



The Hashemite University - Department of Architecture  
Architectural Design V - Fall 2018

Project: Twin Tower Specialized Hospital

St. Name: Nancy AL Akhrass

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. I. Shqra



Design of a modern medium to high-rise multi-functional building in the urban context by using comprehensive design methodology including integrating design, building interior, function, circulation nodes, structural, environmental, and construction systems, services core, flow spaces, exterior envelopes, electro-mechanical systems and supporting services, materials selections, life-safety provisions, active/ passive energy systems, site planning, regulations, and principle of sustainability.



Concept 1: ( Response )

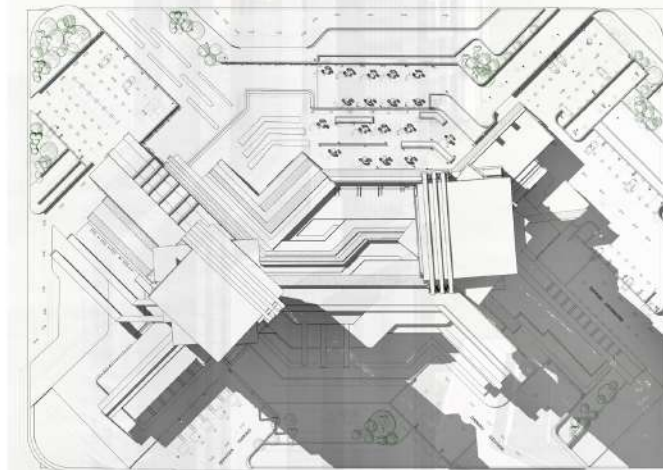
**What ?**  
The subconscious needs to transfer the cerebral effects that affect the human body in the form of electrical signals. From the electrical signals in the brain through the spinal cord through the nerves, and these signals call for the appropriate decision.

**How ?**  
The nervous system is an all-pervasive way. The brain sends signals to the rest of the body through a network of nerves. The signals travel through the spinal cord and then through the nerves to the rest of the body.

**Why ?**  
The patient's response is treated by type of disease and affect, in addition, it is similar to the response of the nervous system in any complex of work and dealing with the effect appropriately.

Labels: **BASIC LINES OF CONCEPT**, **INTERNAL CIRCULATION**, **FORMING AND INITIAL COMPOSITION**

**SITE PLAN**  
**SCALE 1:500**



Concept 2: ( Magnet )

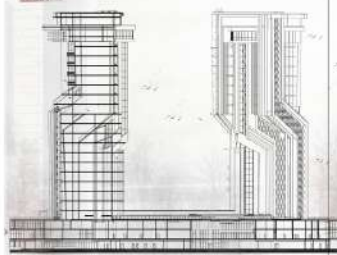
**What ?**  
The magnetic field lines formed by the attraction of particles close to the strength of the magnetic field in the center around which the lines are curved.

**How ?**  
The lines of the magnetic field that curve through the first point are a form of energy or the force coming out of all these points and forming a magnetic field.

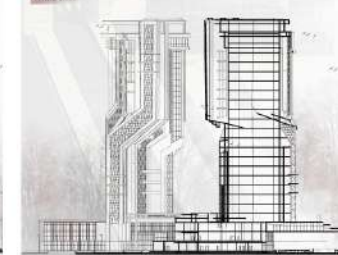
**Why ?**  
When the hospital has a number of operations in different fields, in fact, it is to attract the largest number of patients to give the appropriate treatment services.

Labels: **BASIC LINES OF CONCEPT**, **INTERNAL CIRCULATION**, **FORMING AND INITIAL COMPOSITION**

**SECTION A**  
**SCALE 1:500**



**SECTION A**  
**SCALE 1:500**



Concept 3: ( Continuity )

**What ?**  
DNA carries the characteristics of the organism on the chromosome to show qualities and distinctive qualities, and these codes are that distinguish the objects from each other.

**How ?**  
The human body is formed from complex genes. The genes carry the information on the chromosomes. The genes are the codes that distinguish the objects from each other.

**Why ?**  
This idea was taken by DNA, because DNA can give qualities, and the code in the DNA is the human body, because the long of genes hope and the continuity, and DNA is a code of human continuity.

Labels: **BASIC LINES OF CONCEPT**, **INTERNAL CIRCULATION**, **FORMING AND INITIAL COMPOSITION**



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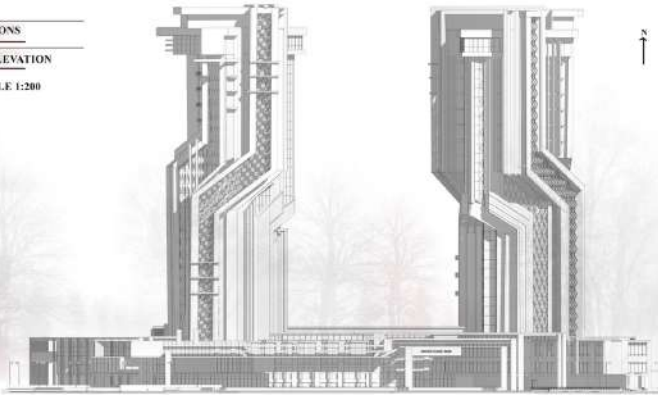


