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### BEIRUT ARAB UNIVERSITY FACULTY OF ARCHITECTURE DESIGN & BUILT ENVIRONMENT Architecture Year Book 2015/2016

Beirut Arab University, Faculty of Architecture - Design and Built Environment, Debbieh Campus,  
2017

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جامعة بيروت العربية  
BEIRUT ARAB UNIVERSITY

Faculty of Architecture  
Design & Built Environment

# ARCHITECTURE YEARBOOK 2015 / 2016





ARCHITECTURE  
YEARBOOK  
2015 / 2016

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**Coordination and Design**

Prof. Ibtihal El-Bastawissi  
Dr. Hisham El-Arnaouty  
Dr. Mohamed Sobhy  
Dr. Maged Youssef  
Ms. Lara Balaa  
Ms. Rasha Sukkarieh  
Ms. Roua Rawass  
Alisar Houshaimi  
Ahmad Issam  
Sena Khateeb  
Mixar Krayem  
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Rawan Noureddine  
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**Cover photo**

Mohamad Kheireddine

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**Prof. Amr Galal El Adawi**

PRESIDENT OF BEIRUT ARAB UNIVERSITY

Confidently, Beirut Arab University is stepping forward towards internationalization via quality of education and scientific research. The FIBAA international accreditation for BAU and validating most of the faculties by the highest recognized bodies testify the continuous seeking for excellence and leadership among the Lebanese universities. The Faculty of Architecture, Design and Built Environment is considered the first in BAU that obtained the validation given by the Royal Institute of British Architects; RIBA, 2012. This was a result of tangible efforts and effective achievements throughout several decades. Generations of influential architects have graduated from the faculty producing great services to the Lebanese society. Many of them have traveled abroad, particularly to the Gulf countries, contributing in architectural projects, while others have continued their postgraduate studies in respectful schools of architecture overseas. In addition, the faculty has recruited the best academic staff coming from different countries such as; Portugal, Spain, Egypt, Italy. It has also invited professors from the United Kingdom, specifically from very well-known universities, as UCL and Cambridge. This unique variety has always raised the teaching quality. Beside education, the faculty has an obvious role in serving community through consultancy, designing projects, and contributing in competitions, workshops, and conferences. Since its establishment in 1960, the faculty has an important role nationally and regionally. This booklet is gathering a prominent selection of students' works, various activities, and many achievements that were done along the academic year 2015/2016. It is therefore physical evidence on the persistence of the faculty in its tender, progress, and eager to occupy a promising rank among schools of architecture on the global map.





### **Prof. Ibtihal El-Bastawissi**

DEAN FACULTY OF ARCHITECTURE  
DESIGN AND BUILT ENVIRONMENT

The Faculty of Architecture, Design and Built Environment is proudly honored to publish this year-book that recapitulates the educational achievements of students throughout the academic year 2015/2016. The reader can figure out the sequential hierarchy of design complexity from a level to another. In the higher levels, design concepts became deeper and student's ability to abstract, combine, and create a correct relationship between functions became mature enough to compete locally and internationally. Through glimpsing an eye on students' design projects, it can be noticed that there is a clear design paradigm leading ideas, which reflects the faculty's approach in mingling creativity with reality. Thus, this booklet identifies how the architectural character of students has been built starting from the first year level till the graduation, enabling the graduate to contribute in teamworks for real architectural design projects. It is in fact not the first publication of the faculty, rather, APJ; Architecture and Planning Journal is the main publication that has been issued since 2009, and other booklets were published including students' works for past years. Finally, I wish this booklet between your hands may find its fruitful echo among the academic achievements and becomes a useful guide for student's way of thinking.

## FULL TIME FACULTY



**Dr. Marwan Halabi**  
Assistant Dean



**Prof. Ayman Afify**



**Assoc. Prof. Nader Azab**



**Assoc. Prof. Hisham Al Arnaouty**  
Coordinator of Design Programs



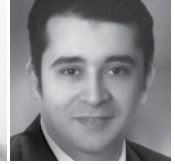
**Assoc. Prof. Baher Farahat**



**Dr. Kareem Galal**



**Dr. Mohamed Sobhy**



**Dr. Samer Sayary**



**Dr. Osama Omar**



**Dr. Massimiliano Gotti Porcinari**



**Dr. Maged Youssef**



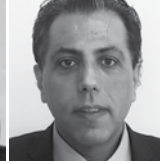
**Dr. Nael Al Sarrag**



**Dr. Chadi Khoury**



**Dr. Hiba Mohsen**



**Mr. Khaled Sadek**  
Senior Lecturer



**Ms. Lara Balaa**  
Senior Lecturer



**Ms. Rasha Sukkarieh**  
Senior Lecturer

## PART TIME FACULTY



**Mr. Shafik Turk**



**Dr. Said Jazairi**



**Dr. Mohamad Al Saidi**



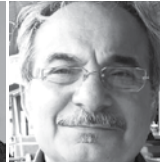
**Mr. Abdul Razzak Balaa**



**Dr. Sami Mneimneh**



**Dr. Saad Khaled**



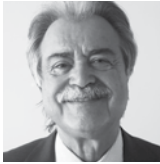
**Dr. Adnan Khouja**



**Dr. Mohamad Yassine**



**Mr. Nabil Azar**



**Mr. Refaat Saad**



**Mr. Nabil Itani**



**Mr. Abdul Wahed Chehab**



**Mr. Aref Al Ariss**



**Dr. Youssef Soubra**



**Mr. Marwan Turk**



**Mr. Rabie Shbaro**



Mr. Saleh Rifai

Ms. Nabila Al Ghabra

Mr. Bassam Shehadeh

Mr. Mohamad Ghazal

Mr. Ashraf Saadeh

Ms. Hoda Alwan

Ms. Iman Kibbeh

Ms. Nahed Hamwi



Mr. Bassam Ali Hassan

Dr. Garo A vessian

Dr. Tarek Khoury

Ms. Farah El Zein

Mr. Mohamad El Kassir

Mr. Mazen Mrad

Ms. Therese Yared

Mr. Rabih El Awad



Mr. Mohamad Shatila

Mr. Amjad Chamseddine

Mr. Ziad Shaaya

Mr. Mohamad Abou Chakra

Mr. Daoud Badran

Ms. Roua El Ghosh

Ms. Shereen Khalil

Ms. Lamis Mantash



Mr. Ali Rashid

Mr. Rabih Burji

Mr. Alaa Jazairi

Mr. Salah Missi

Ms. Roua Rawass

## ADMINISTRATIVE STAFF



Ms. Nivine Jalaleddine  
Faculty Registrar

Ms. Nisreen Ghorayeb

Mr. Marwan Masri

Mr. Khaled Itani

Mr. Abdallah Saab

Mr. Jamal Chamseddine

Ms. Nadine Abou Chakra

Ms. Manar Damaj

STUDENT WORKS

# SELECTED EXERCISES

## STAGE 01

### Architectural Design Fundamentals: Visual Studies [Arch 271]

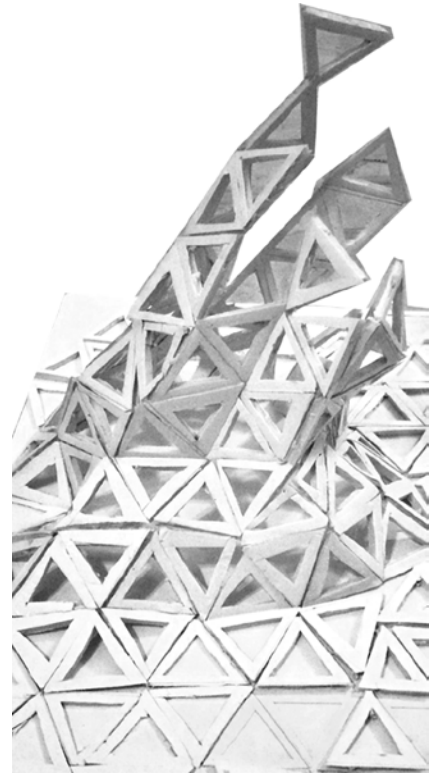
Fall 2015 – 2016

Ghina Kanawati  
Omar Sabaayon  
Yasmine Makkari  
Layale El Zein  
Abbas Issa  
Iman Najjar  
Ibrahim El Jamal  
15 weeks

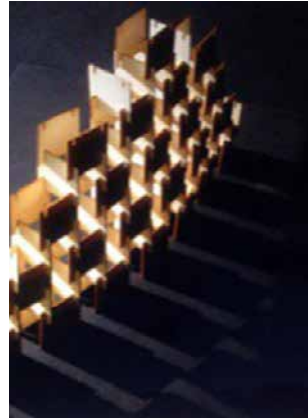
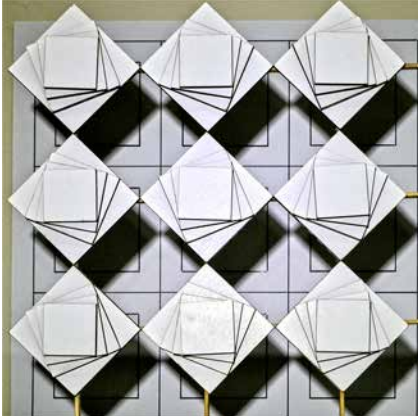
#### Instructors

Prof. Ibtihal El-Bastawissi  
Dr. Mohamed Sobhy  
Dr. Osama Omar

This introductory course includes fundamentals of architectural drafting techniques, two dimensional representations, and orthographic projections. Studies of artistic expression and inventive composition, as well as principles and rules of visual composition are translated into models. Experimentation, diverse tools, and materials are used to visually interpret artwork and design concepts which became evident in the practical considerations and applications. Students are introduced to the architectural design discipline through design projects, workshops, tutorials and lectures.







# A SPACE FOR A CREATIVE – TO DWELL PROJECT

## STAGE 01

### Architectural Design Fundamentals: Physical Studies

[Arch 272]

Spring 2015 – 2016

Ahmad Younes

El Sayed Mahdi

15 weeks

### Instructors

Prof. Ibtihal El-Bastawissi

Dr. Mohamed Sobhy

Dr. Osama Omar

As a progression from 'To Shelter' & 'To Appreciate', the task of 'To Dwell' becomes more complex and has more aspects to be considered.

### The Project

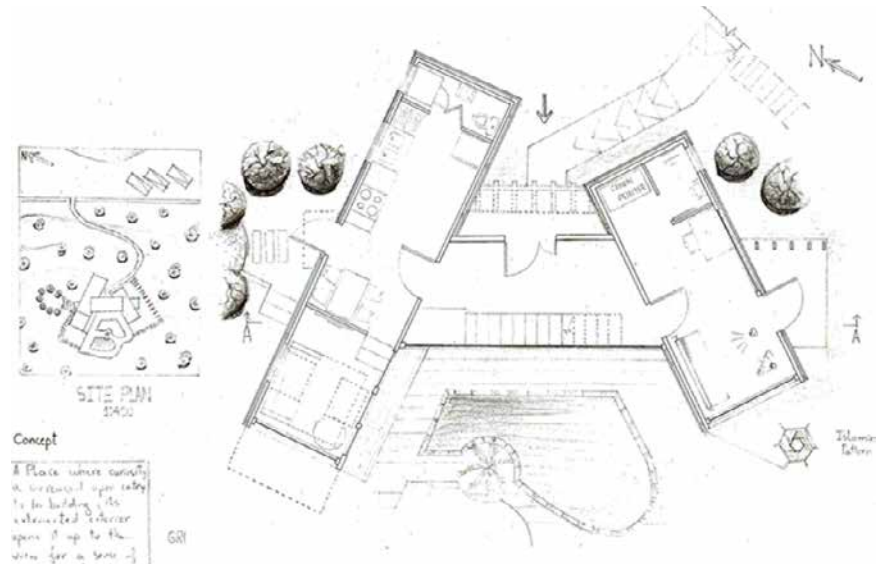
The task was to realize someone else's dream, to design the living and workspace for a single designer. A creative space that creates different environments. The design concept is guided by the creative needs of the occupant. Their client was a designer, whether:

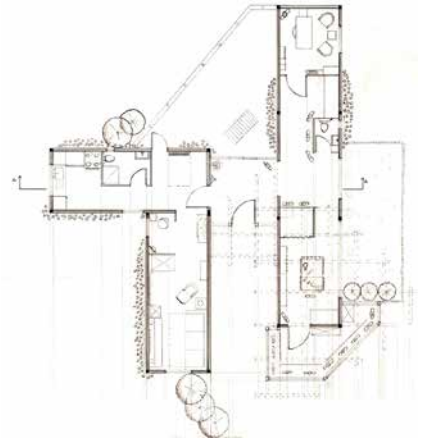
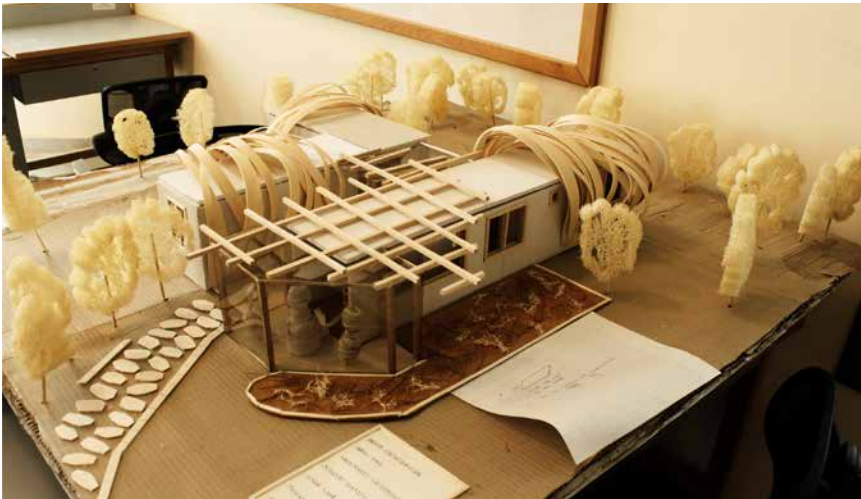
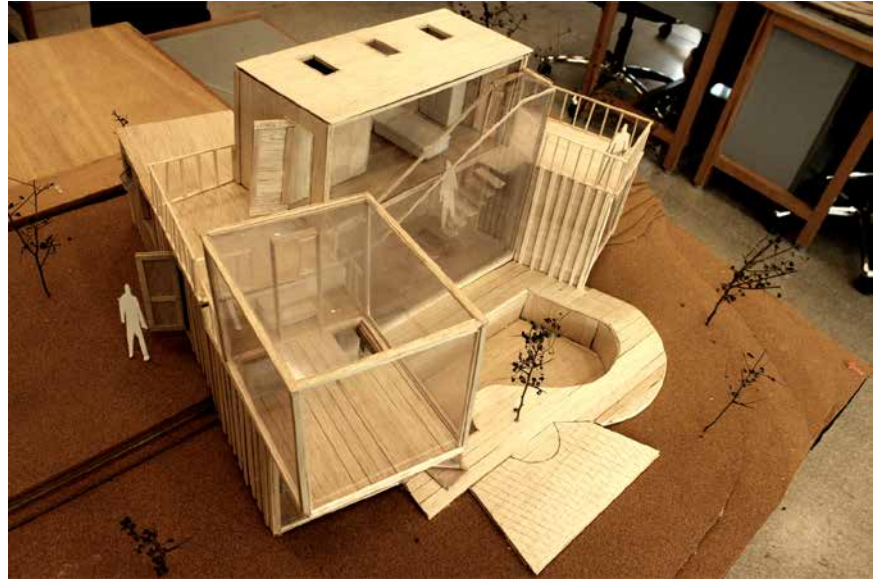
1. An Architect
2. A fashion Designer
3. A Cartoonist, a comic artist
4. A Product Designer or else

Students had all freedom to draw the personal traits of the chosen client based on fictional or real characters. The special aspects of the client's character dictated by his job shall be taken into consideration in design.

### The BOX:

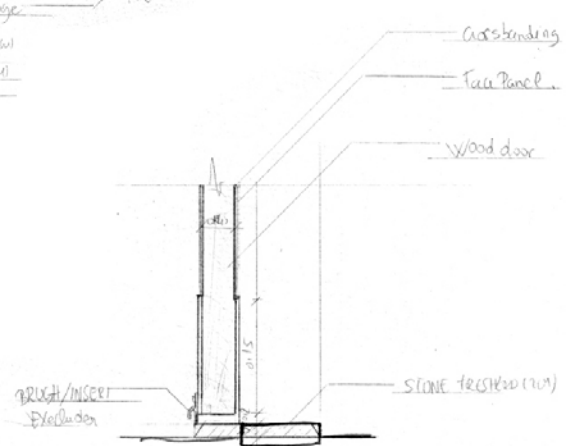
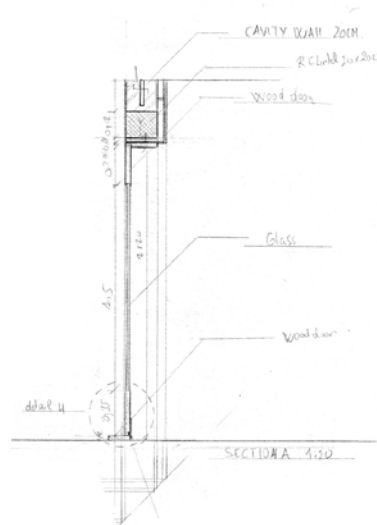
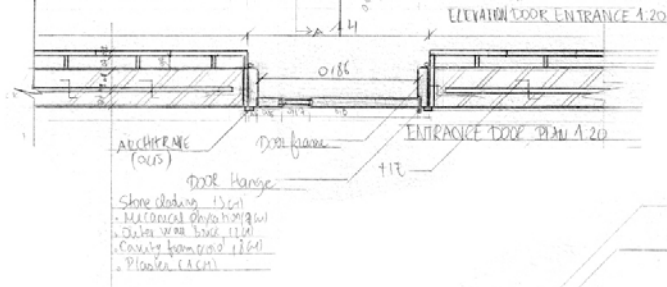
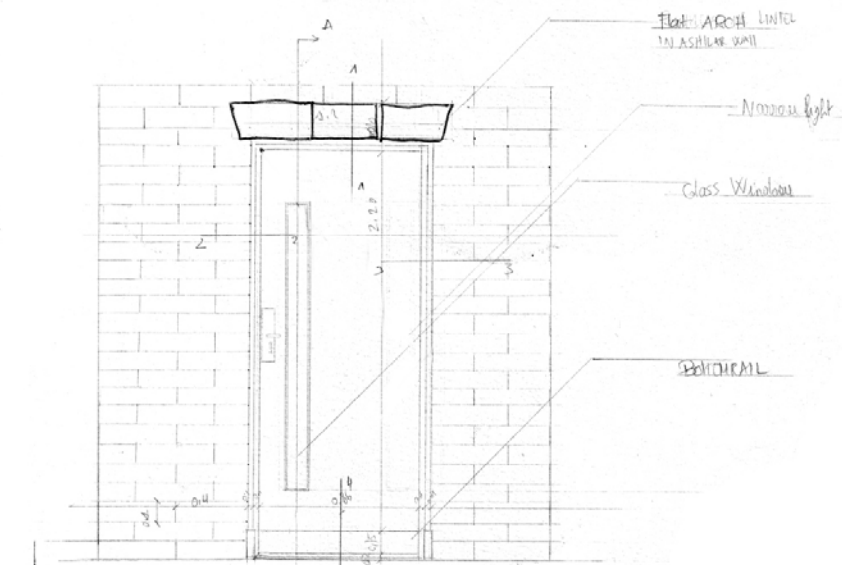
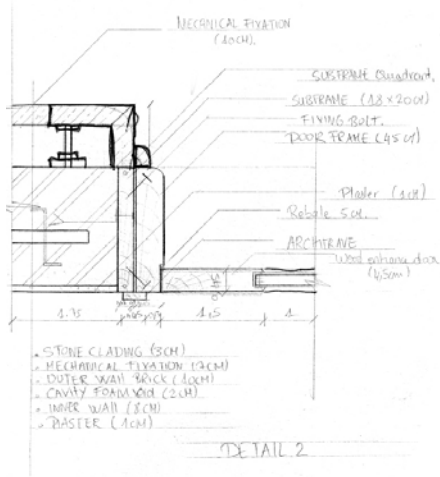
One of the main formal constraints of this project is to be realized using 60 m<sup>2</sup> of shipping containers. The use of containers as a building has grown in popularity for the past several years due to their inherent strength, wide availability, and relatively low cost.











# COMMUNITY CENTER

## STAGE 02

### Architectural Design I [Arch 291]

Fall 2015 – 2016

**Sena Khatib**

Chhim – Lebanon

6 weeks

#### Instructors

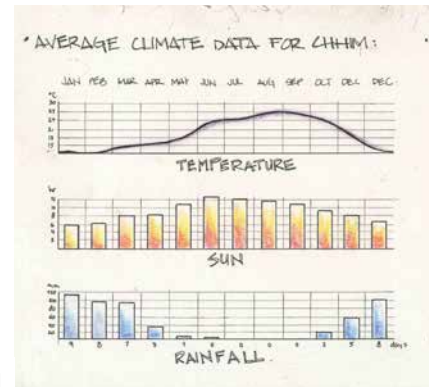
Dr. Baher Farhat

Dr. Sawsan Saridar

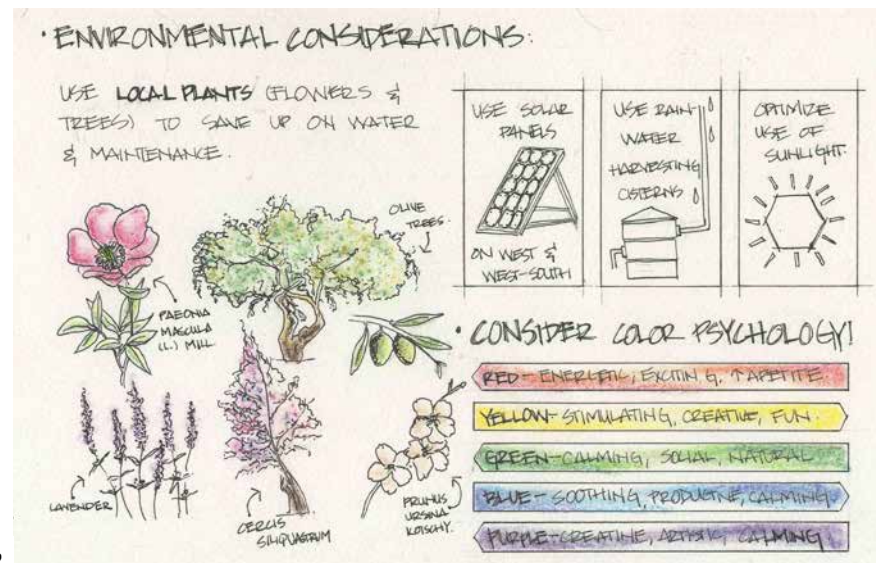
Dr. Massimiliano Gotti Porcinari

Dr. Rania El-Messeidy

The main aim of this project was to create a sense of community in the village of Chhim; a space for people of all age groups gathering and socializing. For this purpose, the sociability, comfort, image, accessibility, and activities of a good community space were explored. Instead of focusing solely on the visual aspects of the project, a complete multi-sensory experience must be created for the users. Sight, sound, touch, and scent must all be focused on and included. Landscaping plays a large role in exciting users and creating a bond between them and the space they are occupying, thus enhancing the overall experience of space. In addition to increasing the sense of community, this sensory experience makes the people want to come back.



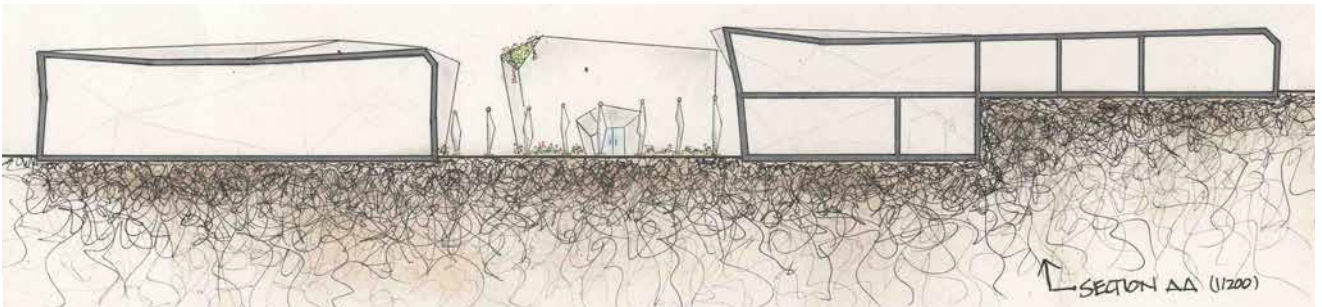
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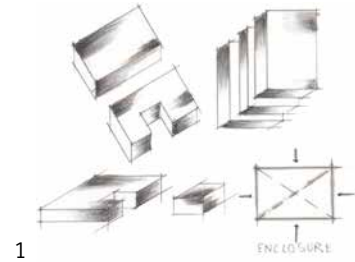
4



# ELEMENTARY SCHOOL

## STAGE 02

The project, by its function as an active urban facility, is a key part of the city of Saida. The main aim of this project is to create an appropriate space including an elementary school and a functional public library. The school plot is an important link between the historical Saida and the new Saida.



