwa Al-Mohannadi**, **Meera Al-Khulifi** and **Shaikha Al-Thani** gave a presentation about post-occupancy evaluation of the BCR Corridors at QU at the *12th International Exergy, Energy and Environmental Symposium* in December 2020.

**Dr. Fodil Fadli** talked about "Architectural Education Digital Shift; a Pandemic Experience" while **Dr. Madhavi Indraganti** spoke about UREP challenges and opportunities for students during the pandemic. Both were part of the *Education, Engineering Education and Instruction Technology Conference* held virtually in Qatar University on the 23-24 February 2021. **Dr. Djamel Boussaa** and **Dr. Fodil Fadli** also chaired sessions and moderated keynote speeches at the same conference.

**Dr. Fodil Fadli** has been invited to deliver a talk about his research project SPORTE3Q (Smart Sustainable Stadiums and Sports Facilities for Qatar 2022, a Carbon Neutral FIFA World Cup) hosted by CENG Academia-Industry Research & Development Webinar on "New Trends in AEC Industry" planned for 10 March 2022.

## THREE QUESTIONS

## Arch. Mirna Pasic



Arch. Mirna Pasic, joined Qatar University as a Studio Instructor in Spring 2021. In this issue, Mirna answers three questions, so we can get to know her better. A Bosnian born to ex-pat parents living in

Doha, Mirna is a graduate in architecture from South Bank University in London, United Kingdom.

insightful, and welcoming. As a Studio Design Instructor, I am learning a lot and gaining a deeper understanding of students' varied learning preferences from this experience. Watching my students gradually progress with their skills and grow into young architects and designers is very rewarding. I admire and value the DAUP focus on keeping the curriculum up-to-date and relevant to the current times, as this keeps the course exciting, fresh and relatable for the students. My students are currently creating designs based on biomimicry!

### Who was your architecture role model when you were a student?

There are so many, it's hard to pick one! I was inspired by Paolo Soleri's concept of Arcology – an approach fusing architecture with ecology. His architecture attempted to minimize the environmental footprint of modern city designs through thoughtfully designed, dense, mixed-use city structures, built vertically rather than horizontally, in order to minimize further destruction of the land, its species, the use of cars, and create a more communal sense of living for society.

### How is your experience of teaching at Qatar University?

Working at QU has been a very rewarding experience and the DAUP faculty have been extremely helpful,

### What are you passionate about?

I am passionate about experimental architecture that considers and aims to address social and environmental issues. I believe that functionality must be at the core of architecture and design, to help aid and inform its user[s], as well as resolve and mitigate defined needs or issues. Architecture has the ability to affect positive change and improve habitats and living systems, and academia gives students the space to test architecture's limitless approaches and possibilities through the design process. I am passionate about empowering young architects and designers to use architecture as a tool to become change-makers and problem solvers in society and to think beyond a one-dimensional utility of design.

**THE DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING**  
CORDIALLY INVITES YOU TO

**11-12** يوم العمارة  
**ARCHITECTURE DAY**

**Virtually on Webex**  
[CLICK HERE](#)

**Thursday 25-03-2021 @ 10:00 am -12:00 pm**

10:00 Welcoming & Opening Remarks  
10:15 Architecture Exhibition Virtual Tour  
10:45 AEB Architecture Excellence Award Announcement  
11:00 Panel Discussion "Architecture Education and Practice in the Age of COVID-19"  
12:00 Closing Remarks