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ELEVATIONS

EAST ELEVATION

SCALE 1:200



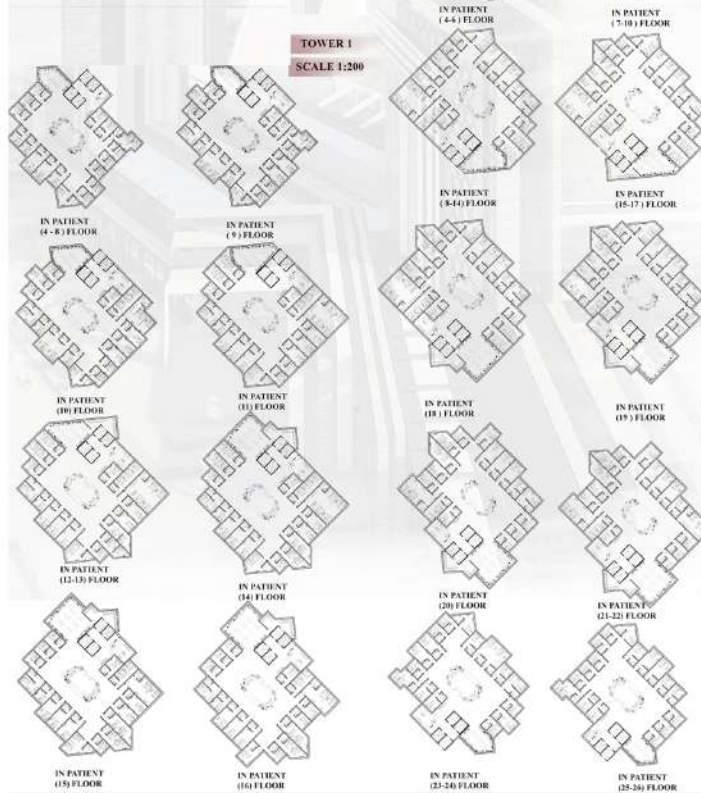
NORTH ELEVATION

SCALE 1:200



PLANS

TOWERS PLANS



PLANS

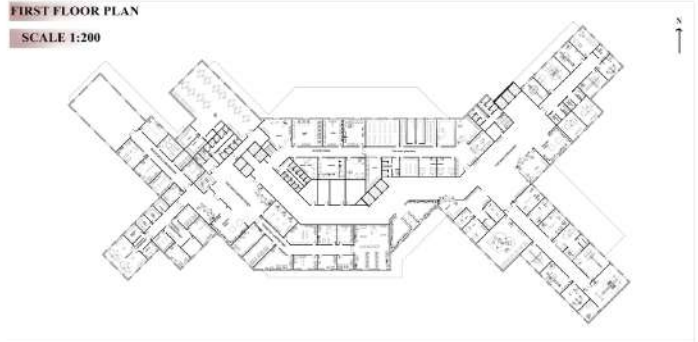
Master plan

SCALE 1:500



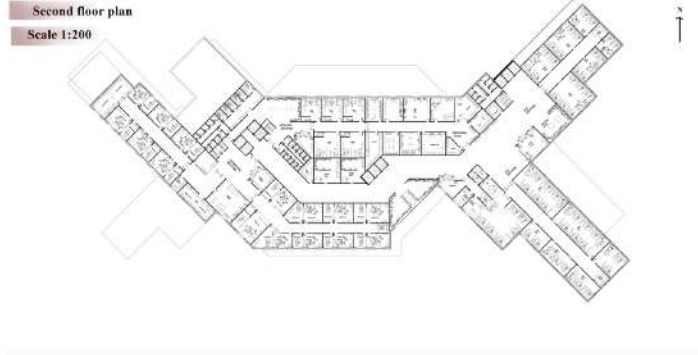
FIRST FLOOR PLAN

SCALE 1:200



Second floor plan

Scale 1:200





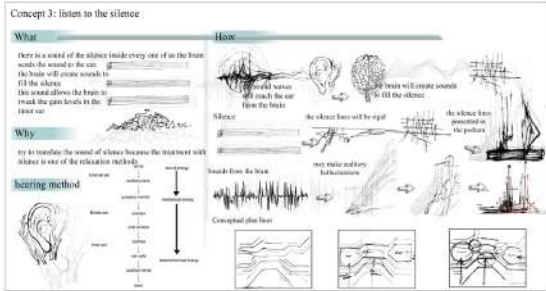
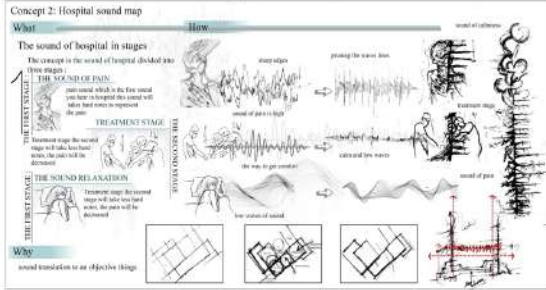
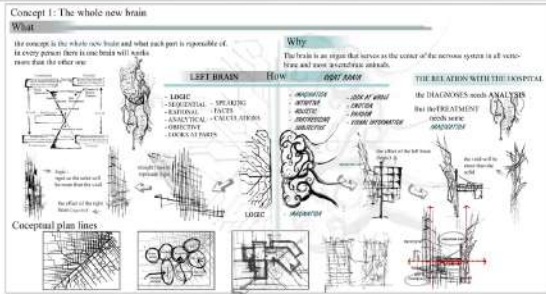
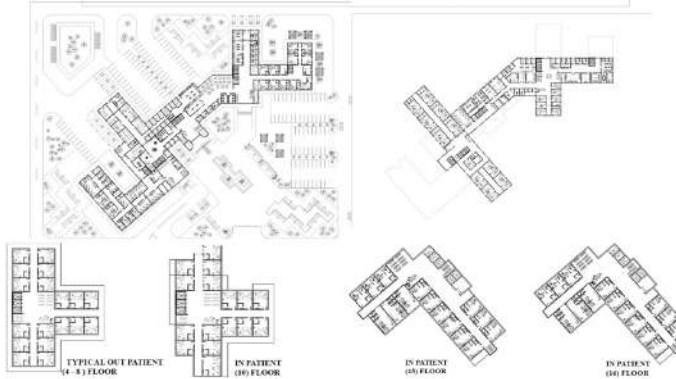
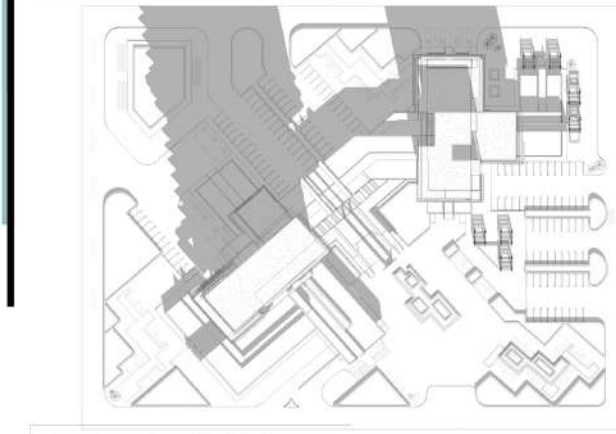
Project: Twin Tower Specialized Hospital

St. Name: Lara Samara

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra

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SITE PLAN





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Architectural Design V - Fall 2018

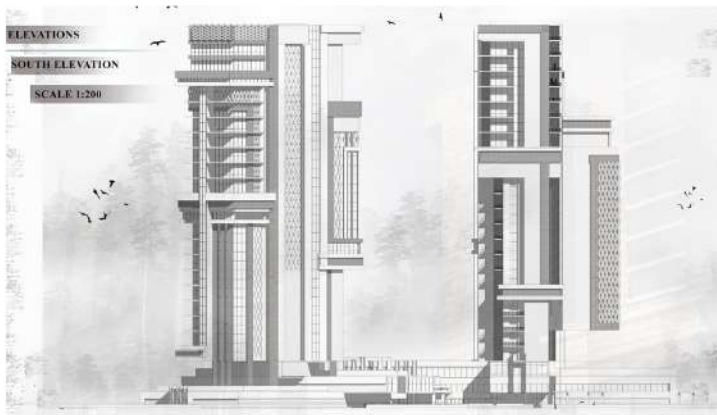
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St. Name: Lara Samara