### Architectural Design I [Arch 291]

Fall 2015 – 2016

Ghadir Mostafa

Saida – Lebanon

6 weeks

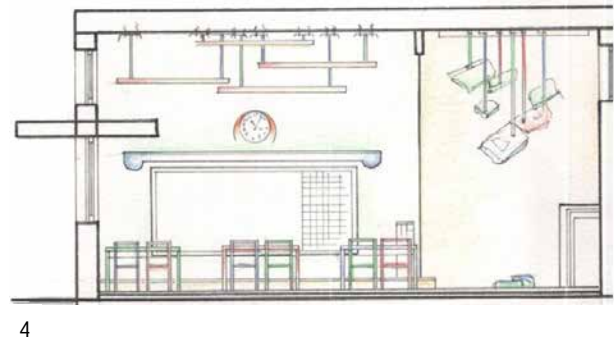
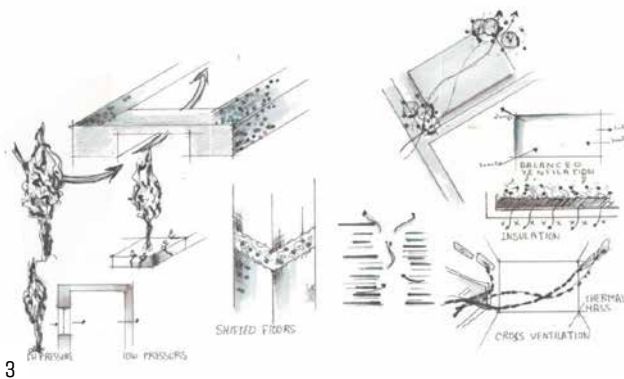
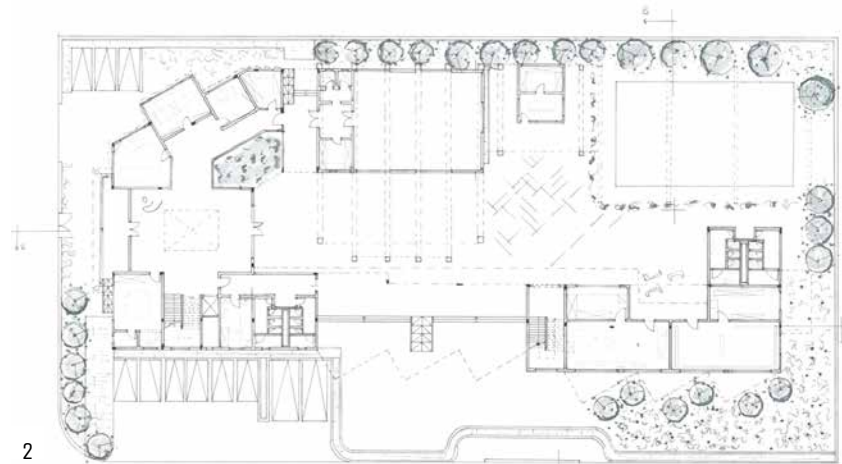
#### Instructors

Dr. Baher Farahat

Dr. Sawsan Saridar

Dr. Massimiliano Gotti Porcinari

Dr. Rania El-Messeidy



# YOUTH HOSTEL

## STAGE 02

**Architectural Design II**  
**[Arch 292]**  
 Spring 2015 – 2016

**Alisar Faraj**  
 Jnah – Beirut  
 6 weeks

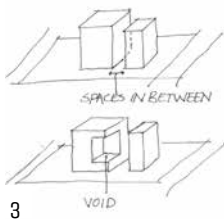
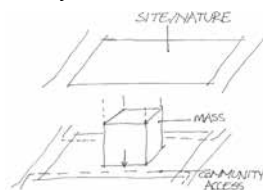
### Instructors

Dr. Baher Farhat  
 Dr. Sawsan Saridar  
 Dr. Massimiliano Gotti Porcinari  
 Dr. Rania El-Messeidy

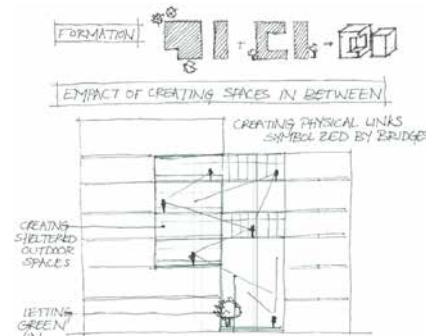
Defining space by dividing it into interior and exterior is one of the human ways to recognize position in space, and architecture is the response to this need. The inside spaces are meant to give some senses of identity and privacy for the youth. The project is a key part of Beirut, which by its nature, is a perfect place for a traveler to settle in for few days. This project will be the place where both users; locals and travelers, gather, meet, and share their needs.



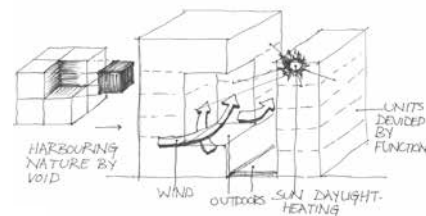
1



3



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4



5

(1) Ground floor plan (2) Spatial studies (3) Volumetric analysis (4) Environmental studies (5) Perspective sketch







# EXPO CENTER OF TECHNOLOGY

## STAGE 03

### Architectural Design III [Arch 331]

Fall 2015 – 2016

#### Ghaidaa Badih

Dbayeh – Lebanon

7 weeks

#### Instructors

Dr. Marwan Halabi

Dr. Chadi Khoury

Dr. Maged Youssef

As a way to recognize the importance of technology and its development, time could be the most important concept in the technological land. Technological development has started simple yet complex, ending up now to be a complex yet simple entity. For the eye of the viewer, technology is simple, used for different social/cultural/business reasons. All these parameters created a simple rectangular shape to be the starting point of the project. With a remarkable wide span structure, a universal space was covered giving possibility of multifunction.



2

# EVENT HALL

## STAGE 03

### Architectural Design III [Arch 331]

Fall 2015 – 2016

**Omar Naamani**

Debbieh – Lebanon

7 weeks

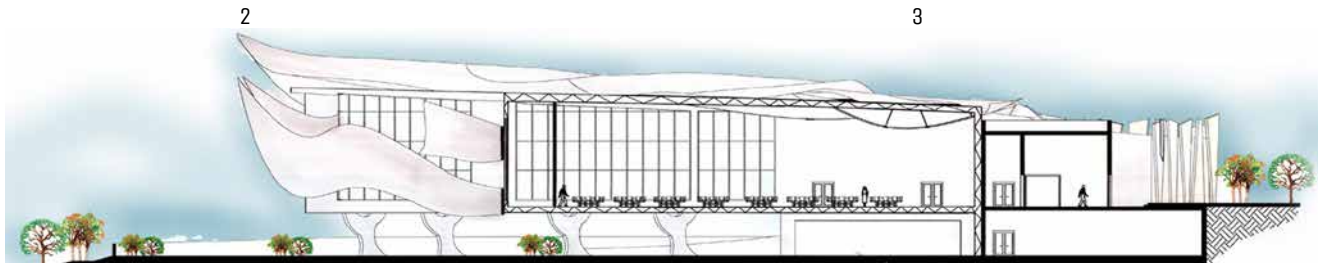
#### Instructors

Dr. Marwan Halabi

Dr. Chadi Khoury

Dr. Maged Youssef

One of the main aims was listening to the land. Not by the means of sounds of nature, but understanding what the land might accept as a volume. This may be shown through the footprint, location, and position of the building. The plan process was remarkably observed through the change of the mass units' distribution in the site. Setting firstly the visual approach to a clear entry through an extruded form holding a separated concrete frame to visualize the direction to the entry zone. Gathering people in one space under a deconstructed cover reflected diversity, variety, and meeting the non-familials together in one space.



(1) Top view (2) Perspective shot (3) Ground floor plan (4) Section

# RESIDENTIAL COMPOUND

## STAGE 03

### Architectural Design IV [Arch 332]

Spring 2015 – 2016

#### Toufik Hayek

Al Jiyeh – Lebanon

7 weeks

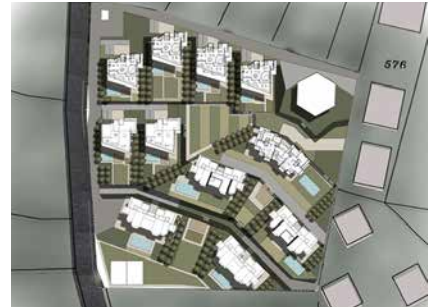
#### Instructors

Dr. Marwan Halabi

Dr. Chadi Khoury

Dr. Maged Youssef

The aim of this project is to design a residential compound based on the layout of the ancient Roman cities (considering the Roman civilization that passed through Lebanese history). A regular grid was taken from the layout of the first Roman cities that appeared, and from another grid based on the star shape. The two grids were combined to give two types of unit arrangement dividing the site into three main parts, the villas zone, the apartments, and the citadel like social club for gathering activities inside the compound.



1



2



3



# PUBLIC PARK

## STAGE 03

**Architectural Design IV**  
**[Arch 332]**  
Spring 2015 – 2016

**Jad Sawan**  
Saida – Lebanon  
7 weeks

**Instructors**  
Dr. Marwan Halabi  
Dr. Chadi Khoury  
Dr. Maged Youssef

In order to understand the service that our park will offer to the neighboring society first we need to study the history of this area. War has a very intimate relation with the history of Saida and Lebanon in general. Since the time of war, our families, society, and cities have been fragmented. The park is inspired by war fragments to bring back the people of Saida together. The park contains two axes; the first is visualizing the Old Saida and the castle, while the second is directed towards the Mediterranean Sea symbolizing the anticipation of the future to come.

### **Magnetic Pavilion**

The park contains 7 different pavilions. Each one has a particular shape and each one is in an honor of a different agonizing memory.



1



2

(1) Top view (2) Perspective shot

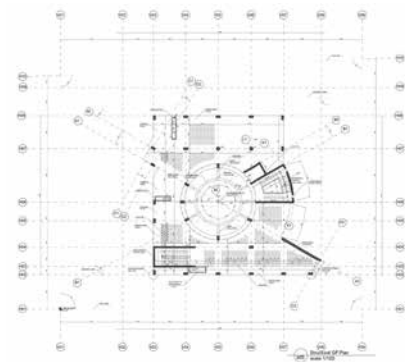
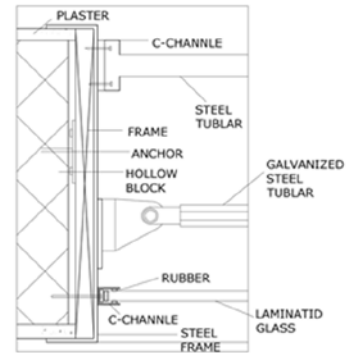
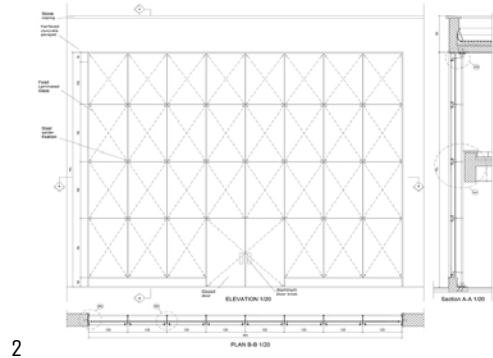
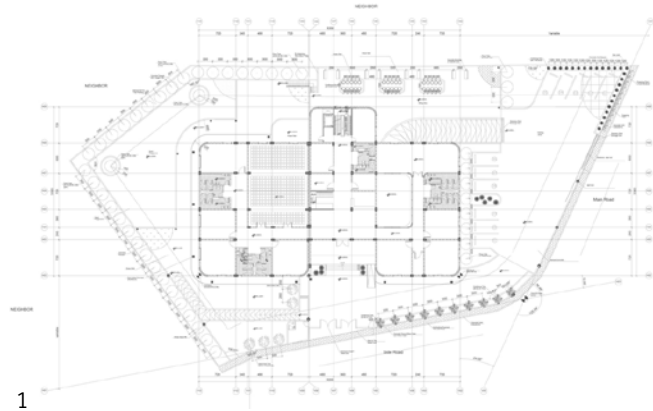
# SELECTED EXERCISES

## STAGE 03

Execution Design I & II  
[Arch 333 – Arch 334]  
Fall/Spring 2015 – 2016

Ahmad Baalbaky  
Noura Madi  
Omar Naamani  
30 Weeks

Instructors  
Dr. Maged Youssef  
Mr. Rabie Shbaro



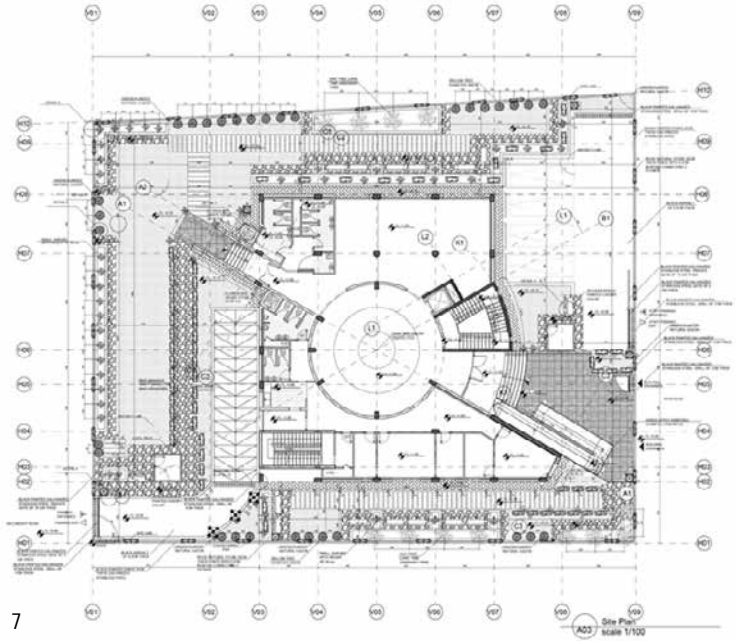
(1) Site plan (2) Curtain wall (3) Skylight detail 1 (4) Structural plan (5) Section A-A (6) Elevation (7) Site plan (8) Skylight detail 2  
(9) Wall sections (10) Skylight detail 3 (11) Skylight detail 4