Supported by






## STUDENT FOCUS

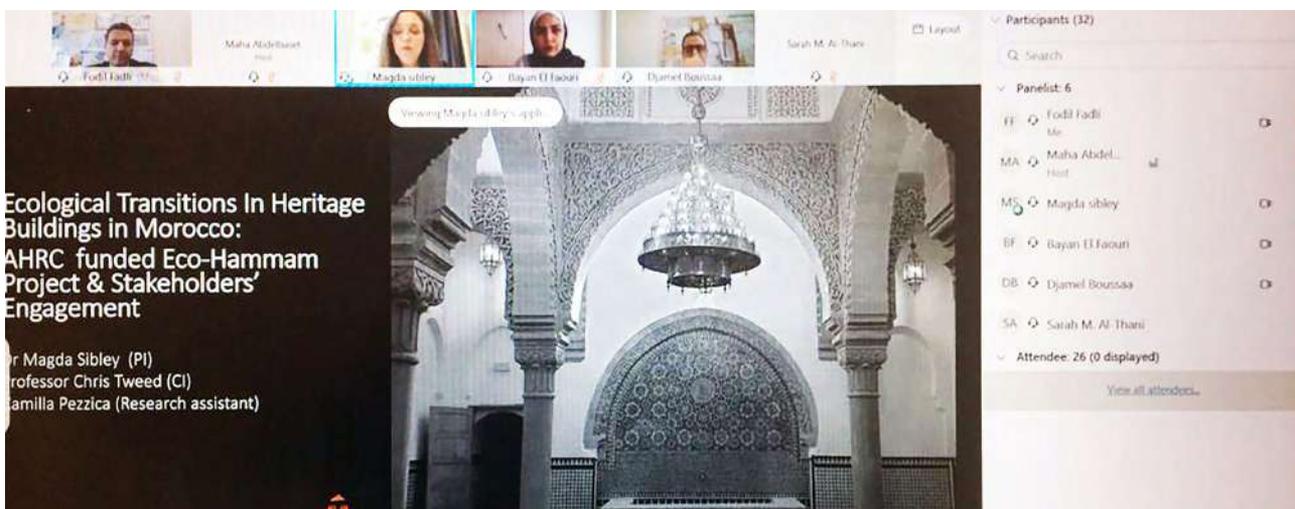
## QU-AIAS Elect New Leadership Team

QU-AIAS held 2021 virtual elections on Thursday, 28 January to elect new officers and batch representatives. The primary purpose of the elections was to identify the successors to Senior students President Maryam Al-Nuaimi and Secretary Moza Al-Obaidan, who have helped to lead the QU-AIAS over the last two years. Former President Maryam Al-Nuami said, "It was a wonderful time serving as President. We aimed to provide enriching events for our members, we had the workshops taught by our members, participated in events and empowered our student voices in department events such as Architecture Day. It was a wonderful time being President." She added, "I would like to thank Dr. Mark for being on our side and helping us out with the chapter. Also, the department for allowing us to host the chapter and, lastly, I'm sure the next board members will do great things in the future." Maryam and Moza each received a Certificate of Appreciation for their leadership and service from the new leadership team at the conclusion of the largest meeting ever hosted by QU-AIAS.

The students elected Bashayer Al-Niami (third year) as the new QU-AIAS President after she had served a one-year term as the Vice President. On her election as President, Bashayer said, "I want to thank President Maryam for the last two years and Moza Al-Obaidan as well. I can't wait to work

with you." The students also elected Shaikha Soud Al-Thani (fourth year) as the new QU-AIAS Vice President after she served two years in the role of Treasurer. Aljazi Al-Banai (third year) is a new officer of the leadership team after the students elected her the new QU-AIAS Secretary. All three won election after a voice vote. There was a contested election between two second-year students for the position of QU-AIAS Treasurer. The students narrowly elected Asmaa Al-Romole for the role. The existing batch representatives of Rowaida Elnahas (Senior), Fatima AlHajri (fourth year), Ghalya Al-Madeed (third year), and Hissa Al-Kuwari (second year) were re-elected on a voice vote for another year. The students also elected former BArch graduate and new MUPD student Dala Al-Ansari as the QU-AIAS Graduate Representative. Finally, there was a contested election for the First Year Batch Representative, which Sara Ameer Al-Baker won handily. Congratulations to our new QU-AIAS leadership team!

The former officers have already begun the process of briefing our new officers on their duties. We look forward to their contributions as the leaders of the QU-AIAS over the coming year and beyond. The first big event on the agenda is their 11th and 12th Annual Architecture Day on 25 March 2021



*The first joint research seminar about "Heritage and Conservation" on Wednesday, 17 February 2021 on the WebEx Platform. Speakers included Dr. Fodil Fadli and Dr. Djamel Boussaa of the DAUP. Other speakers included Dr. Magda Sibley and Bayan el Faouri of Cardiff University in Wales, and Sarah Al-Thani of Ashghal in Qatar.*

AWARD FOCUS

# DAUP Students Batool Alshaikh and Ola Hwari Win Commercial Bank Competition



Commercial Bank and Qatar University held an award ceremony at Qatar University on Wednesday, 18 November 2020, to announce the winners of a design competition aimed at creating a modern banking experience suitable for QU students.

Alshaikh and Ola Hwari in the DAUP at QU were selected as the prize winners, winning a QR10,000 prize each, an internship at Commercial Bank, and the opportunity to work with the professional design team to see how their ideas can be brought to life.

Amit Sah, EGM and head of Retail Banking at Commercial Bank, said: “As part of our Sadara Youth product offering, and based on our deep understanding of how important it is for students to express themselves, we are proud to say that the collaboration with Qatar University was indeed a great success.” QU students were requested to develop an idea on how to use the allocated space at the Commercial Bank branch at QU Metro Station, name their project, and pitch their ideas. The competition appealed to a lot of students exceeded the expectations of the jury. From the 29 entries, six finalists were selected by a panel of judges. Batool

Hadeel Salih, Abida Khan, and Rawda Saleem won QR5,000 each; and Saad Haroon Alrashid, Said Haroon Alrashid, Abdulrahman Taher, Hagar Gaber, Abdellatif Mashhour, Tasnim Mashhour, Tariq Daoud, and Amr Ouda were awarded QR1,000 each. Other participants received a certificate of participation.

The success of the competition was attributed to the fruitful collaboration between Commercial Bank and Qatar University (Source: Edited from Commercial Bank via @cbqat and *The Gulf Times*, 23 November 2020).



## AWARD FOCUS

# 2021 AEB Architecture Excellence Award

We are pleased to announce the 3rd Annual AEB Architecture Excellence Award in the DAUP-CENG at QU. In 2020, the circumstances of the global pandemic caused the cancelation of the AEB Architecture Prize program and postponement of 11AD. Senior student Maryam Alkuwari won First Prize at 10AD in 2019.

DAUP and AEB are pleased to invite senior DAUP students to register and submit their design projects for the 2021 AEB Architectural Award. AEB aims to recognize excellence in design and education displaying exceptional approaches to architectural design. Further, our goal is to promote and share architectural experience and knowledge among young architects and academics. We celebrate those who push boundaries and set new standards. AEB recognizes that excellence in architecture goes far beyond practical buildings. Dr Fodil Fadli (DAUP HoD) and Ar. Ibrahim Jaidah instituted the award in 2018 to encourage and assist graduating students as they begin their careers as professional architects in Qatar. Jaidah is a pioneer of a new architectural

movement combining the far-reaching influences of Islamic art with modern styles to create memorable landmark structures shaping the State of Qatar. We believe that great architecture is about creating long-lasting designs that will remain for generations while inspiring people and enriching their lives. Innovative buildings, designs, and landscapes can help form the way we live our lives for the better and enable us to make the most of the spaces we have. This award recognizes exceptional architectural innovation of young architects in Qatar. All senior students of the DAUP at QU are eligible to submit their projects for the competition. An independent jury will review all entries and select the winners, which will be announced at the 11-12AD event on Thursday, 25 March 2021.