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### TOWERS PLANS

#### TOWER 1



LEVEL 1-2



LEVEL 3-5



LEVEL 6-8



LEVEL 9-11



LEVEL 12-13



LEVEL 14-16



LEVEL 17-8



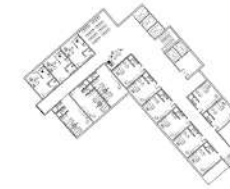
LEVEL 19



LEVEL 20

#### TOWER 2

SCALE 1:200



LEVEL 1-6



LEVEL 7-14



LEVEL 15-17



LEVEL 18-20

#### SECTIONS

##### SECTION A-A

SCALE 1:200





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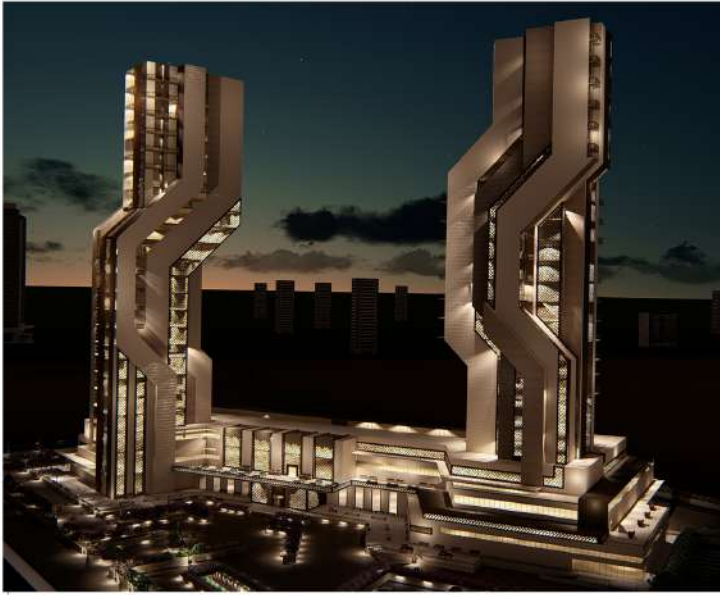
Project: Twin Tower Specialized Hospital

St. Name: Noor Jamaain

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



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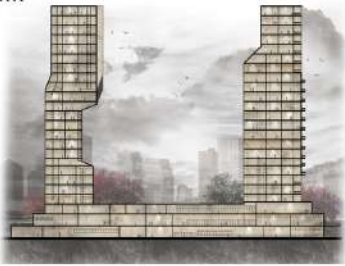
**SOUTH ELEVATION**  
SCALE 1:200



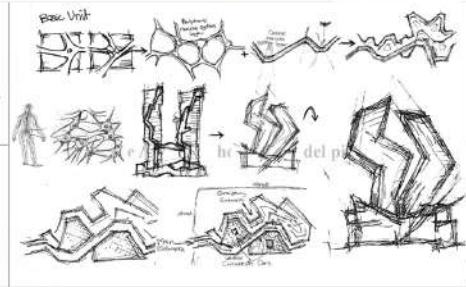
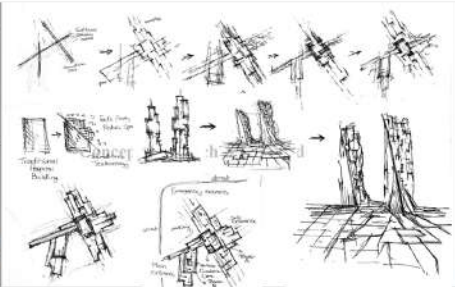
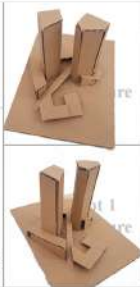
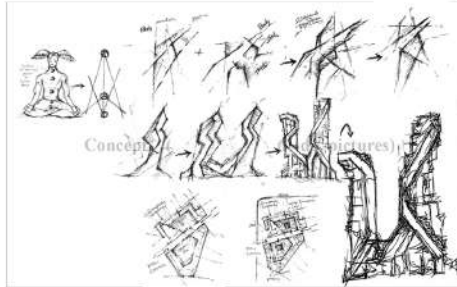
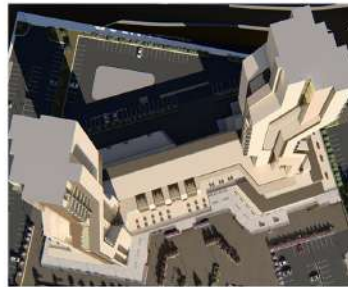
**WEST ELEVATION**  
SCALE 1:200



**SECTION A-A**  
SCALE 1:200



**EAST ELEVATION**  
SCALE 1:200





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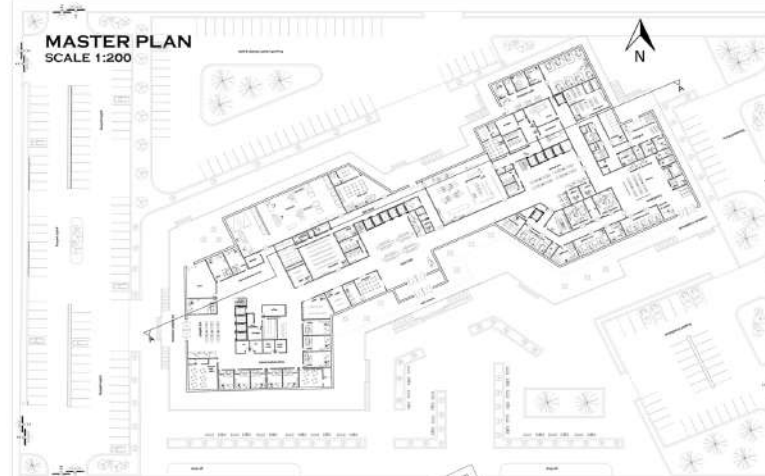
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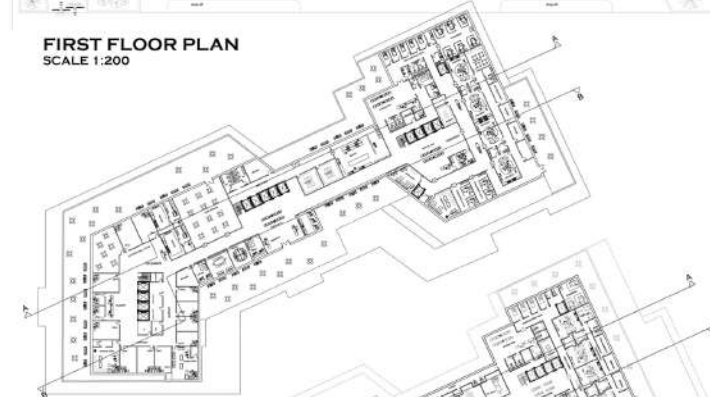
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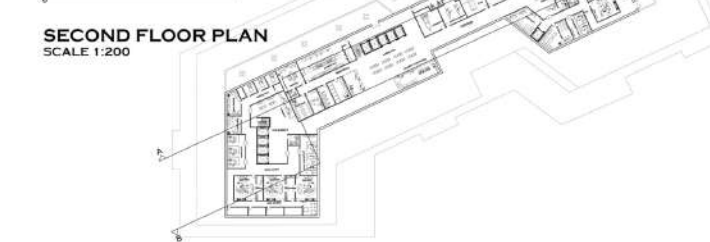
## PLANS