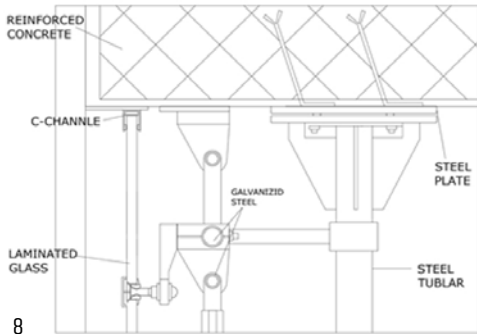
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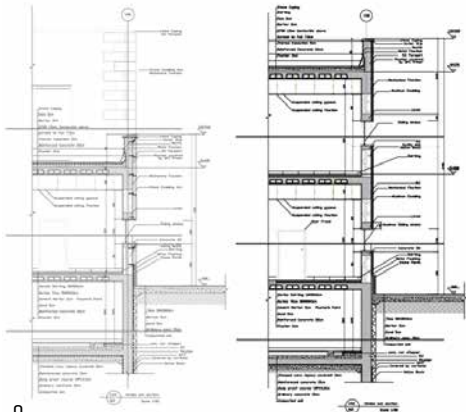
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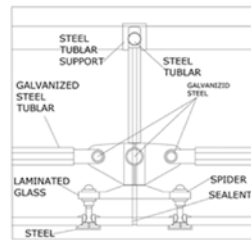
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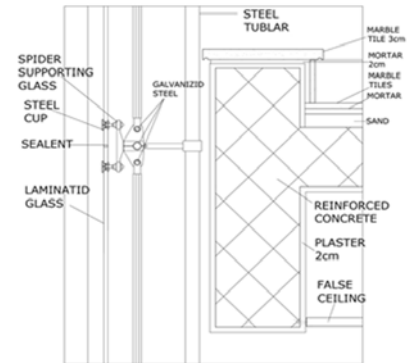
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9



10



11

# COMPLETING THE CAPITOL MUSEUM OF KNOWLEDGE

## STAGE 04

### Architectural Design V [Arch 431]

Fall 2015 – 2016

**Bahaa El Dine**

**About Khoudoud**

Chandigarh – India

8 weeks

#### Instructors

Prof. Ayman Afify

Dr. Mohamad Yassine

Dr. Rania El El-Messeidy

#### Overview

International Competition: Chandigarh Unbuilt Completing the Capitol, Chandigarh Capitol is a complex designed by the Modernism Pioneer architect Le Corbusier and located in Chandigarh, India. The Capitol Complex comprises three buildings – Legislative Assembly, Secretariat, and High Court. The last piece of the Capitol, The Museum of Knowledge, was left unbuilt therefore this competition was organized to Complete the capitol.

#### The Journey of Knowledge

Our senses are what connect us to everything around us, the five senses refer to the five traditionally recognized methods of perception, or sense: hearing, sight, touch, smell, and taste. They provide us with a path free to be traveled or rejected. Throughout this project the five senses will be stimulated in a way to make us ready to capture any sort of knowledge, therefore the visitor will be fully stirred to any sort of knowledge.

#### Design guidelines

- Certain characteristics in Le Corbusier's architectural work had never been changed: the modular system, use of golden ratio, the function, and the light importance.
- Emphasizing on axial approach to the Museum of Knowledge from the city center.

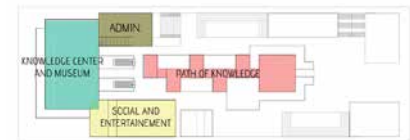
The pathway main purpose is to provide a transition between the knowledge center



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and the capitol complex preparing our senses to the center of the project which is the knowledge center. This knowledge will be similar to a storyline path that passes through our five senses which are represented architecturally by the five concrete capsules located in the axial passage leading to the main entrance of this project.

- (1) Bird-eye view looking toward the path of knowledge (2) Project top view showing the golden ratio relations (3) General zoning (4) Bird-eye view showing the path of knowledge entrance (5) The storyline of the project (6) Longitudinal Section

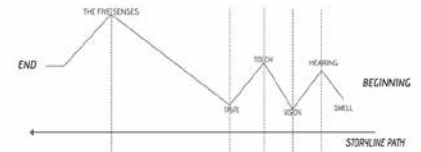




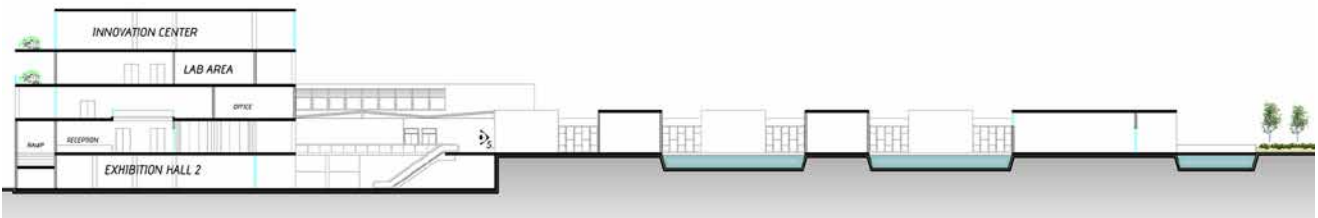
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Each of this concrete block will host a sense, through different techniques ranging from the simplest way which is its texture, to the state of the art digital space found inside. The ending of this passage will be the reception hall that leads to the ground level of the main

component of the project which is the Museum exhibition halls. The main building will superpose those senses represented by five concrete floors which are shifted using the same module of Le Corbusier in his design of the Capitol Complex.



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# CULTURAL & TRADE CENTER

## STAGE 04

### Architectural Design VI [Arch 432]

Spring 2015 – 2016

#### Mariam Itani

Saida – Lebanon

15 weeks

#### Instructors

Prof. Ayman Afify

Prof. Mohamad Fikri

Dr. Mohamad Yassine

Ms. Ana Serrano

#### Overview

The project presents unconventional interventions in the urban pattern of Saida while respecting its rich background. Its main objective is understanding the culture and history of the place and adapting to a unique architectural configuration where the project is linked to its surroundings creating a continuously intertwined urban fabric. It is an inquiry of Saida's exceptional history layers overlapping over years from continuous alterations and additions. These interventions enable locals inside Old Saida's fabric to have direct access to the Mediterranean Sea through the project.

The pathways between the project and the sea serve the following functions:

- A linkage between the dense architectural fabric and the Mediterranean Sea.
- A safe way is ensured for pedestrians to cross the highway without risking accidents.

- An access of natural lighting and a ventilation from the exterior into the underground tunnel through specific openings in the ground.

#### Conceptual Approach

The linkage was achieved by creating four main axes inside the project two-dimensional lines extending from the project into the old city of Saida and, on the other hand, creating a continuous link between the city and the Mediterranean Sea. The only block between Old Saida and the sea, the highway, was cut from both sides and redirected into an underground tunnel creating a clear and safe way for pedestrians to cross from the dense fabric of Saida, into the project and then to the Mediterranean coast. This was done by linking the three elements with pathways and alleys which give a sense of the original Old Saida and creates a city-like feeling in between the buildings.



(1) Mass plan analysis of the four main axes creating physical continuity to Old Saida (2) 3D perspective (3) Analysis of the functional spaces of the project (4) Master plan (5) Analysis of urban context (6) Main elevation (7) Section (8) Freehand sketches





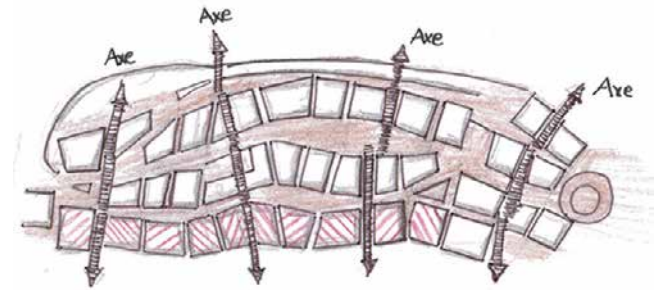
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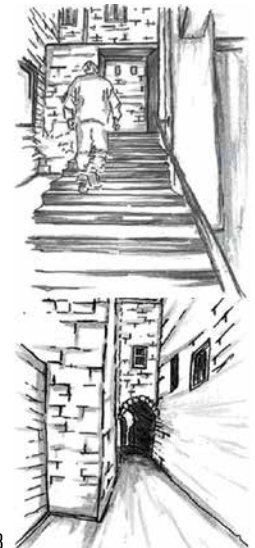
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# CULTURAL & TRADE CENTER

## STAGE 04

### Architectural Design VI [Arch 432]

Spring 2015 – 2016

#### Marwa Mohamad

Saida – Lebanon

15 weeks

#### Instructors

Prof. Ayman Afify

Prof. Mohamad Fikri

Dr. Mohamad Yassine

Ms. Ana Serrano

#### Overview

At the Northern limit of the Business Central District of Saida, lies a strategic land lot is fronting the city-central Nejme square which is currently used for car parking for central district and contemporary souk users. The objective of this project was to dig deeply through influential urban issues and prevailing aspects that call for attention among the trade, tourism, and culture sectors in Saida. The intended facility, thus, was expected to offer the most relevant first steps towards the cultural and economic development of the city.

#### Outcome

The ‘Wasleh’ Cultural & Trade Center is a modern social facility lying at the heart of Saida, linking its old and contemporary souks to the modernly developing side of the city. Fronting Nejme square, the city’s vibrant center, ‘Wasleh’ punctuates the daily experience of its citizens and welcomes visiting tourists with a series of magnificent experiences of incidental scenarios and remarkable conventions.

#### Conceptual Approach

It is noteworthy that the local city culture cannot be determined by common characteristics today. The population benefits from the different trade and cultural facilities scattered across the city, enforcing different functional behaviors. The center’s core value is in its primitive

function of housing multidisciplinary activities that bring people from the city along with prospective visitors to one place to conjointly contribute to the modern culture while learning from its traditional welcoming values. In the design solution, the functions of a mall and a street market are brought together with cultural facilities that bring citizens and tourists to common grounds while benefiting from the retail and entertainment zones.

#### Design within Context

The building form is designed in compliance with contextual height constraints, yet it is mainly shaped by the contextual approach and access conformity at the Ground Floor. The building is composed of a concrete form articulated with textured stone cladding. Additive anatomic elements shape the façade of the building and offer functional solutions.

#### Approach

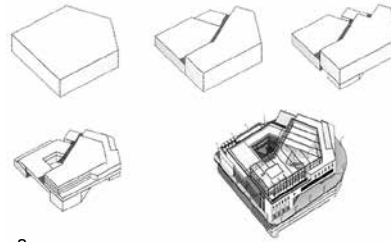
The main approach in the form – finding was to respond to the context with a well – fitting building that resulted in unexpected scenarios at different scales and corners. At a developed stage, more functional responses and structural articulation were brought to supplement the design.



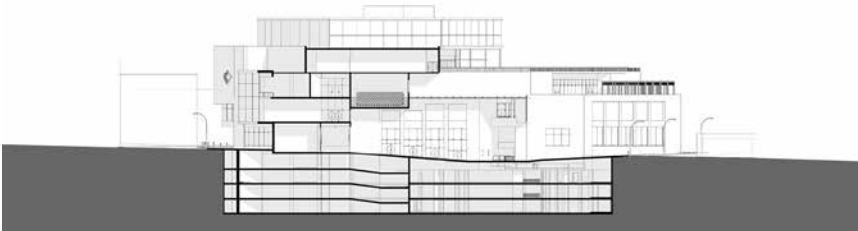
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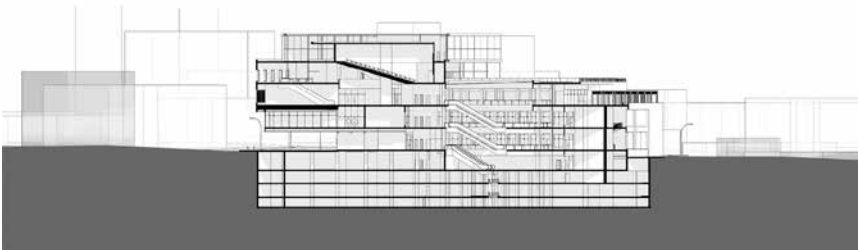
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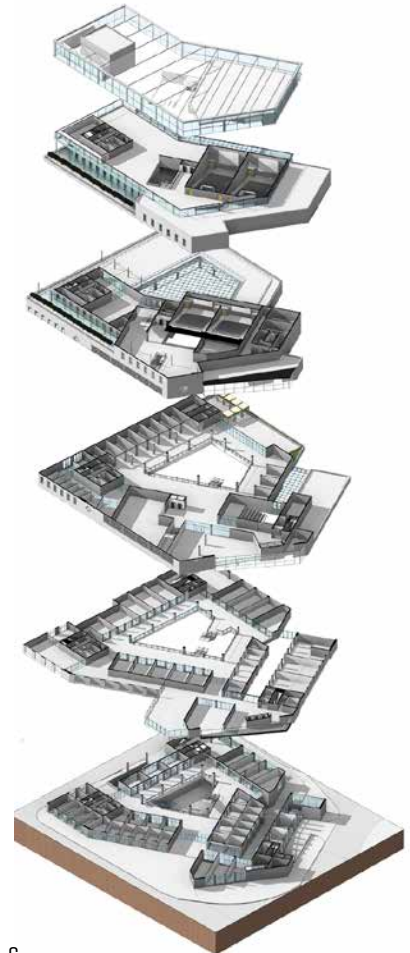
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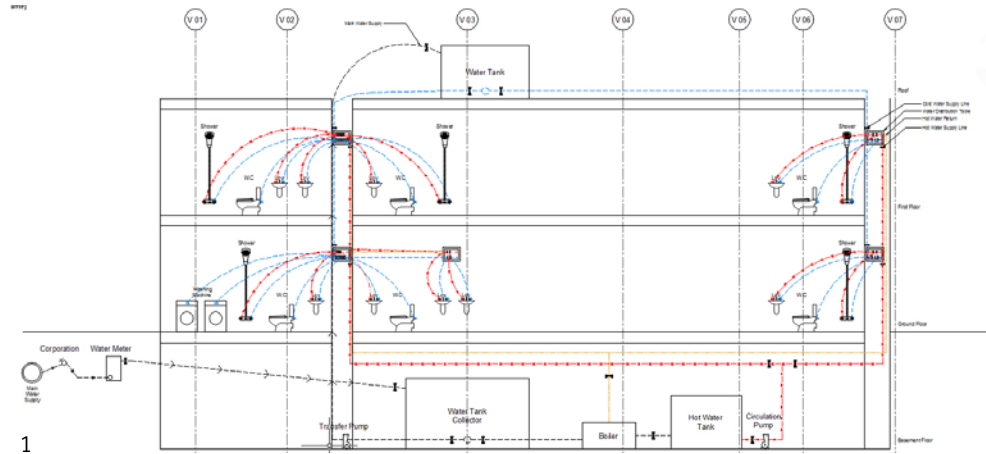
# SELECTED EXERCISES