Please see the competition guidelines published in this issue of *al-Imara*. The deadline is at 12 Noon on Sunday, 21 March 2021. Our seniors are already feverishly working even now to win this year's award. Good luck, Seniors!

**The Department of Architecture and Urban Planning**

is pleased to announce the launch of

**AEB ARCHITECTURE EXCELLENCE AWARD 2021 EDITION**

Sponsor:  
**ARAB ENGINEERING BUREAU (AEB)**

**Submission is now open!**



Closing Date: 21<sup>st</sup> March 2021

For more details please refer to the terms of reference


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**المكتب العربي للشؤون الهندسية**  
 Arab Engineering Bureau

PROJECT FEATURE: ARCT 511-SENIOR PROJECT PROGRAMMING

# Moza Al Obaidan

**THE PROJECT**

A comprehensive bottom-up approach to increase the vitality and livability of neighbourhoods in Qatar through firstly, e residence. Achieved through number of proposed general design strategies for both the neighbourhood and the living sp

**S C H E M A T I C   P R O P O S A L**



A car free residential neighbourhood that is initially proposed as separating public and private zones (residential areas). The site area chosen to be placed near to the main road with less critical topographic elevations while allowing the characteristics of the site to influence the layout of the master plan.  
The neighbourhood master plan is designed for 1200 residence, where if needed it can be duplicated for larger number or for expansion, using the design strategies recommended.

Windows usually not opened to maintain privacy



Neglected and unused plots

Limited privacy due to neighbours overlooking

Outdoor public areas utilized for car parking

Neglected and unused plots

Unequal communal services planning

Outdoor areas in houses are prioritized for car parking

Lack of outdoor public areas & vegetation

High individuality: Segregated houses with lack of openness

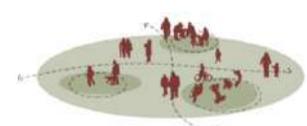
Cars affecting air quality and

**G O A L S   A N D   O B J E C T I V E S**



Neighbourhood vitality

- Healthy, lively and safe human scale neighbourhood
- Allow maximum outdoor activities and interaction
- Respect climate characteristics (microclimate)
- Respect cultural characteristics (privacy)
- Recommend design strategies for neighbourhood design



Productivity, activity & social connection

- Promote wa
- Integrate th
- Design pub
- Integrate co
- Recommend

**RELATIONSHIP BUBBLE DIAGRAMS**



PROJECT FEATURE: ARCT 511-SENIOR PROJECT PROGRAMMING

# Hayy - Vital Neighborhood Housing for Young Qatari Families

enhancing the overall urban design of the neighbourhood and secondly, enhancing the quality of living spaces of Qatari families to be utilized for as strategies for future residential housing projects.

## STAKEHOLDERS

### EXPERTS

- Arch. Ibrahim Aljaidah
- Prof. Ali Abdulraouf

### POLICY MAKERS

- Urban Planner (MME)
- Senior Urban Planner (MME - QNMP)
- Senior Architect & Urban Planner (MEE - QNMP)

### END USERS

- Qatari Community (790 responds)
- Young Qatari Families (96 responds)

PEOPLE ARE NOT THE MAIN MOVEMENT IN THE NEIGHBOURHOOD

Appearance without covering the residence's needs and comfortability

Adding extensions to achieve privacy



sound, safety

Lack of walkability

Lack of micro-climate design and vegetation

Walkability

the concept of farming and food security

public and private farming lands

communal gardens and sport activities

communal responsibilities for residence

Comfortable living spaces

- Maintain QNHS outcomes
- Design different compact & affordable housing typologies
- Respect cultural and climatic characteristics in the design
- Avoid design problems and adaptation methods
- Recommend design strategies for housing design