FIRST FLOOR PLAN  
SCALE 1:200



SECOND FLOOR PLAN  
SCALE 1:200



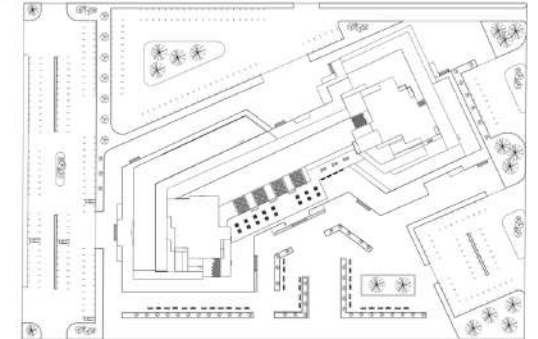
### TOWER A PLANS SCALE 1:200



### TOWER B PLANS SCALE 1:200



### SITE PLAN SCALE 1:300





The Hashemite University - Department of Architecture  
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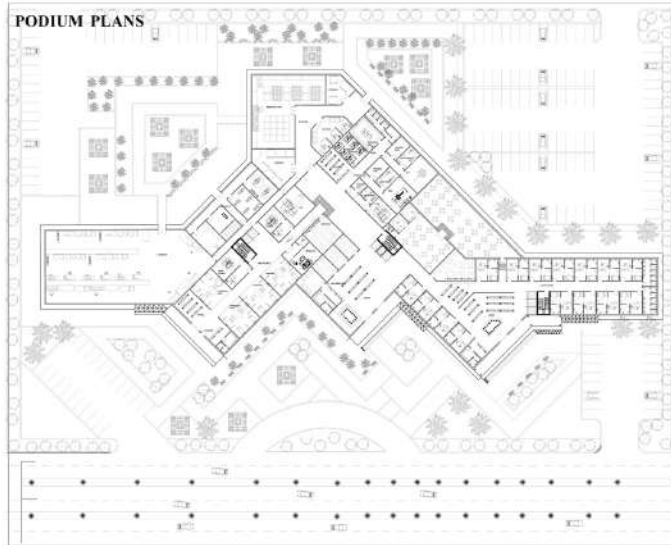
Project: Twin Tower Specialized Hospital

St. Name: Yara Obeidat

Supervisor: Dr. A. Al-Husban Arch. E. Khasawneh Arch. L. Shqra



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GROUND FLOOR PLAN 1/200

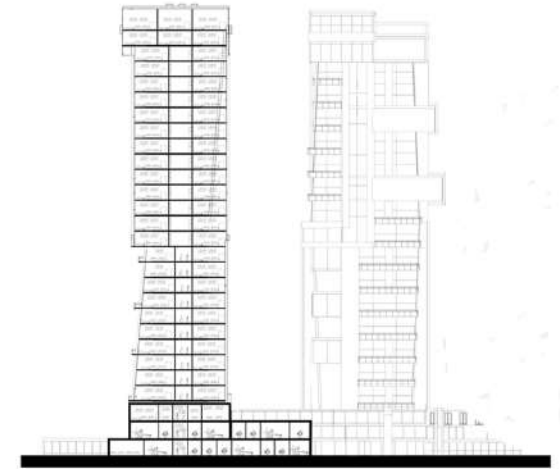


FIRST FLOOR PLAN 1/200



SECOND FLOOR PLAN 1/200

SECTIONS 1:400



SECTION A-A



SOUTH ELEVATION



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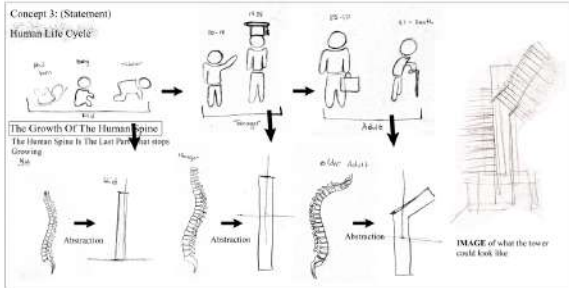
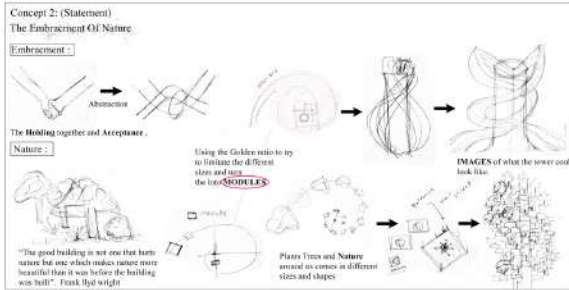
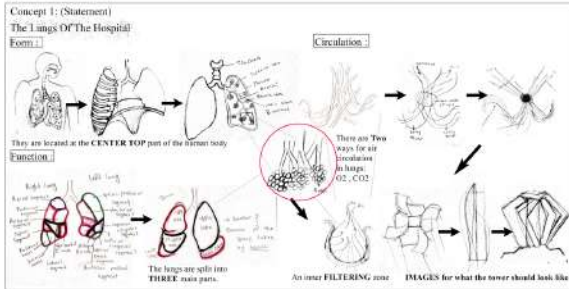
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St. Name: Yara Obeidat

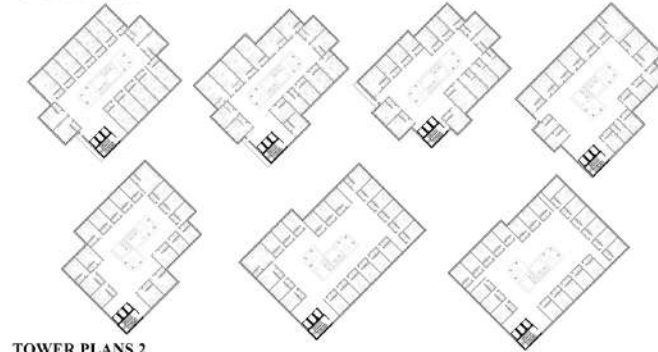
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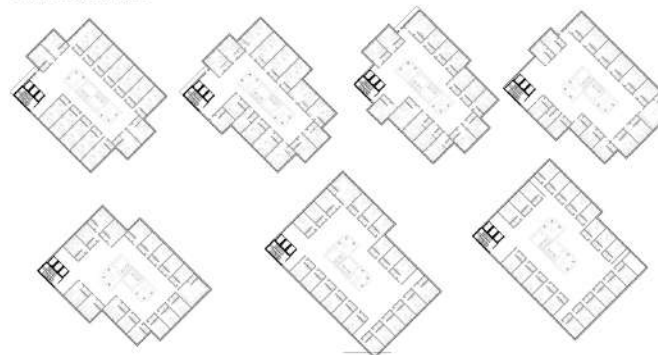
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**TOWER PLANS 1**