## STAGE 04

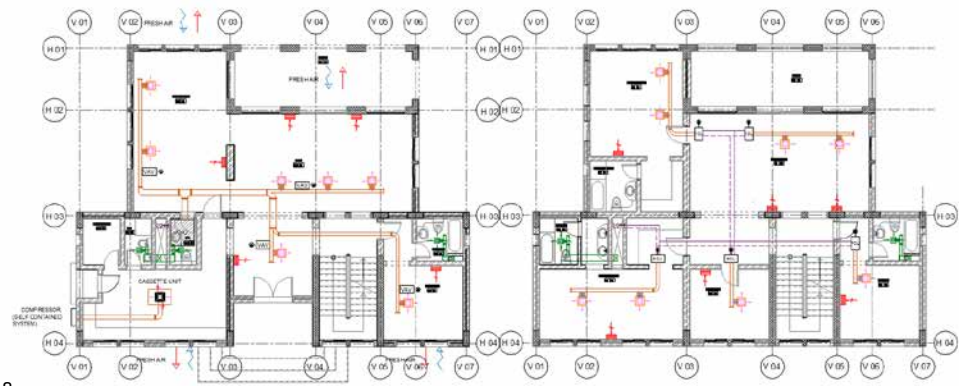
Execution III & IV  
[Arch 433 – 434]  
Fall/Spring 2015 – 2016

Bahaa Abou El Khoudoud  
Ali Salam Saleh  
30 weeks

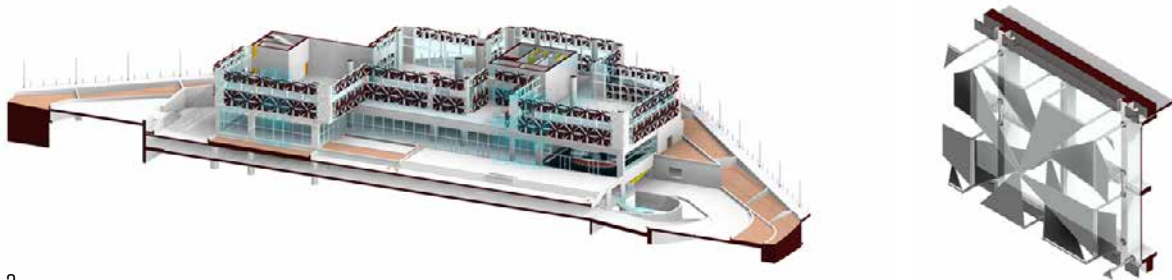
Instructors  
Dr. Wassim Bahr  
Mr. Abdul Razzak Balaa



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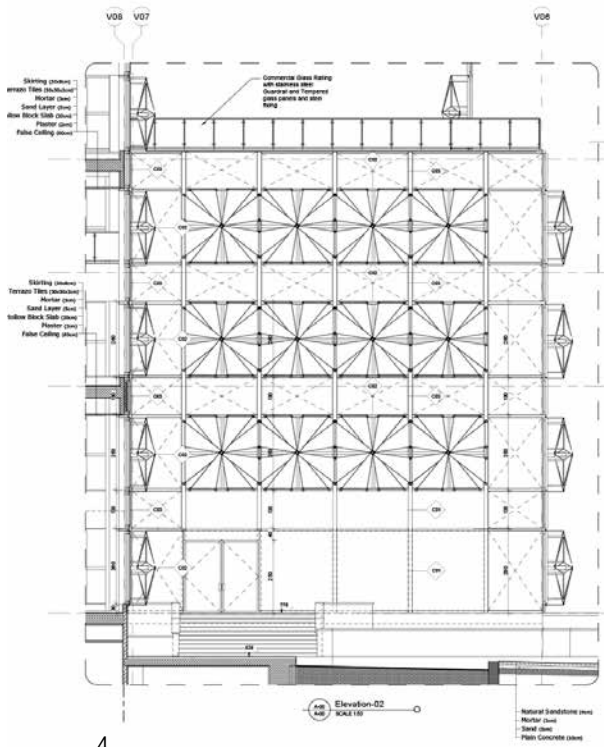


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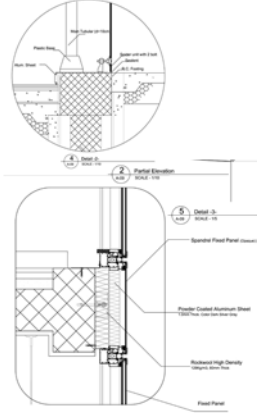
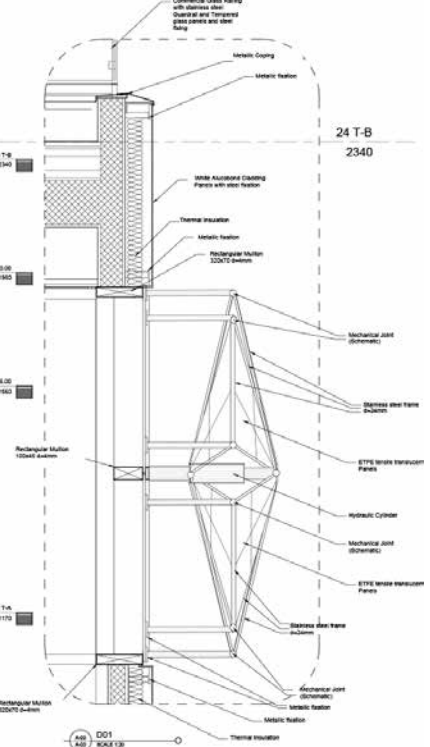


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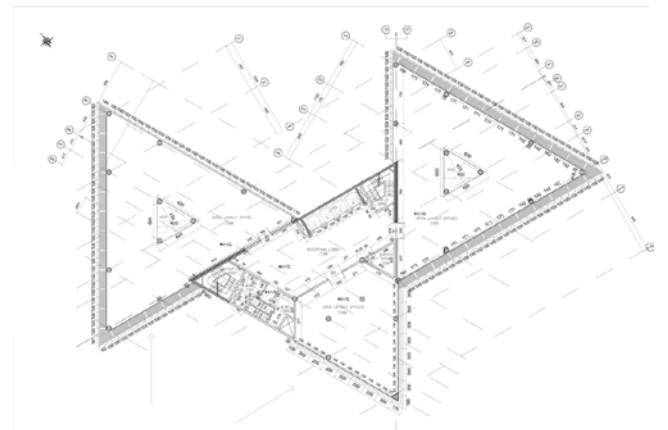
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# THE URBAN REDEVELOPMENT OF SOUR TOURISTIC GATE

## STAGE 05

### Architectural Design VII [Arch 537]

Fall 2015 – 2016

#### Rou'a Rawass

Sour – Lebanon

15 weeks

#### Instructors

Prof. Ibtihal El-Bastawissi

Dr. Hisham El-Arnaouty

Dr. Said Jazairi

Dr. Mohamed Saidi

#### About the project

The main target of the project was to create a healthy urban life in Sour; the coastal city in the south of Lebanon. A place where kids can play, teens can gather, and olds can meet easily and safely. The Project is a mixture of public spaces, divided between indoor and outdoor, that can welcome anyone at any time of the day and night. The promenade created throughout the waterfront is totally open to the project, connecting it directly to the sea from the north, without any vehicular barriers, and from the southern side, connecting the gate of the city to the historical one through pedestrian safe road.

#### Design Criteria

The proposal was based on several criteria:

1. Eliminating the vehicular street by the coastal line and connecting the site by one promenade platform to the sea.

2. Enlarging the backstreet on the southern side of the site making it handles two ways vehicular flows, double lane for each.
3. Creating a park connecting the old city to the sea, with no visual barriers.
4. Choosing to build all the needed facilities (crafts, coffee shops, restaurants, and touristic info center) in front of the new city, by low rise buildings connected through pedestrian paths and plaza.
5. Keeping the existing sea deck, but with some interventions making it useful for the city life.

Studies on the urban scale have been done on many levels: green spaces in the city, buildings and land uses, architectural phases and types of the region, in addition to many other criteria helping the creation of this design proposal.





# FILM FACTORY A NEW TYPOLOGY FOR FILM PRODUCTION

STAGE 05

**Senior Project**  
**[Arch 540]**

Spring 2015 – 2016

**Nemer Nabbouh**

Sin el Fil – Lebanon

16 weeks

**Instructors**

Prof. Ibtihal El-Bastawissi

Dr. Hisham El-Arnaouty

Dr. Said Jazairi

Dr. Mohamad Saidi

## Theme

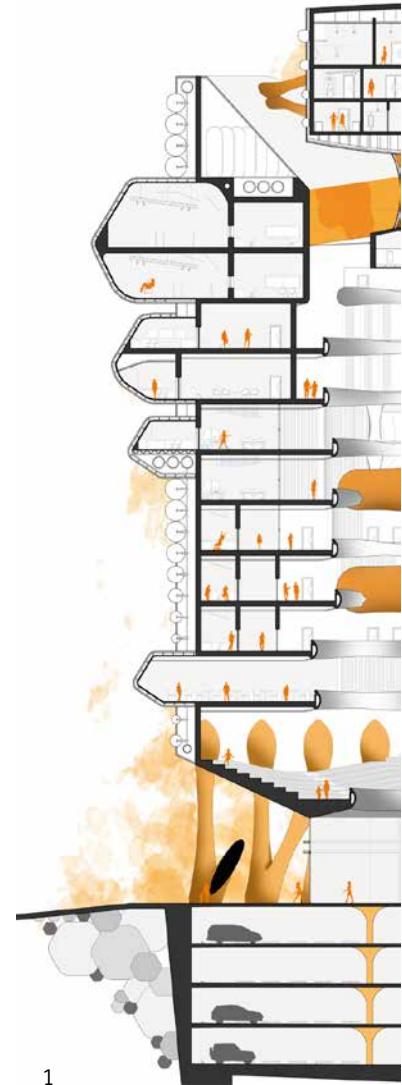
The invention of filming technology in the 19th century gave rise to the magic of cinema. It quickly captured the attention of the masses and expanded to become one of the biggest industries on the planet with the power to control populations. Even though it has passed through several eras, from the silent era, color, analog, and now the digital era. Facilities that were used for producing those artworks remained the same.

“Producing a movie? Let’s build a hangar where we can shoot all of our scenes”

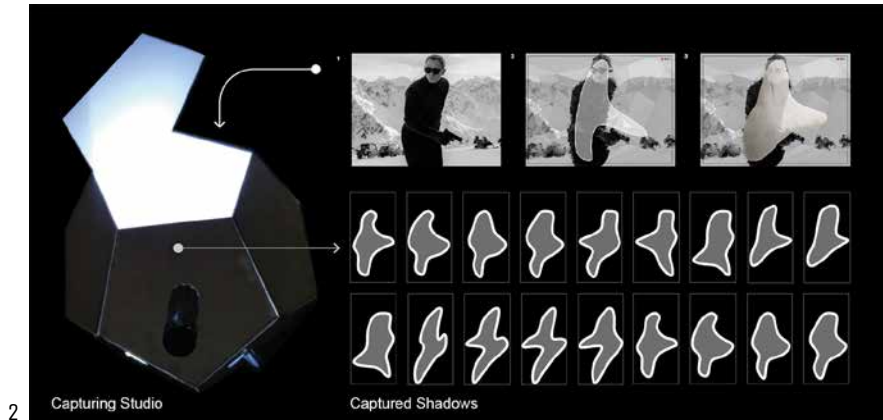
"Creating a movie, a commercial, a music video, a series, shooting a short film or rendering a motion graphic or an animation movie", all of these should become the point of attraction. A facility, an institute and a center, are the definition of this structure. A place that redefines the concept of a filming studio. This should serve not only directors and movie makers, but also students and media lovers. It will become the first center for the film industry in Lebanon.

## Genesis

The Civil War in Lebanon destroyed most of the Lebanese infrastructure and entertainment industry, Including the Lebanese cinema and film production industry.



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### Work flow

Phase 01. Famous movie scenes have been chosen, reduced to their simplest form to become test Subjects of the Shadow play.

Phase 02. A regular dodecahedron that would offer flexibility in the angles used to shoot the lights.

Phase 03. Experimenting phase – Now it is all about capturing the shadows and negatives of the interior environment.

Phase 04. Filtering out the unwanted or undesirable sections from the matrix.