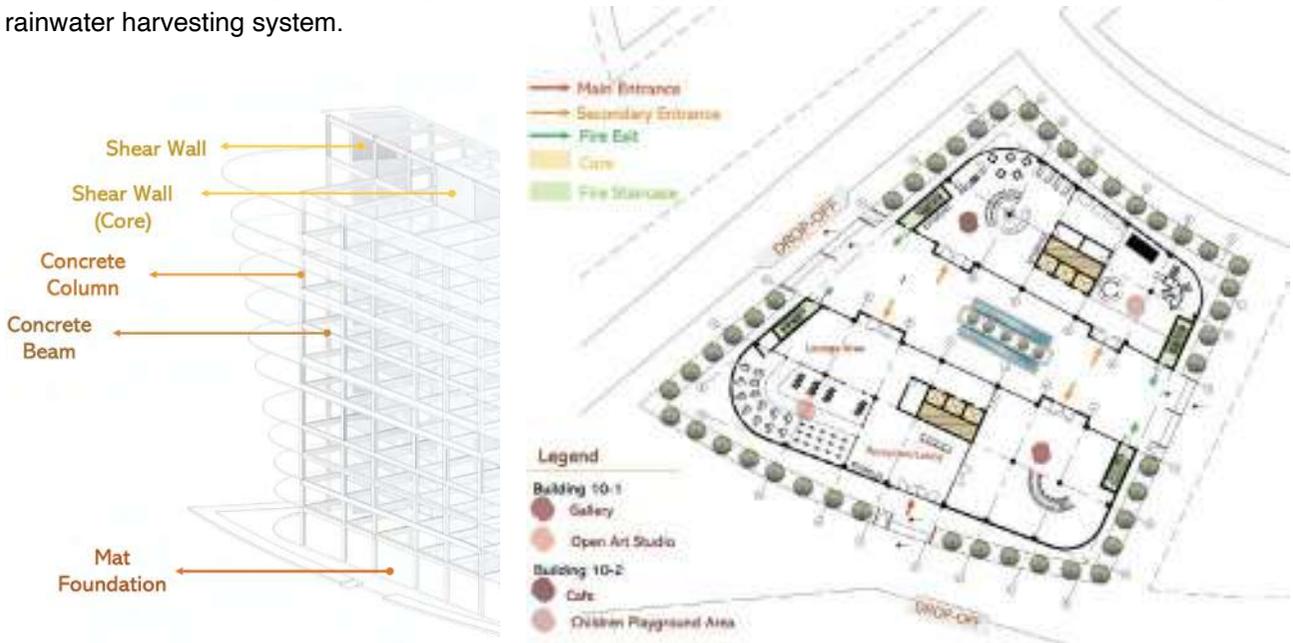
## HOUSES TYPOLOGIES

Courtyard house type 1	Courtyard house type 2	Courtyard house type 3	Apartments	Semi-detached courtyard house
Family members: 4	Family members: 6	Family members: 8	Family members: 4	Family members: 4
Total area : 500 sqm	Total area : 644 sqm (+22% of type 1)	Total area : 788 sqm (+22% of type 2)	No. of Families: 3	No. of Families: 2
			Total area : 970 sqm (240 sqm each)	Total area : 1036 sqm (346 sqm each)

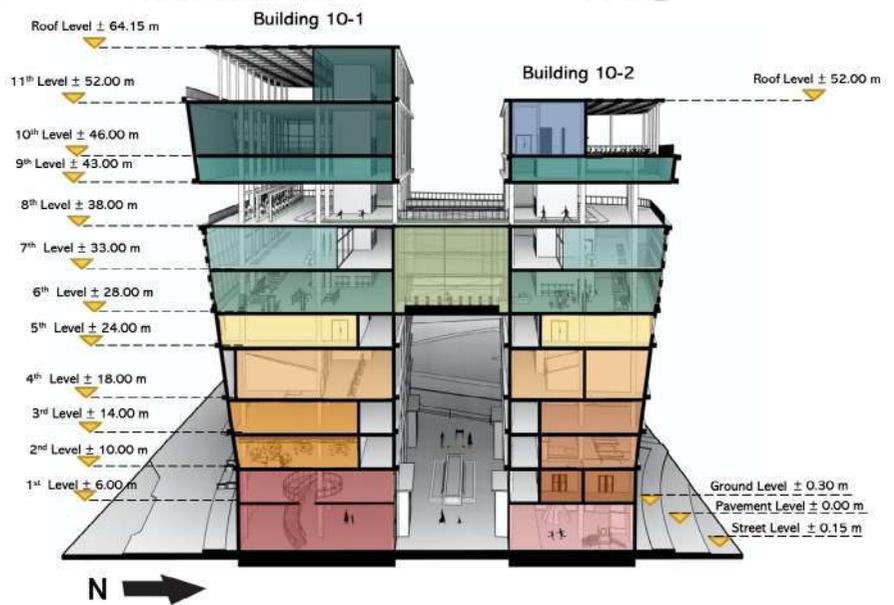
STUDENT WORK: ARCT 410-ARCHITECTURAL DESIGN STUDIO 5

# Lolwa Al-Mohannadi's FUN ESCAPE

The center is designed as a gateway opening towards an existing youth club field of Gulshan in order to create a strong connection with the outdoor, Indoor functions are stacked vertically at different levels. The design has also incorporated green building features like daylighting, passive ventilation, green roof, and integrated rainwater harvesting system.



- Rooftop Pool
- Multi-purpose Hall + Rooftop
- Service Floor
- Spinning Studio
- Aerobics Studio
- Fitness Room
- Lockers and Changing Room
- Squash Courts
- Amusement Arcade
- Gaming Zone
- Administration Offices
- Children Playground Area
- Gallery