**TOWER PLANS 2**





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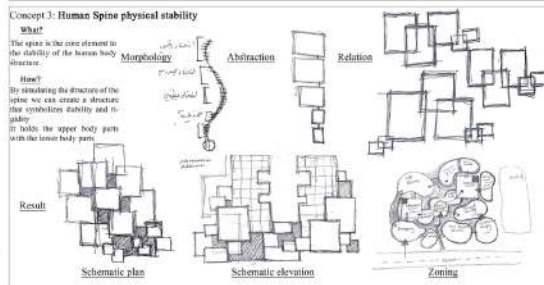
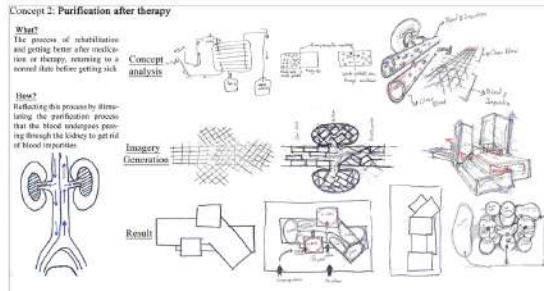
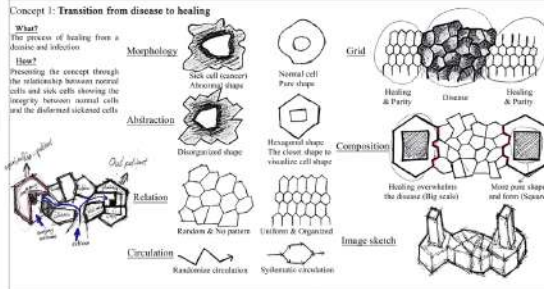
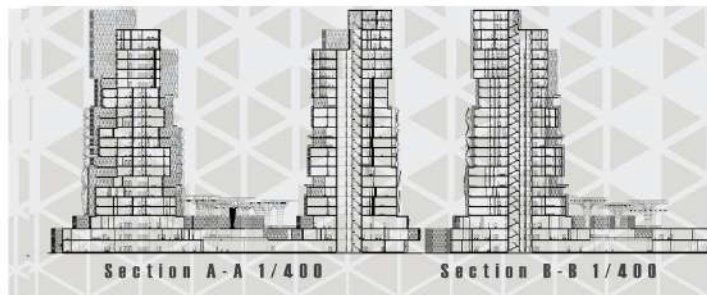
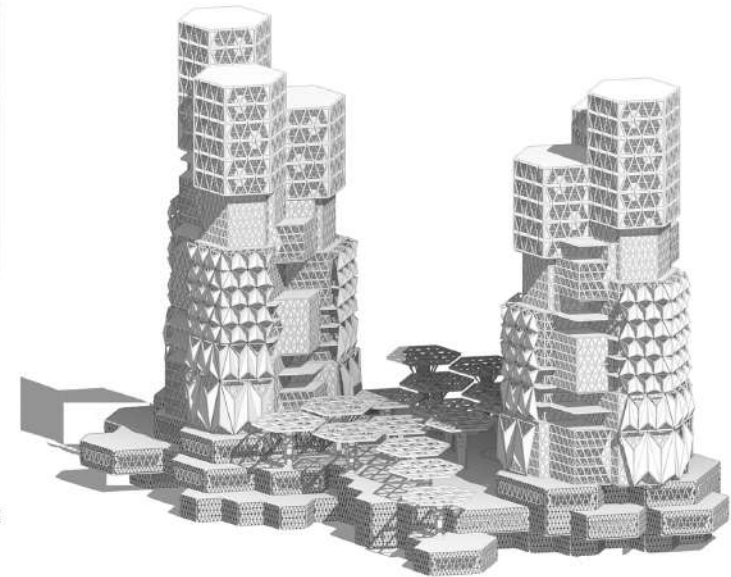
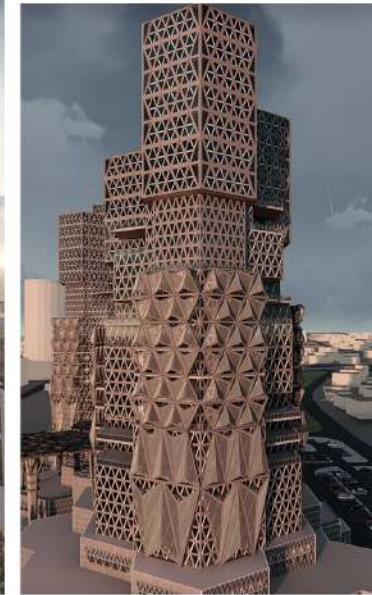
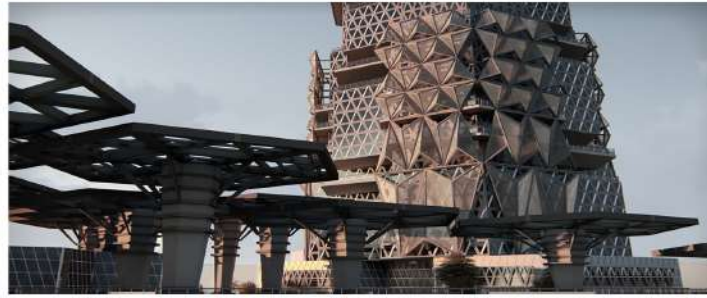
Project: Twin Tower Specialized Hospital

St. Name: Yahia Al-Qous

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



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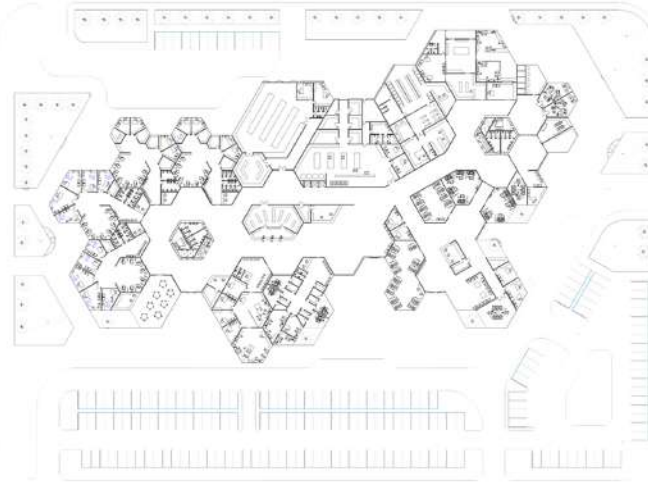
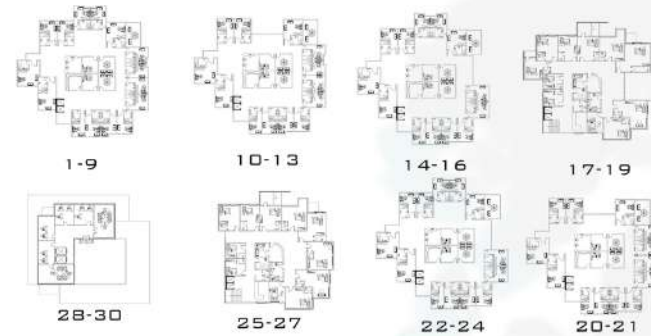


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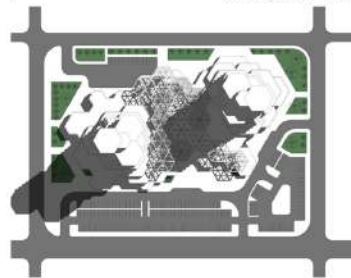
TOWER 1 PLANS  
 SCALE 1\200