### Details

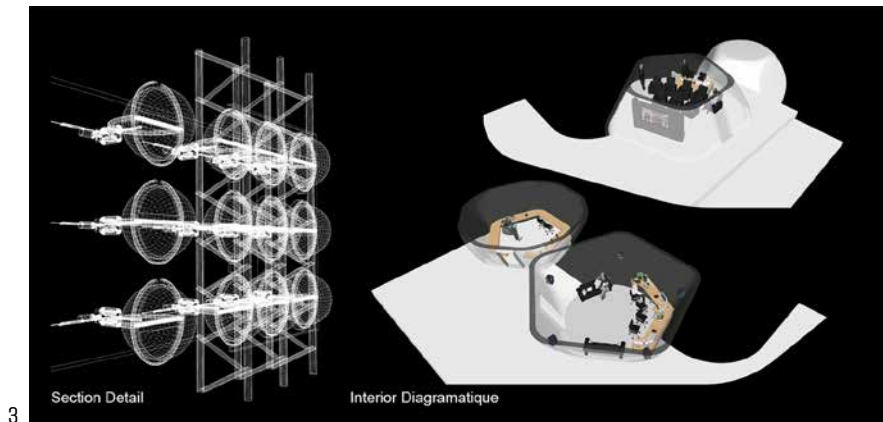
The four layered Façade acts as a media Façade at night for light shows and advertisements.

Layer one: ETFE inflated bulges reflecting sound.

Layer two: Photovoltaics enhanced by the ETFE trapment.

Layer three: LEDs diffused by the ETFE – part of the media Façade.

Layer four: Air Pumps that control the size of the ETFE to reduce noise.



The cellular formation on the exterior and interior however serves a completely different function. They form the core of the project as the creative spaces with all of the post-production studios and viewing areas. The shape resembles a geometric solution to the acoustics.

The entire “Factory” formation is a layer of functional and technical component designed to serve the users and producers along with designing them from the minds that create the artworks we see on the big screen.



# THE OTHERS

## STAGE 05

### Senior Project [Arch 540]

Spring 2015 – 2016

### Nour El Baba

Ain El Helwi Saida – Lebanon  
15 weeks

### Instructors

Prof. Ibtihal El-Bastawissi  
Dr. Hisham El-Arnaouty  
Dr. Said Jazairi  
Dr. Mohamad Al Saidi

### About the project

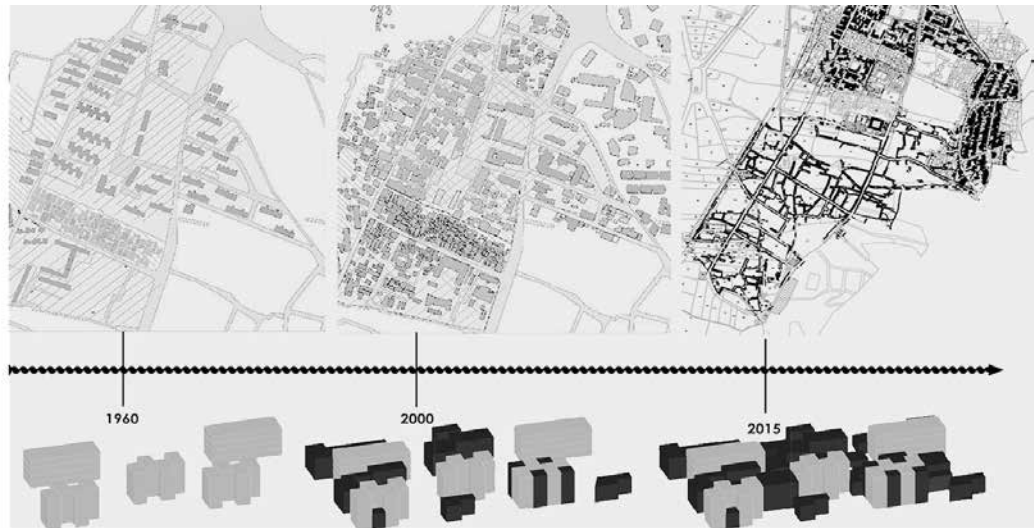
Refugees, Inhabitants in Ain El Helwi, were partially secluded from the outside community, SAIDA, “The others”, a nomenclature which describes how people perceive each other, few meters away from the borders will homogenize the community. The integration process is achieved by rehabilitation and adaptation of existing slums and thus creating a center that responds to the needs of the community.

### Concept development

Inspired by local urban fabric surrounding the site thus causing a clustered organization of small scale to complete the sense of place.

### The integration Process

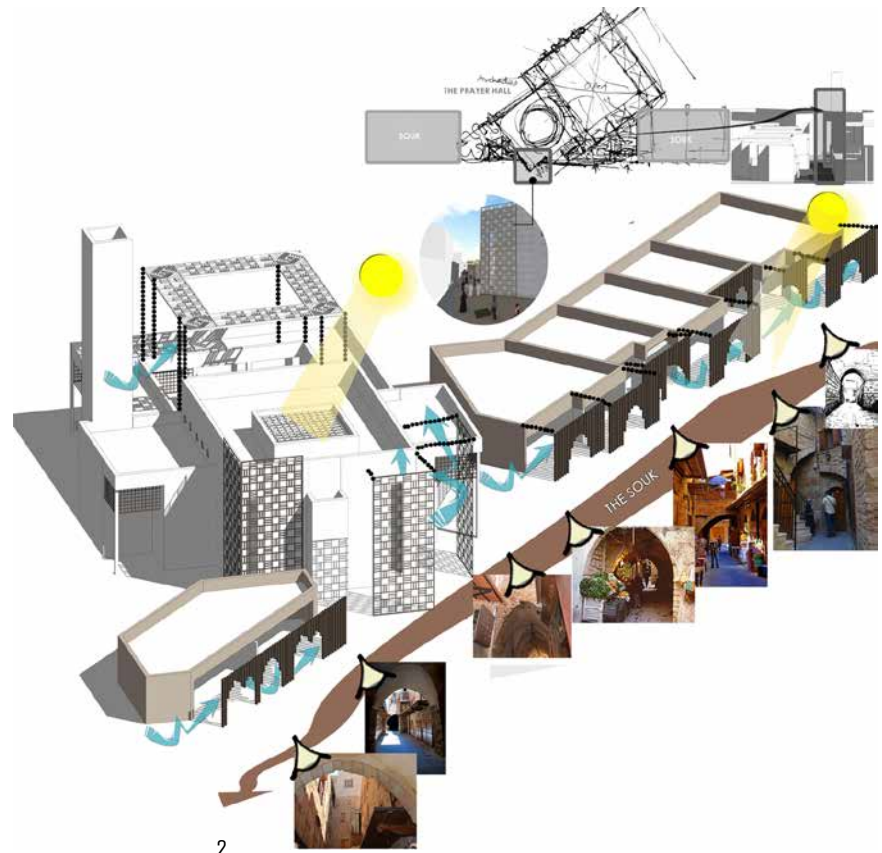
The souk and prayer hall with existing slums. The souk recalls the culture of the old city of Saida since the souk entrances an louvered Façade inspired by the urban fabric of the old city. The rehabilitation of the existing slums will recover the economic concern of the community; The populace will encompass a commercial unit. The prayer hall is directed to Qibla “Mecca” and integrated with the “souk” community used to consider the prayer hall as a religious place to gather. The integration of the prayer hall with the souk congregates people jointly. Double loaded souk: The addition of greenery revives the slum area in addition to the wooden pergolas that create a traditional ambiance and an integration between the community center and the slum area.



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The courtyard of the prayer hall is shaded by a pergola of a wooden pattern that connects with the culture. It is an abstraction of 'Mashrabeya' used in the old city of Saida. The integration of the wood material enhances a traditional theme of the community. The courtyard of the prayer hall could be used as an extension for praying in case of crowdedness. As well as the multipurpose hall had been directed to Qibla and simultaneously became used for consolations. As inhabitants amble in the double loaded souk, the community of Ain El Helwi recalls the history and the culture of the old city. The souk comprises architectural elements found in the old city of Saida.



# VARIOUS PROJECTS

STAGE 05

## Senior Project [Arch 540]

Spring 2015 – 2016

### Elias Zurub

Sayde Monastery – Lebanon

### Khalil Fakhoury

Oil Rig Resort – UAE

### Mohamad Tohme

Recycling Art Center – Lebanon

15 weeks

### Instructors

Prof. Ibtihal El-Bastawissi

Dr. Hisham El-Arnaouty

Dr. Said Jazairi

Dr. Mohamad Al Saidi

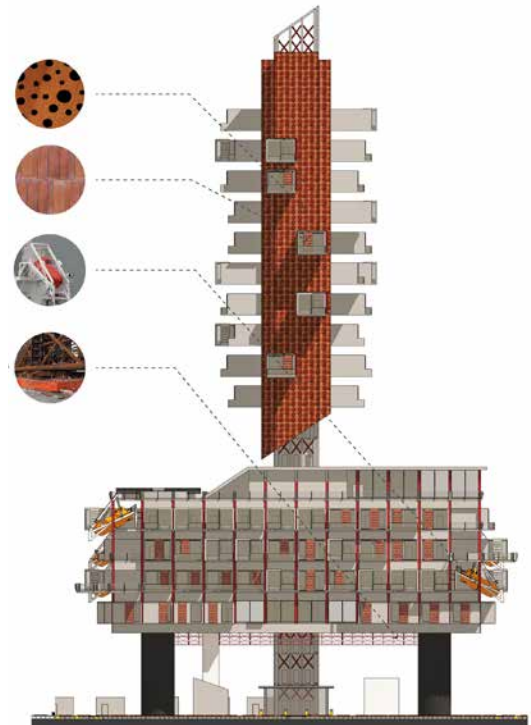
(1) Perspective: the monastery is dedicated to the monks who are newly embarking on their journey of Christian consecration. The concept is derived from the older Church architecture combined with sacred Christian rituals and elements such as the cross and the trinity.

(2) Section: exploring the possibilities of integrating architecture with naval design and renewable energy to further produce a prototype design capable of adapting and coexisting with the environment particularly with the marine ecosystem.

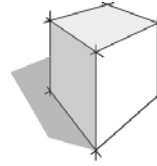
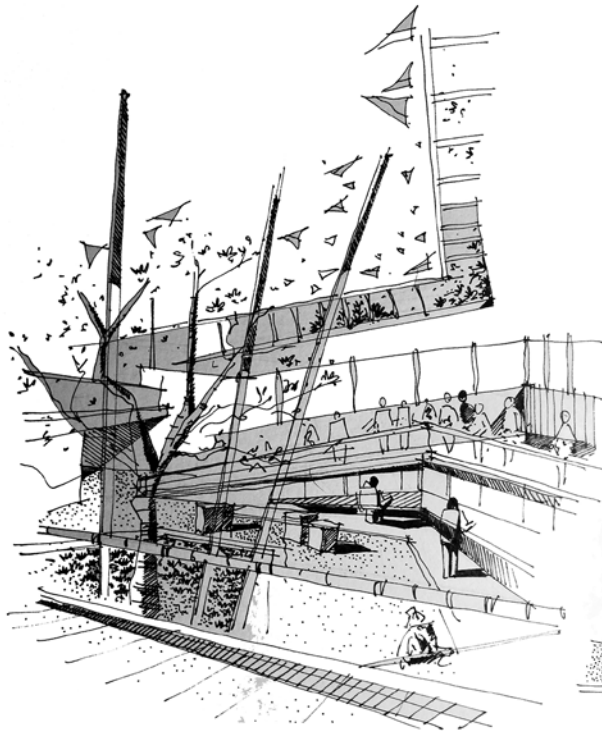
(3) Sketches: the goal the project is to activate cultural properties by evaluating architectural, historical, environmental, visual and aesthetic characteristics.



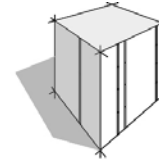
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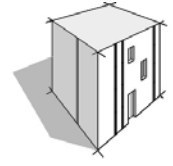
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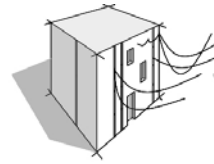
The house volume



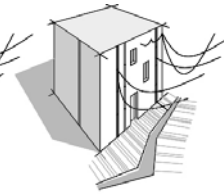
Drainage and vertical services



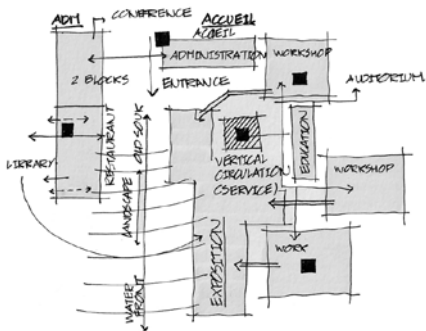
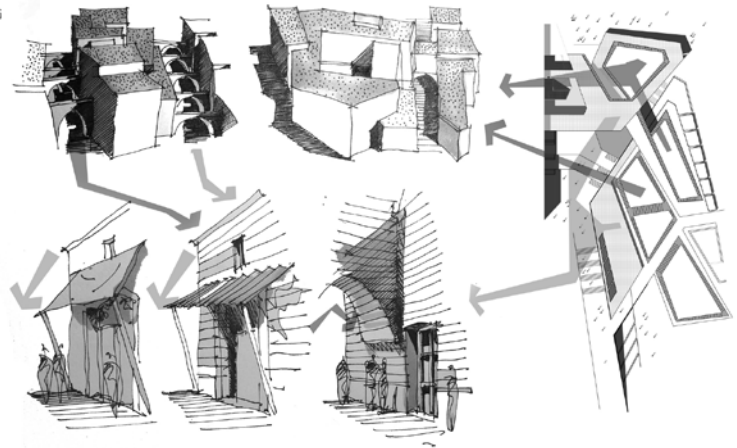
Openings



Electrical cables



Sloped paths



# METAMORPHOSIS OF TRASH: A DOWNWARD JOURNEY

## STAGE 06

### Advanced Design Studio 2 [Arch 632]

Spring 2015 – 2016

#### Salah Eddine Missi

Al-Naameh Landfill – Lebanon

15 weeks

#### Instructors

Prof. Ibtihal El-Bastawissi

Dr. Ashraf Mansour

Dr. Marwan Halabi

Dr. Hiba Mohsen

Ms. Ana Serrano

#### Concept

As it is well known, the basic human needs are food, water and air, what is definitive is that as long as there's life on this planet, waste will be produced. Waste is an accumulation of unwanted leftovers, which is, in most cases, a burden to every country. In Lebanon, the typical waste treatment is landfilling, which has recently caused a crisis in the city of Beirut due to the lack of the space at the landfills, and a political refusal of any alternative solution. The main purpose of this project is to find a disruptive solution to this ongoing crisis, through turning this curse into a blessing.