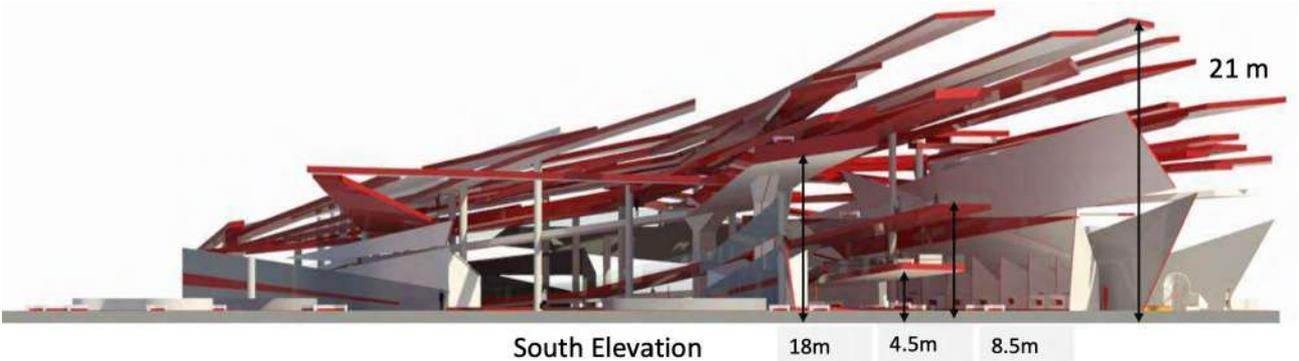
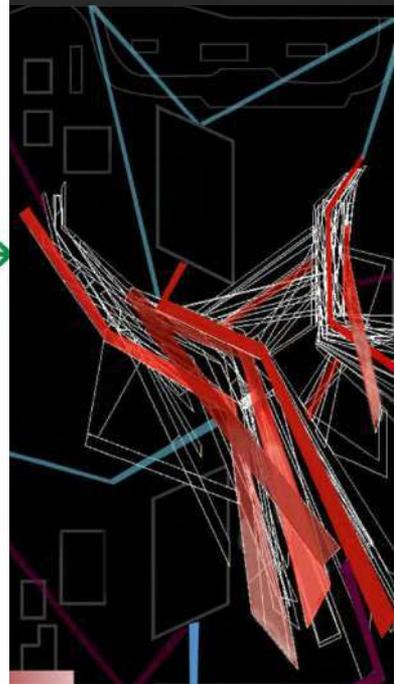
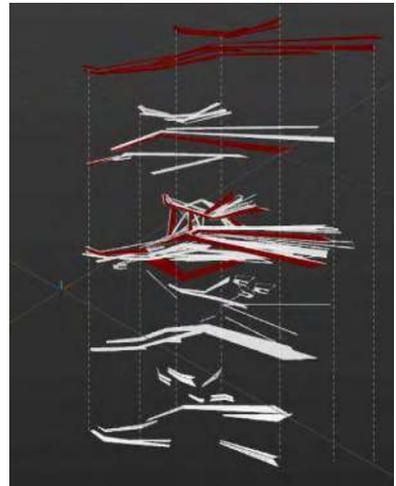
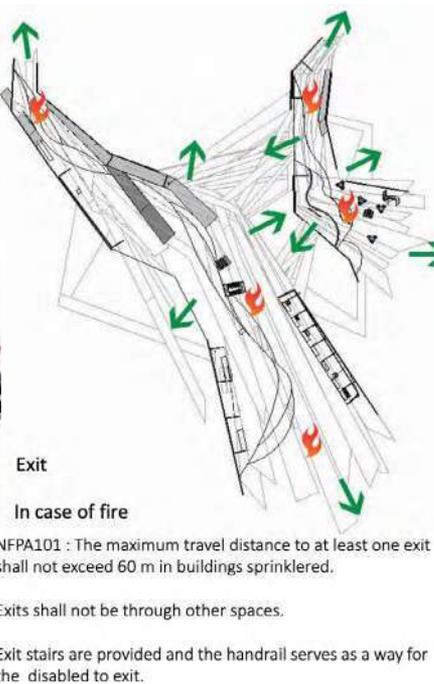


PROJECT FEATURE: ARCT 211-DESIGN STUDIO 1

# Loulyana Al Chalabi Streak Pavilion

Objectives and aim

- To design a place where everything is connected.
- To provide visitors with a special experience.
- To design a pavilion that provides shelter to the retail kiosks.
- To break the pattern of the site.



## TEACHING FOCUS

# ARCT 311 Site Visit with Dr. Hatem & Dr. Rashid

Qatar's construction sector is growing at a faster pace following the massive development projects implemented in the country in line with the State's efforts to meet the goals of Qatar Vision 2030. The students of Architectural Design 4, supervised by the teaching team: Dr. Hatem Ibrahim, Dr. Rashid Al-Matwi, and Ar. Revina Abraham had a site visit on 14 January 2021, to the Entertainment Island- Lusail city as a part of Doha City Eye Skyscraper project. The course is structured with a dynamic studio approach using a project-based learning to allow students to actively explore real-world problems, solutions, and acquire a deeper knowledge.

Doha City Eye Skyscraper with a site area of 15,000 sqm, comprises luxury residential apartments, offices, recreational, entertainment, commercial, observation deck elements for high-end luxury living. The 26 architecture students will execute the project to create an everlasting icon in Qatar. It is a self-sustaining skyscraper that consist of all the amenities, along with a selection of energy-efficient strategies for sustainable development. The project explicitly entails intelligent retrofits to enable optimal usage of energy and reducing carbon emissions for livable communities. The skyscraper design promotes the culture and the urban pattern of the city of Doha with multi-sensory experiences and storytelling.



The teaching team of Architectural Design Studio 4 - Spring 2021 has established an interactive collaboration with Qatari Diar (site stakeholder) to ensure alignment between classroom instruction and on-the-industry requirements. Collaboration with Qatari Diar through Doha City Eye Skyscraper will boost the effectiveness of students' work, aiming to improve the project results and achieve the main project goal. It is a design collaboration benefit that aims at understanding design practices beyond the productivity point of view and take into account the experiential, inspirational, and aesthetical aspects of design practices. The outcomes of this collaboration will reflect the implications for designing technologies and the design studio culture.



## News Bits

**Dr. Madhavi Indraganti** is listed among the top 2% cited researchers in the world under the Building Science/Construction category, according to a study elaborated by researchers from Stanford University in the USA in 2020.