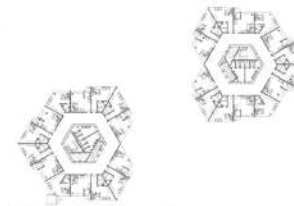
TOWER 2 PLANS  
 SCALE 1\200



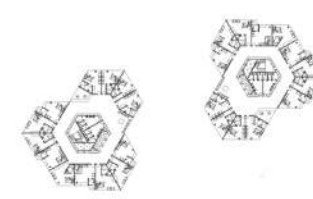
Master Plan 1/400



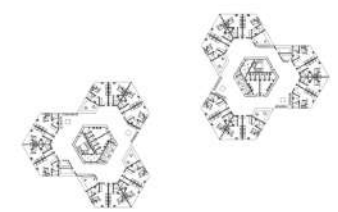
Site Plan 1/1000



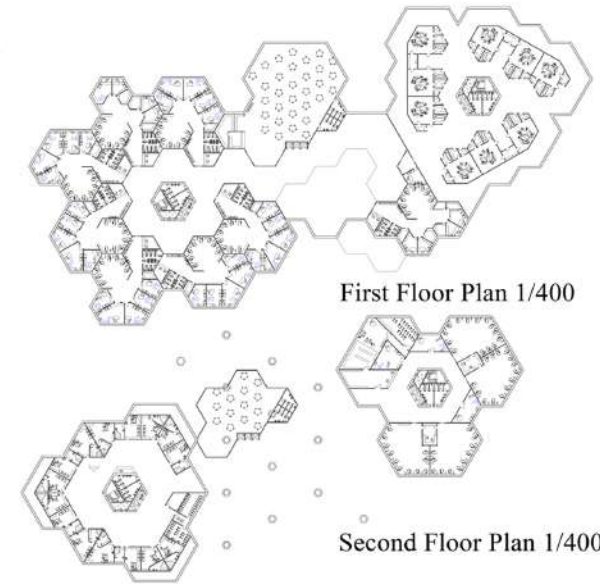
Towers Plan 15



Towers Plan 16

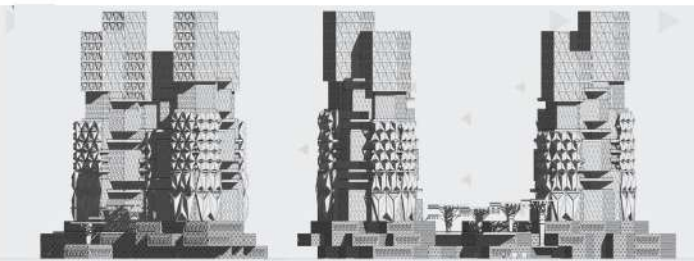


Towers Plan 19

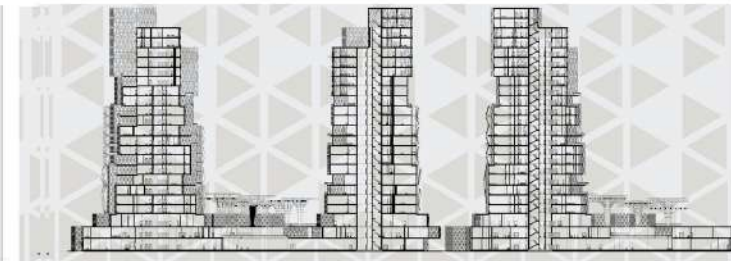


First Floor Plan 1/400

Second Floor Plan 1/400



Western Elevation 1/400 Northern Elevation 1/400



Section A-A 1/400 Section B-B 1/400



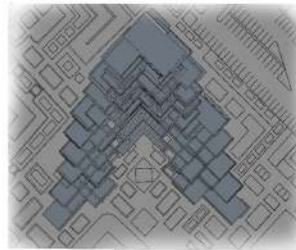
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St. Name: Walaaw swais

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra

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SITE PLAN SCALE 1/500



**Concept 1: عملية التهامية**  
**PROCESS OF OPSONIZATION**

**Definition??**  
Opsonization is the process by which a pathogen (virus, fungi or bacteria that causes disease) is marked for ingestion and destruction by a (phagocyte) (الخلية التهامية)

**Why this concept ??**  
Because this concept is involved in how the body detects exactly the disease and attack it without the need for help

**Small description:**  
The concept is derived from the complexity and the state of activity and interactivity inside the cell

**How ??**

**Stage one:** In the first stage after the cell has killed the virus

**Stage two:** the maximum state of activity and interactivity inside the cell to produce enzymes

**Stage three:** the maximum state of activity and interactivity inside the cell to produce enzymes

**Stage four:** In the first stage after the cell has killed the virus

**Development of composition:**

**Forming the bodies:**

**Concept 2:**  
**White cells are a defense wall**

**Definition??**  
White blood cells are the cells of the immune system involved in protecting the body against both infectious disease foreign particles and abnormal cells, such as cancer. Most are made by the bone marrow and circulate just as the red blood cells, but with the capability to defend the body from the invasion of pathogens. **White blood cells** are approximately 1% of the total blood volume in a healthy adult.

**Why this concept ??**  
because all hospitals are involved in protecting the body from the infection and in immune system

**Small description:**  
This concept is derived from: how the white cells work to form the defense wall by the revolution around the stranger cells

**How ??**

**form types:**

**Neutrophil:** In killing a white blood cell, the white blood cell gets to the site of infection.

**Eosinophil:** In gathering or attacking white blood cells around the stranger cell (bacteria).

**Basophil:** In gathering or attacking white blood cells around the stranger cell (bacteria).

**Lymphocyte:** In gathering or attacking white blood cells around the stranger cell (bacteria).

**Monocyte:** In gathering or attacking white blood cells around the stranger cell (bacteria).

**Mast cell:** In gathering or attacking white blood cells around the stranger cell (bacteria).

**Development of composition:**

**Forming the bodies:**

**Concept 3:**  
**Process of mitosis division**

**Definition??**  
The process in cell division by which the nucleus divides, typically consisting of four stages: prophase, metaphase, anaphase, and telophase, normally resulting in two new nuclei

**Why this concept ??**  
because this concept shows how a cell can be divided into two cells which is one of the most important process in formation of human

**How ??**

**Forming the bodies:**



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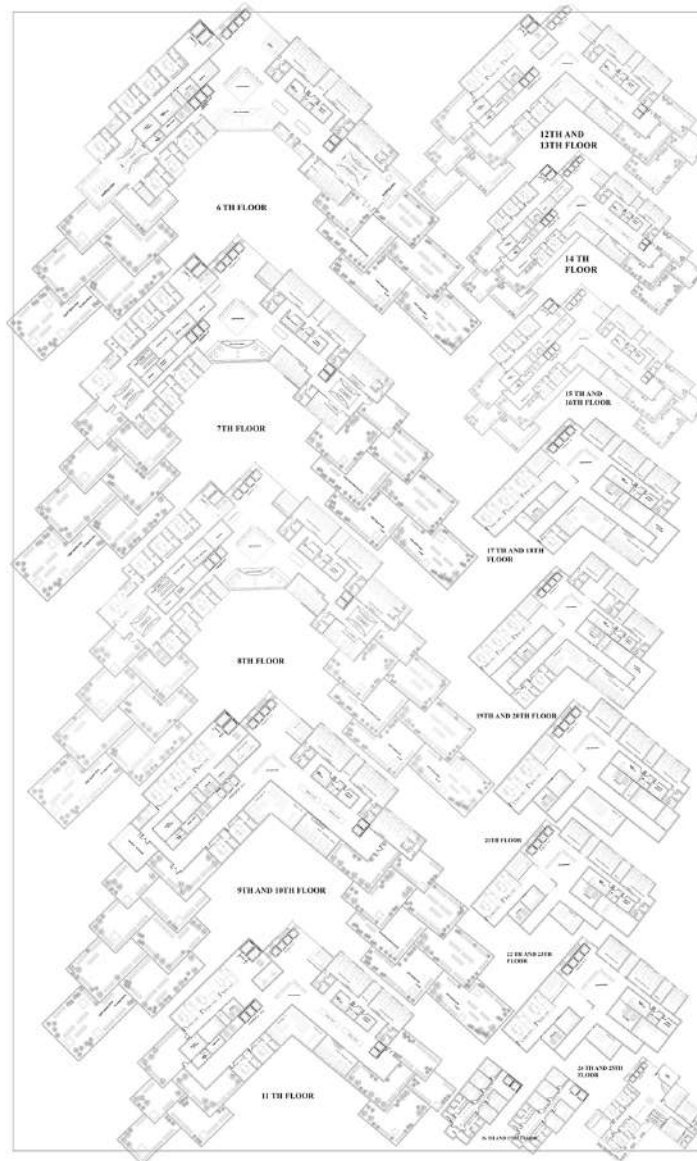
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St. Name: Walaawais