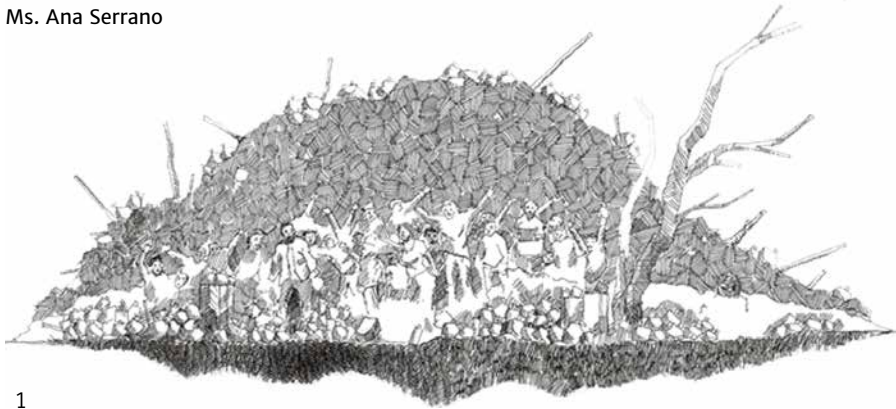
#### Design Brief

The Naameh landfill project was launched in 1997 after the closure of a landfill at the Normandy seafront in Beirut two years earlier. The Naameh landfill was set to operate for six years, a new landfill was to be established somewhere else. It

is a land of 290,000 sqm containing 15 million tons of garbage. Science Park is an organization managed by specialized professionals, whose main aim is to increase the wealth of its community by promoting the culture of innovation and the competitiveness of its associated business and knowledge-based institutions.

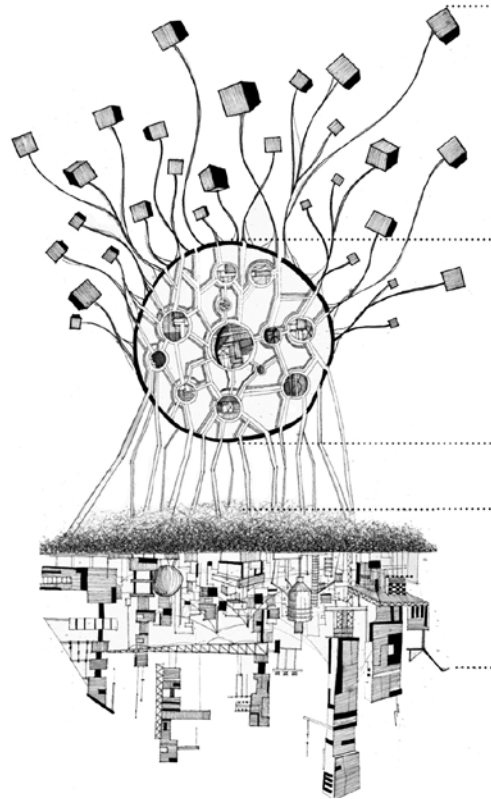
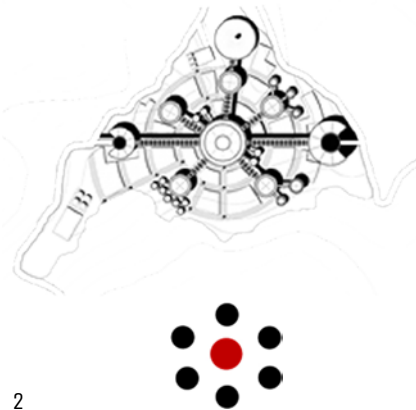
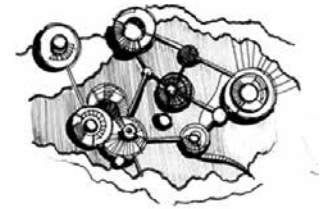
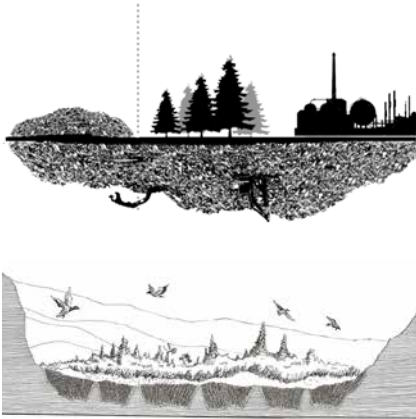
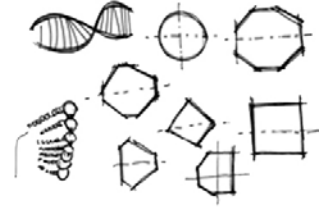
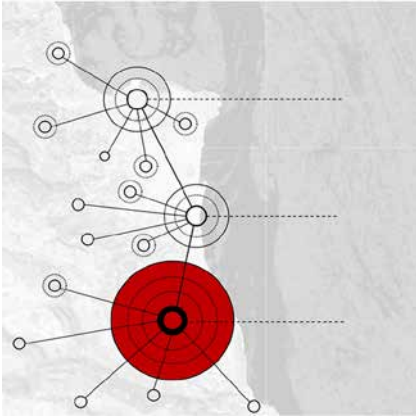
- Located in Mount Lebanon.
- About 15 km away from the Airport.
- About 25 km away from Saida.
- Area : 296000 sqm.
- 15 million tons of garbage.
- Maximum number of universities.
- Largest industrial area.

The benefit of garbage is producing electricity from Methane Gas by having a creative solution of an elevated projected above the ground. This is achieved by using special structural pilotis to hold different platforms in order to have maximum area of garbage for having more energy production that feeds the Science Park. Using internal private transportation moving through the different platforms in the project that may help in having more sustainable transportation solutions.

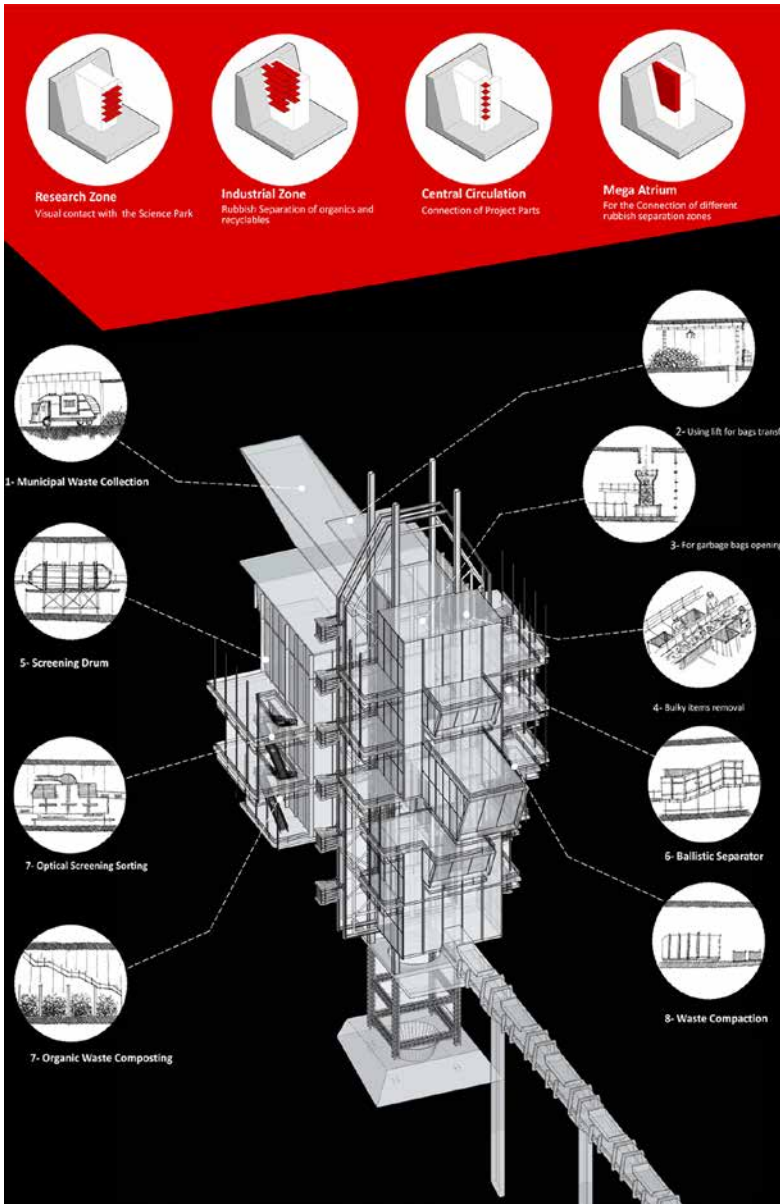


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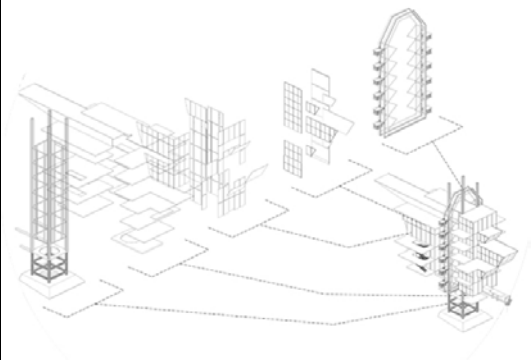




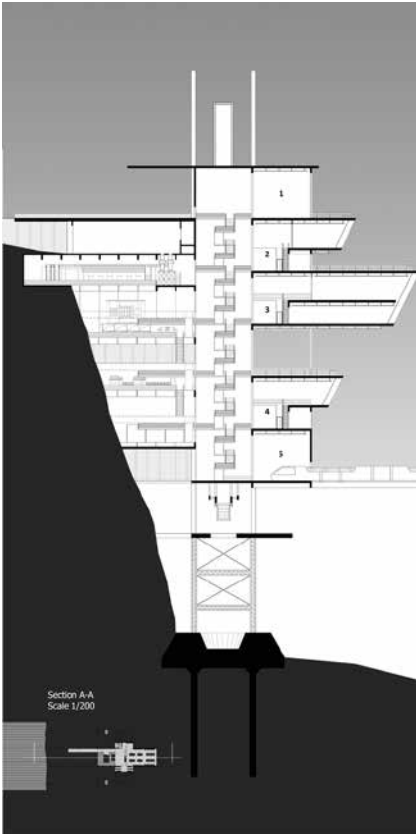
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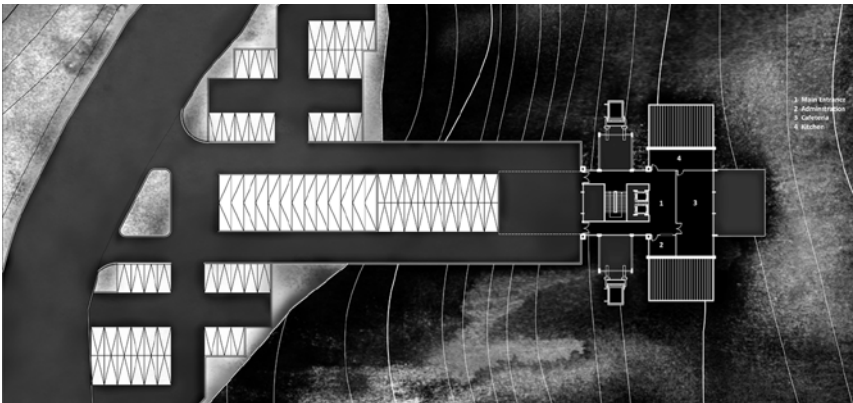
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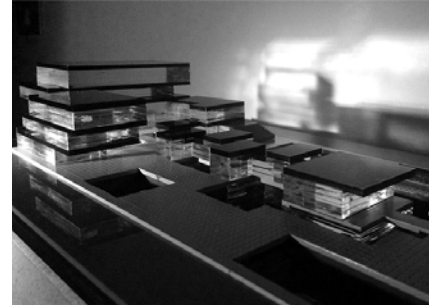
# EXTRACURRICULAR ACTIVITIES

## THE INTERNATIONAL COMPETITION: CHANDIGARH UNBUILT – MUSEUM OF KNOWLEDGE

Fall 2015 – India

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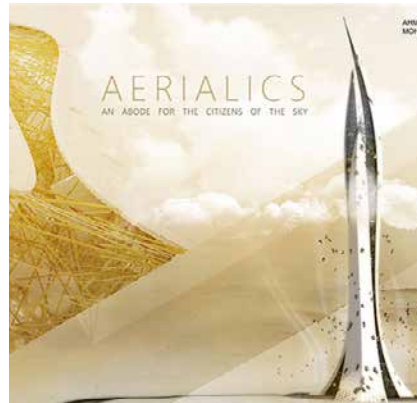
The aim was to design the Museum of Knowledge (MoK) in Chandigarh, then proposed MoK and Martyr's memorial in the Capitol Complex. The challenge was to redefine the purpose of a knowledge museum in the Chandigarh of 21st C and contemplating the relevance and importance of Le Corbusier's version of modern architecture in present time. Three students from the 4th level participated in this competition. Among more than 3000 international participants, Bahaa Aboul Khoudoud was awarded in the top 50.