**Dr. Rashed Al Matwi (LPI)** and **Dr Raffaello Furlan (PI)** were awarded a National Capacity Building Grant from Qatar University about Urban Resilience in Qatar: Re-thinking a Framework for the Urban Regeneration and Preservation of the Transit Villages of Old Salata, QNM, Msheireb and Souq Waqif, along the Cultural-Heritage Doha-Metro Corridor in 2021

## STUDENT WORK: ARCT 310-ARCHITECTURAL DESIGN STUDIO 3

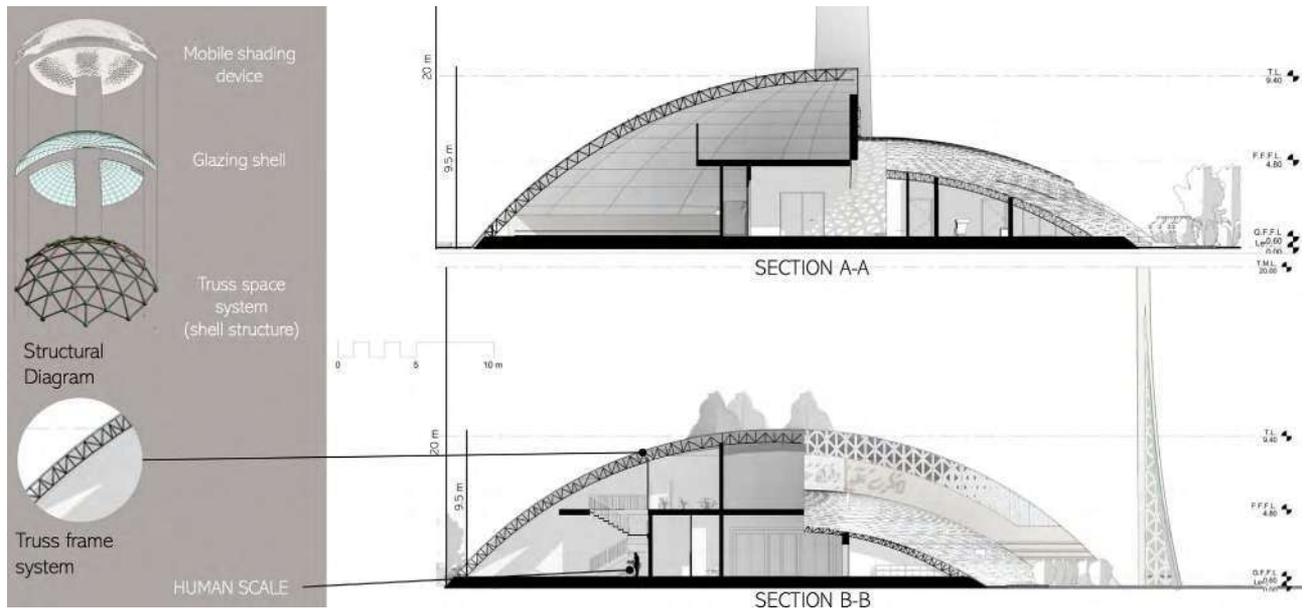
# Nada Hamam's Aspire Park Mosque

### Project Goal:

To design an aesthetic, functional, and a sustainable/green mosque that responds to the climate & efficiently approaches and meets the client's requirements, located near Aspire Park on Furousiya Street – Baaya Doha – Qatar

### Project Objectives:

- Allow the design to integrate with the site.
- Design a green mosque that responds to the Doha climate.
- Approach a well-designed sustainable mosque.
- Use regional-finishing materials in the design.



MAIN/NORTH EAST ELEVATION



## PHOTOGRAPHIC FEATURE | ARCHITECTURE IN FOCUS

# Welcome to The Pearl Qatar in Doha



Welcome to The Pearl-Qatar, “the Riviera of the Middle East” as marketed by developer United Development Company (UDC). The American firm Callison, based in Seattle, Washington, planned the development in 2004. *“The Pearl-Qatar is a destination of choice offering its residents and visitors an integrated leisure experience. On this fascinating Island, luxury living blends with lively shopping and entertainment, and scenic backdrops are complemented by a thriving community lifestyle, making The Pearl-Qatar a true living wonder...”* (Source: <https://www.thepearlqatar.com/>). The Pearl is an artificial island development on 4 km<sup>2</sup> of reclaimed land on the northeastern coast of the Arabian Gulf in Doha, Qatar. UCD named the development ‘The Pearl’ because of its historic location at one of Qatar’s major pearl diving sites (Source: Wikipedia). The Pearl-Qatar created 32 kilometers of new coastline in Doha. There are 12 distinct districts in The Pearl-Qatar though the most well-known as the Porto Arabia high-rise towers, promenade, and marina, the Viva Bahriya beach and high-rise towers, the town center of Medina Centrale, and the Venice-inspired Qanat Quartier. At construction build-out, there will be over 18,000 dwellings for a population of 45,000 people at The Pearl-Qatar.

## RESEARCH FOCUS

# Towards Smart Sustainable Stadiums for a Carbon Neutral Qatar-2022 FIFA World Cup

by Dr. Fodil Fadli:

In the light of the upcoming 2022 FIFA World Cup as one of the prominent sport events in the world, cost-effective solutions that can reduce energy and water consumption, and the carbon footprint while ensuring environmental protection for the stadiums and sports facilities involved in the tournament are becoming increasingly attractive.

A research team from Qatar University led by Dr. Fodil Fadli in collaboration with Cardiff University aims to develop a smart performance management system, namely SPORTE.3Q solution, to optimize the energy and water use, while enhancing users' comfort and assisting the process of decision-making in Qatar-2022 FIFA World Cup stadiums and sports facilities. SPORTE.3Q targets the endemic energy performance gap in existing and new built facilities, and aims to develop and deploy innovative intelligent performance and management solutions for the tournament's stadiums that factor in energy and water use in Qatar.