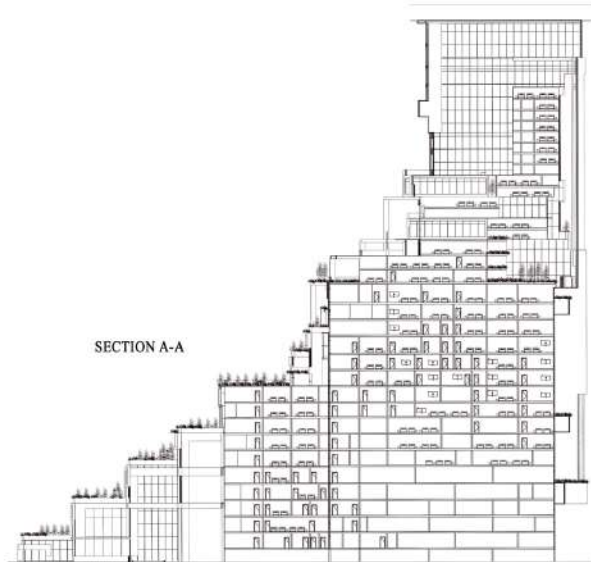
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WEST ELEVATION





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Project: Twin Tower Specialized Hospital

St. Name: Sarah Nasser

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



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**Concept 1: (The thorax | the protective structure of organs |)**

Why : the function of the thorax is the same function of the hospital which is designed to protect people as the thorax is created to protect the heart, lungs and other organs.

How : I quoted the structural system of the main spine holding the ribs, different types of ribs and the body of the thorax to create an image of exposed structure which will define my circulation system.

zoning & circulation

**Concept 2: (the phoenix : ( a symbol of REBIRTH from THE ASHES of the past))**

why: as the patient the phoenix rises from the flames of sickness as a warrior beating all life challenges and defeating hard times.

How: by abstracting the phoenix and his life and death process

zoning & circulation

**Concept 3: (The old and new downtown of Amman : (the old image is the way to create a new related image))**

why : the need of a related site and architecture which makes patients from all over Amman familiar with the place

How: by reddening the concept of AMMAN's stairs which stitches the community through this element that brings up the troupe of people but in a modern way in the new downtown

Ground Floor Plan scale (1:900)

Fifth Floor Plan scale (1:900)

Second Floor Plan scale (1:500)

Third Floor Plan scale (1:500)

Fourth Floor Plan scale (1:500)

Sixth Floor Plan scale (1:500)

Seventh Floor Plan scale (1:500)

Eighth Floor Plan scale (1:500)

Ninth Floor Plan scale (1:500)

Tenth Floor Plan scale (1:500)



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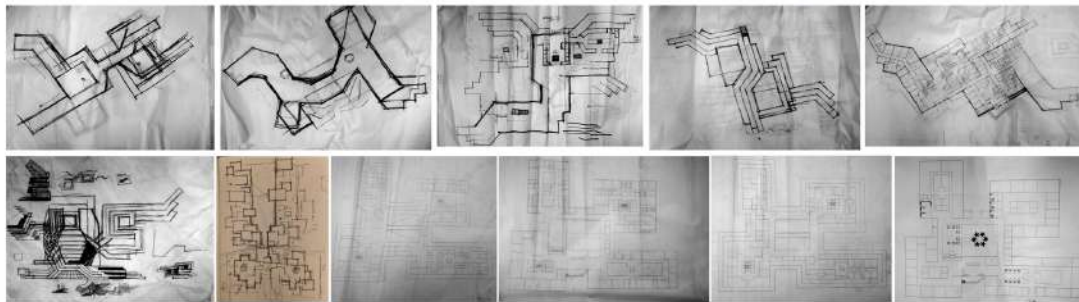
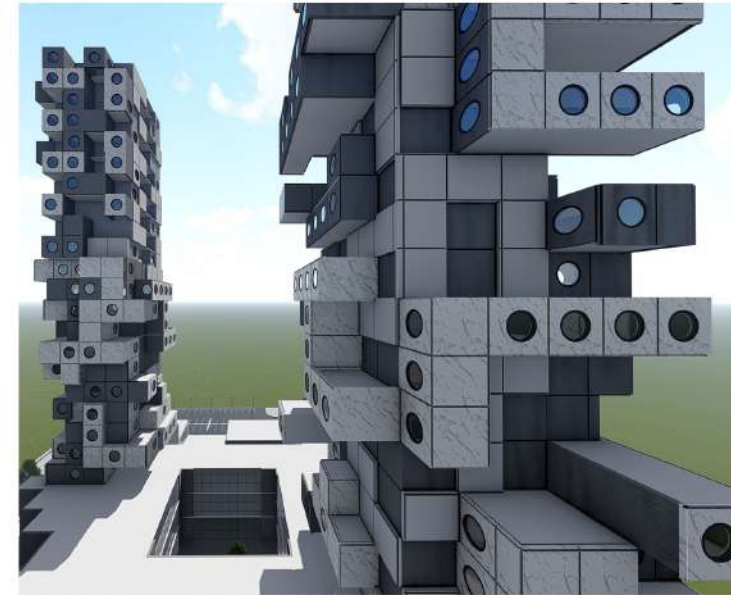
Project: Twin Tower Specialized Hospital

St. Name: Sarah Nasser

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



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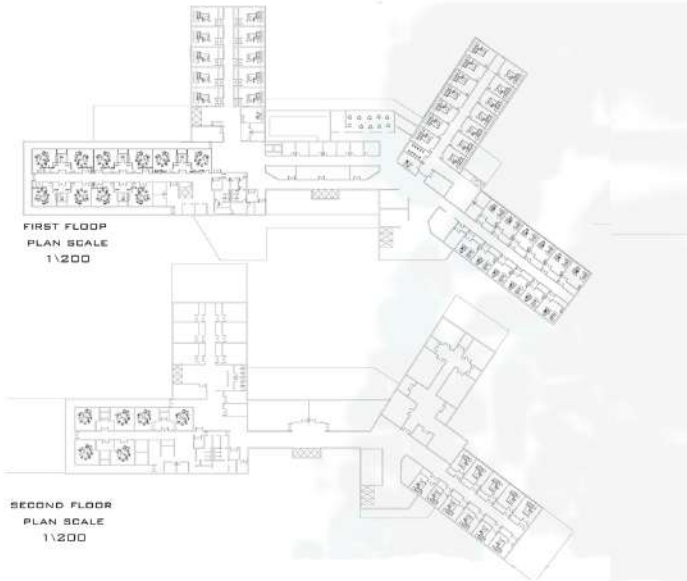
Project: Twin Tower Specialized Hospital