## THE INTERNATIONAL COMPETITION: EVOLO 2016

Fall 2015 – Iraq

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EVOLO adopts the non-familiar design ideas for mega-structure buildings, particularly towers, calling all the participants to contribute with creative ideas using digital representations. The chosen site was in south of Iraq. The project targeted a design for a structure providing a shelter for the migrant birds flying annually from Siberia and Eastern Europe to Iraq. From different levels, six students (Ali Salam, Ahmad Mostafa, Mohammad Kheireddine, Rabih Itani, Nemer Nabbouh and Obaida Aoude) participated under the name Aerialics.

## THE INTERNATIONAL COMPETITION: ARCHIPRIX / AHMEDABAD 2017

Spring 2016 – Ahmedabad

Archiprix is an international biennial competition for the year 2016 targeting to design a new typology for film production that focuses on the new technologies and filming techniques. The fifth level student, Nemer Nabbouh participated under the title "Film Factory – New Typology for Film Production". Competition's results have not been announced yet.



## THE RIBA COMPETITION: NORMAN FOSTER TRAVELING SCHOLARSHIP

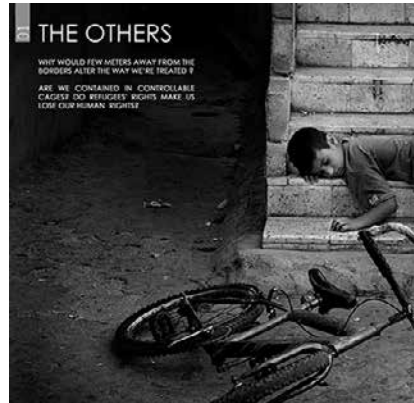
Spring 2016

This scholarship provides a chance for students to engage with architecture, outside the academic context. The fifth level student, Hadil El-Baba, who was a participant under the title “Ephemeral City”, chose the framework of interviews with people as well as the mapping of temporary constructions at specific periods of time.



## THE RIBA COMPETITION OF THE TOP100: PRESIDENT'S MEDALS AWARDS 2016

Spring 2016



The graduate students Nour El Baba and Nemer Nabbouh had participated with their graduation projects in the well-known RIBA competition, "The President's Medals Awards" which rewards students for their outstanding design-work with scholarships and prizes. Both participants got selected among the top 100 projects. (Photo showing 'The Others' by Nour El Baba).

## THE LOCAL COMPETITION: CHADIRJI AWARD

Spring 2016

The graduate students Salah Missi and Mohamad Ghassani participated in the annual local competition, Chadirji Award, hosted by The Order of Engineers in Beirut and Chadirji Foundation. Both students were rewarded for the design work on their graduation projects.





## THE REGIONAL ACADEMIC COMPETITION: THE JURY TOUR DAY

Fall 2015 – Jordan

The Jury Tour Day is an annual competition organized by the Architectural Forum Mediator in Amman. It is a forum discussing the students' design projects, particularly from the 3rd and 4th level from 15 Arab universities featuring Beirut Arab University & Birzeit University along with 13 Jordanian universities. The event also involved discussions and tours with participating architects. In the 6th jury

tour-day, two students from Beirut Arab University achieved the two first place ranks. Fourth level students Mohammad Al Hariri and Bahaa About Khoudoud were nominated to represent the Faculty of Architectural Engineering, presenting and discussing their design projects for “The Museum of Knowledge – Completing the Capitol Complex”.



## THE PHOTOGRAPHY EXHIBITION: THE ELEMENTS – MOTHER NATURE

Spring 2016 – Lebanon

Beirut Arab University organized a photography exhibition entitled “The Elements– Mother Nature” displaying the works of Dr. Mohamed Sobhy. Earth, Fire, Air and Water are elements merged with transparency and artistic skills that highlight intangible aesthetic details. The four elements appeared in all images, com-

binning the red flames of fire in its various stages of burning, diving into the depths of earth, towards flow of air and drops of water that reflect the colors of purity. Dr. Sobhy pointed out that the images were a translation of his own understanding of nature and an of his artistic ventures into nature and its elements.



# THE 1ST INTERNATIONAL CONFERENCE: RAE'2016; RETHINKING ARCHITECTURAL EDUCATION — TOWARDS A BETTER PRACTICE

March 2016

The faculty launched its first international conference on the field of architecture education; “Rethinking Architectural Education” with the honored attendance of Prof. David Glator, Director of Education of RIBA, and the esteemed presence of the Beirut Arab University President Prof. Amr Galal El-Adawi and the Dean of the Faculty of Architectural Engineering, Prof. Ibtihal El-Bastawissi, along with many other honorable guests of international and national significance. The conference included the opening of the RIBA media award gallery.





# THE RIBA EXHIBITION OF PRESIDENT'S MEDALS AWARDS 2016

Spring 2016

The President's Medals Awards targets superior students by rewarding them on their outstanding design work with scholarships and prizes by which the institution displayed the Bronze and Silver Medals. The winners receive their awards from the RIBA President at a ceremony at the RIBA in London in early December of each year. This coincides with the opening of an exhibition of entries that also tours throughout the UK and internationally. Under the cooperation between BAU and RIBA, the 100 design-projects-exhibition was held at the Faculty of Architectural Engineering at Beirut Arab University for the first time. It was launched with the opening ceremony of the first international conference RAE'2016.



## THE ART INSTALLATION: BEIRUT DESIGN WEEK

Spring 2016

In 2015 BAU hosted “Ephemera” a workshop led by the visiting Assistant Professor Anna Serrano to explore social rituals in the context of the Lebanese culture within a theoretical framework set up by French ethnographer Arnold Van Gennep. An interdisciplinary group formed by local specialists and architectural students designed three installations after

three months of seminars, design sessions and study tours. Ephemera 2016 was created as a second workshop to create two architectural installations celebrating the layers of two different sites in Beirut, exhibit the process, schemes and prototypes at BDW 2016 headquarters. (Photo showing the installation Lucent Memo-Random).



## THE PUBLIC LECTURE: UBIQUITOUS MATTER AND THE RESPONSIVE HABITAT

February 2016



Ms. Areti Markopoulou presented students' projects that were concerned with material intelligence and interactive technologies, together with sensors, actuators, and bio-mimetic and digital

manufacturing innovations. Her lecture provided examples of revolutionary ideas on growth, adaptability, repair and energy savings in architecture.



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## THE PUBLIC LECTURE: INSIGHT INTO MY ART WORKS — A SMALL INTRODUCTION IN PICTURES

February 2016

The Swiss artist Mr. Mirko Baselgia is one of the most prominent young artists in contemporary art. He completed an architecture apprenticeship, specialized in building construction and structural engineering and continued his educational

path with Bachelor and master degrees in Fine Arts from the Zürich University of the Arts. His lecture was an insight about his art work, beginning a brief introduction and later showed pictures about his latest work and exhibitions.





## TWO PUBLIC LECTURES: PERIPHERAL URBANISMS / TRANSLATING ARCHITECTURE

February 2016

Prof. Felipe Hernández is the Co-Director of the M. Phil. in Architecture and Urban Studies at University of Cambridge. Felipe teaches architectural and Urban Design, while tutoring courses and seminars in "Theory and History of Architecture and Urbanism". The two lectures concentrated on the ways of upgrading the 'Marginal Settlements' in the developing countries, giving examples from Latin America.



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## THE PUBLIC LECTURE: BIM IN ENVIRONMENTAL DESIGN

April 2016

Dr. Rokia Raslan discussed in her lecture the use of BIM in architectural design practice, in particular the energy efficiency of buildings. The discussed topics stemmed from her ongoing research in the field and included the core concepts and structures of what defines BIM, data generation and sharing, the impact of its application on the design process and the inter-operability of BIM systems. Several case-studies in regards to its particular use in energy modeling and environmental design were presented within the wider scope of the use of computer modeling techniques.



# THE INTERNATIONAL FESTIVAL OF ARCHITECTURAL SCHOOLS

June 2016

Three senior students, (Khalil Fakhoury, Hadil El-Baba, and Nemer Nabbouh) took part in IFAS'2016; the International Festival of Architectural Schools that was hosted at Corinth under the patronage of its Mayor Mr. Pnevmatikos. This festival was an eight-day international workshop. It was a new medium to discuss architecture and urban design as

detectors of change and opportunities for urban settlements with valuable heritage and landscape. The workshop addressed issues related to the rehabilitation of old infrastructures with the new design of the crossing of the Canal and urban organization in the areas surrounding it. The aim was to experiment a new interpretation of the area.



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# THE OVERSEAS WORKSHOP & TRAVELING STUDIO: DIGITAL TOOLS AND ROBOTICS IN ARCHITECTURE

Fall 2015

“Digital Tools and Robotics” workshop was a valuable opportunity for 68 students from the Faculty of Architectural Engineering, Beirut Arab University, mentored by six tutors led by Dr. Marwan Halabi, to explore the latest trends in architecture and technology. The Faculty of Architecture at the University of Porto hosted the workshop. The next stop was Barcelona where students experienced advanced technologies in built architecture.



## THE OVERSEAS SUMMER SCHOOL: LOW CARBON ARCHITECTURE SUMMER PROGRAMME

Summer 2015

Emphasizing on the important role of the internship, the Faculty of Architectural Engineering sent another group to participate in LACSP; Low Carbon Architecture Summer Programme, as a forum of an international internship, being mentored by three supervisors, Prof. Ayman Afify, Dr. Maged Youssef, and Ms. Hiba Mohsen. This two weeks trip brought together undergraduates and graduates from different international schools of architecture from all around world. This summer school concentrated on experiencing how to design an architectural model with the low carbon principles, using the Simulation Laboratory: the Sky-Dome. LCASP engaged staff and students in interactive and inspiring seminars lectures and projects, besides

field trips and excursions to remarkable low carbon showcases and developments in the UK; such as St. Fagans Museum in Cardiff, B.R.E Innovation Park in Watfor, Eden Project in Cornwall, and Crystal Building in London.




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## THE OVERSEAS SUMMER SCHOOL: RENEWABLE ENERGY – ARCHITECTURE, TECHNOLOGY & SUSTAINABILITY

Summer 2015

In recognition for the importance of multi-cultural engagement, students from the Faculty of Architectural Engineering at BAU took a part in the fifth annual international summer school that at Lincoln, being mentored by Dr. Osama Omar on 14 days-trip. The Summer School had an interdisciplinary approach between Architecture and Engineering with a focus on renewable energy, technology sustainability and carbon management in the built environment. The two weeks school offered a unique cultural experience and delivered a combination of inspiring lectures, project work, and workshops. This Summer School included field-trips and visits to some of UK cities, such as London, Nottingham and York, in addition to sports, social and cultural events.



## THE ANNUAL PARTY: ARCHIWEEN – STUDENTS ACTIVITY DEPARTMENT

Fall 2015

The annual greeting party for first year students under the theme Archiween held plenty of competitions among all students including designing the best architectural Halloween costumes and the first place winners were given valuable prizes.



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## LAUNCHING TED-X CLUB – STUDENTS ACTIVITY DEPARTMENT

Fall 2015

The TEDx BAU Debbieh team launched its club assembly at the Faculty of Architectural Engineering, TEDx BAU Debbieh team which prepared for their first TEDx event (TEDx BAU Debbieh Event V.1).



## THE REGIONAL WORKSHOP: DEBATE TO ACTION – COMMUNICATIONS AND LEADERSHIP PROGRAM

Spring 2016

Organized by the Jordan Media Institute, this program was the first of its kind backed by a far-reaching institutional partnership providing a platform for Arab youth leaders to engage with senior leaders and European peers. It was also the first time alumni jointly participated from “Young Arab Voices” and “NET-MED Youth”, two of the region’s flagship youth programs providing opportunities, tools, and capacity building for youth in the region. The program combined innovative methodologies to support the participants to work together in a fresh and exciting way, with a focus on tackling a common challenge relevant to societies from the south and north of the Mediterranean Region. The program aimed at helping participants to grow as future leaders.




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## THE OPEN HOUSE

Spring 2016

The 1st Open House was held under the patronage of the BAU President Prof. Amr Galal El-Adawi, aiming at introducing visitors to the graduate and postgraduate programs offered at BAU. The faculty's presentation started with its vision in fostering the Challenging-learning environment and lead advances in architectural education. It covered various topics including the History of postgraduate programs, Physical Resources and Facilities, the international Accreditation from the RIBA (the 5-year Bachelor program in Architectural Engineering award for RIBA Part 1) and the Postgraduate programs offered (M. Arch, MSc. and PHD).





**"Architecture is an expression of values"**

Norman Foster

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