The SPORTE.3Q solution will target reducing energy consumption by 30–80% and water usage by 10–40%, with commensurate CO<sub>2</sub> reductions and cost savings. SPORTE.3Q will also promote a vision that leverages Qatar's renewable energy potential to increase its revenue by decreasing gradually its reliance on natural resources, which currently amount to 60% of the national economic income. The generated value is not confined to economic benefits such as energy cost savings, but rather translates into a variety of environmental (reduced GHG emissions), social (improved health, community connections) and contextual (improved comfort) benefits.

The AI-powered SPORTE.3Q solution will consist of different modules for metering, optimization, and control that will provide an end-to-end management solution from water and energy production to end-user demand/consumption management in stadiums and sports facilities. Innovative computational tools and artificial intelligence techniques leveraging



*IoT systems, computational tools and AI-based techniques are at the core of SPORTE3Q project*

simulation, neural and genetic algorithms reasoning will be utilized to optimize operation scenarios in the tournament's stadiums, facilities and precincts. SPORTE3Q innovates by designing, developing, and applying AI-powered smart integrated urban systems to manage energy-water nexus for users' comfort, health and safety in stadiums and sports facilities

The team aims to implement SPORTE.3Q solution in 2022 FIFA World Cup stadiums and demonstrate the effectiveness of energy and water management in real-operation contexts. SPORTE.3Q solution will represent the next generation of smart performance management solutions for stadiums and sports facilities to be designed and built in Qatar for the FIFA 2022 World-Cup, in particular, and in the Gulf region and the world in general.

Further details on the project can be found at this link: <https://www.sporte3q.com/>.



*AI-powered SPORTE3Q Platform*



*(left) Khalifa International Stadium and (right) QU Multi-Purpose Sports Hall.*

# About QU-AIAS

The QU-AIAS is an independent, nonprofit, student-run organization dedicated to providing unmatched progressive programs, information, and resources on issues critical to architecture and the experience of education. The AIAS aims to promote excellence in architectural education, training, and practice; to foster an appreciation of architecture and related disciplines; to enrich communities in a spirit of collaboration; and to organize students and combine their efforts to advance the art and science of architecture. Our mission is advancing leadership, design, and service among architecture students. QU-AIAS membership supports architecture students in our department but also across the United States and academic programs around the world. QU-AIAS promote excellence in architecture education, and training. Architectural practice is constantly evolving. A large part of that evolution happens in schools. A pedagogy that promotes experimentation and exploration above all. AIAS members understand their role in the profession as leaders. Not the future of the profession but the now. Programs like Freedom by Design, CRIT and Grassroots mentorship empower students to own that role. We foster an appreciation of architecture, design and related disciplines in departmental events, annual gatherings, and regional conferences, providing students with the opportunity to learn about the issues facing our world, to meet students and professionals with common interests, and to interact with some of today's leading architects and designers. QU-AIAS enrich communities in a spirit of collaboration through the Freedom by Design™ program and other community outreach, we are empower our members and students as a



whole to be good citizens on their campuses and in their communities. We organize students and combine their efforts to advance the art and policy of architecture by being the sole student voice in the collateral discussion and decision making process that include The American Institute of Architects (AIA), The Association of Collegiate Schools of Architecture (ACSA), The National Council of Architecture Registration Boards (NCARB) and The National Architectural Accrediting Board (NAAB). Annual membership dues are \$60. You can join the QU-AIAS online at <http://www.aias.org/membership/#join>. Follow us on Instagram @aias\_qu.

## YOUR QU-AIAS LEADERSHIP TEAM

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New NAAB International Certification Badge for the B.Arch. program in the Department of Architecture and Urban Planning, College of Engineering at Qatar University (Image: DAUP-CENG-QU).

**THE DEPARTMENT OF ARCHITECTURE AND URBAN PLANNING  
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**11-12**  **يوم العمارة  
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**Thursday 25-03-2021 @ 10:00 am -12:00 pm**

**Program**

10:00 Welcoming & Opening Remarks

- A word from Qatar University President, **Dr. Hassan Rashid Al-Derham**
- A word from Dean of College of Engineering, **Dr. Khalid Kamal Naji**
- A word from Head of Department of Architecture and Urban Planning, **Dr. Fodil Fadli**

10:15 Architecture Exhibition Virtual Tour

10:45 AEB Architecture Excellence Award Announcement

11:00 Panel Discussion **"Architecture Education and Practice in the Age of COVID-19"**

*Panelists:*

- **Arch. Ibrahim Jeidah** (GCEO, Arab Engineering Bureau (AEB))
  - **Arch. Fabiola Cabral-Monasterios** (Project Director, Koichi Takada Architects)
  - **Arch. Megha Taneja** (Qatar AIA Middle East Representative)
  - **Arch. Sarah Al-Thani** (Ashghal Public Work Authority and Distinguished DAUP Alumnus)
- With the Participation of: Dr. Fodil Fadli* (Head of DAUP, QU)  
*Moderated by: Aljazi Al-Banai* (DAUP student/QU-AIAS secretary)

12:00 Closing Remarks by **Dr. Mark Major**



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## MENA Space Syntax Virtual Seminars

Second Wednesday of Each Month at 4:00 QST / 1:00 GMT



**Mark David Major**  
**The Doha Syntax & More** with Deepthi John, Qatari Diar  
Qatar University  
11 August 2021

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**Wafa Al Ghatam**  
**GCC Housing & Heritage** with Asmaa Al-Mohanndi, QU  
University of Bahrain  
8 September 2021

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**Chaham Alalouch**  
**Latest Research from Oman** with Heba O. Tannous, QU  
Sultan Qaboos University  
13 October 2021

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**Ayşe Sema Kubat** with Jiin Baek/Mark David Major, QU  
**Urbanism in the MENA Region**  
Istanbul Technical University  
10 November 2021

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**Kayvan Karimi**  
**Space Syntax Today in MENA** with Velina Mirincheva, QU  
University College London  
8 December 2021

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Hosted by the Department of Architecture and Urban Planning, College of Engineering at Qatar University

## AEB Architecture Excellence Award – 2021 Edition

### Sponsor: Arab Engineering Bureau (AEB)

AEB Group CEO and Chief Architect Ibrahim Mohamed Jaidah, and Dr. Fodil Fadli; Head of the Department of Architecture & Urban Planning [DAUP] at the College of Engineering Qatar University are pleased to invite DAUP senior students to submit their related design projects for the 3<sup>rd</sup> Edition of **AEB Architecture Excellence Award 2021**.

AEB aims to recognize the excellence in design and education displaying exceptional approaches to architectural design. Further, our goal is to promote and share architectural experience and knowledge among young architects and academics. We celebrate those who push boundaries and set new standards. AEB recognizes that excellence in architecture goes far beyond practical buildings. The award was instituted by Arc. Ibrahim Jaidah to encourage and assist graduating students as they begin their careers as professional architects in Qatar.

Jaidah is recognized as a pioneer of a new architectural movement combining the far-reaching influences of Islamic art and architecture, with modern styles to create memorable landmark structures shaping the State of Qatar. We believe that great architecture is about creating long-lasting designs that will remain for generations while inspiring people and enriching their lives. Innovative buildings, designs, and landscapes can help reform the way we live our lives for the better and enable us to make the most of the space we have.

This award recognizes exceptional architectural innovation of young architects in Qatar.

All entries will be reviewed by an independent jury that will select the winners.

### Eligibility:

All senior students at the Department of Architecture and Urban planning [DAUP] in the College of Engineering, Qatar University are eligible to submit their projects for the competition.

### Submission Requirements:

The competition is designed to engage students in displaying their creative thinking, analysis and explanatory skills.

To help make the selection fair and rigorous, each competitor should submit two A0 boards maximum along with a design description. However, the boards solely should 'tell the story' and present the key ideas behind the idea and all other material will be considered as supplementary. Winning boards may be used for publicity purposes.

To create a better overview and focus to the jury's evaluation process of the content of submissions, students are requested to submit the materials in the following format:

- Two A0 boards to be submitted in A0 landscape format mounted on 5mm foam-board.
- A design description as a supplement to the design boards. The description should be a double-sided A4 in portrait orientation, clearly stating your individual submission number at the top of each page. A minimum of 500 words is required and should include description of the project, concept, constraints, proposed materials and method of construction, summary of the program and budget constraints if applicable, a short statement on how the building contributes to its

and budget constraints if applicable, a short statement on how the building contributes to its society, and meets the principles of good architectural design. In addition, all entries will need to provide a max 500-word statement to explain how you have addressed the broader aspects of sustainability. For instance, you may wish to describe how the design choices you have made have a positive impact on energy performance, social sustainability, and resilience to climate change and whole life carbon analysis.

- All entries should be submitted both in hard copy and as digital files. Competition entrants should request for an **entry number through [competitions-daup@qu.edu.qa](mailto:competitions-daup@qu.edu.qa)**.
- Digital files naming convention is as follows:  
(**Submission #\_file name**). Example: (AEB\_Comp\_001\_ground floor plan)
- Digital copy should be uploaded and sent in a zip file to [competitions-daup@qu.edu.qa](mailto:competitions-daup@qu.edu.qa).
- The Jury must be able to interpret the quality of submission materials presented based on clarity of text, drawings, and photographs with suitable references, notes, and/or other forms of identification as required. Lack of clarity diminishes the Jury's ability to fairly compare and evaluate nominees. Also, the degree of resolution of all required aspects and details of the project is very important.

#### Criteria of evaluation:

1. Complexity of the project;
2. Ingenuity in the communication of ideas and development of the construction documents;
3. Architectural and conceptual idea ;
4. Environmental and economic sustainability;
5. Contribution to the public realm or environment;
6. Extent of innovation and originality;
7. Use of materials and structural details; and,
8. Ability to inspire and endure as an exemplary work of architecture.

**Submission deadline: Closing date for entry is Sunday 21<sup>st</sup> March 2021 at 12 Noon.**

Projects will be anonymously evaluated using codes of entry. Once you have submitted your work, no changes can be done.

#### Jury members and sponsors:

The Jury appointed by the Department of Architecture and Urban Planning including one representative from AEB will select the winning Young Architects qualified for the prize and it will forward its decision to DAUP to announce the award at the 11-12<sup>th</sup> Architecture Day on 25<sup>th</sup> March 2021. The Group CEO and Chief Architect of AEB shall hand the awards to the winning students.

Name	Affiliation/Position	Brief

#### Awards:

**1<sup>st</sup> prize: 12,000 QAR**

**2<sup>nd</sup> prize: 8,000 QAR**

**3<sup>rd</sup> prize: 5,000 QAR**

All entries will be digitally featured and showcased during the event. Only 3 winning entries will be showcased in hardcopy format.