St. Name: Laith Hamdan

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



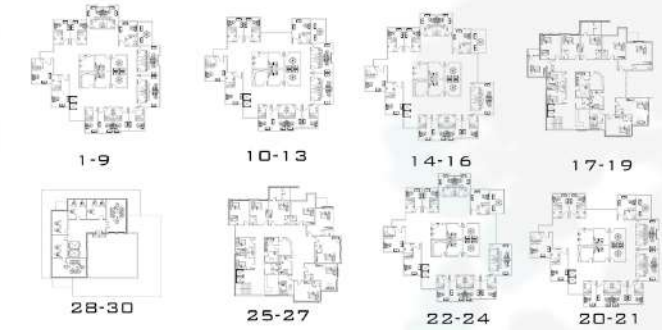
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TOWER 1 PLANS  
SCALE 1\200



TOWER 2 PLANS  
SCALE 1\200





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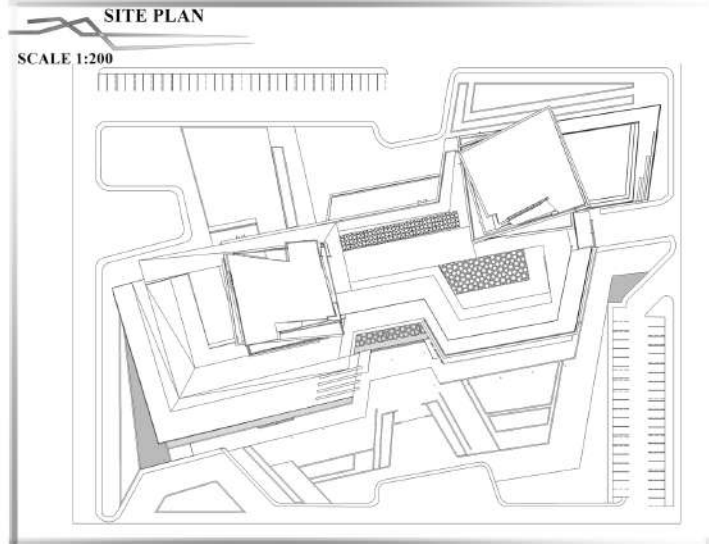
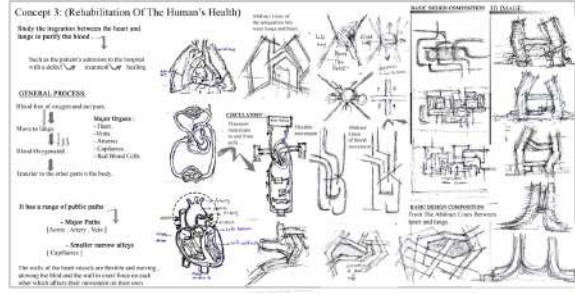
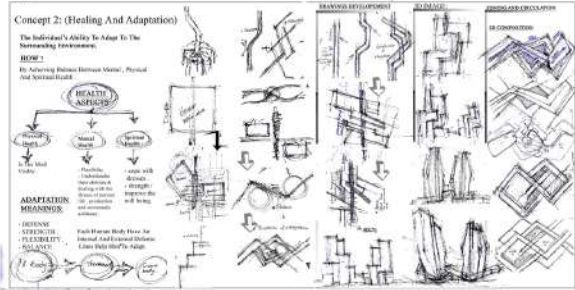
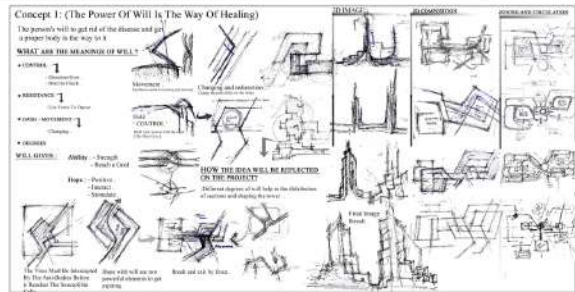
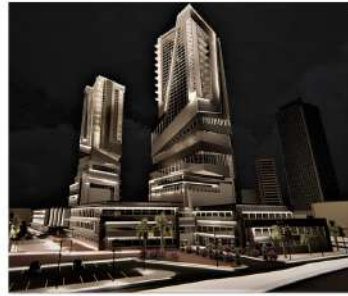


Project: Twin Tower Specialized Hospital

St. Name: Dana M. Al-Deiri

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra

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Project: Twin Tower Specialized Hospital

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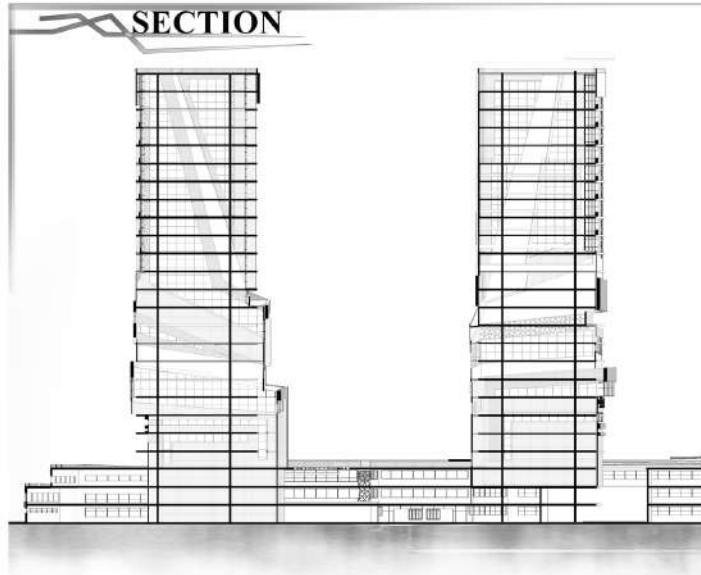
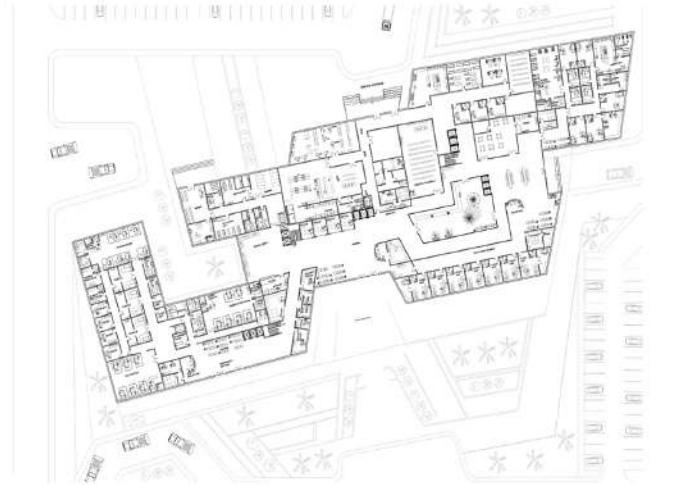
Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



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### GROUND FLOOR

SCALE 1/200





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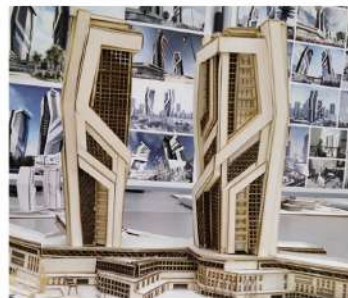
Project: Twin Tower Specialized Hospital

St. Name: Aya Al-Bitar

Supervisor: Dr. A. Al-Husban Arch. E. Khassawneh Arch. L. Shqra



Design of a modern medium to high-rise multi-functional building in the urban context by using comprehensive design methodology including integrating design, building interior, function, circulation nodes, structural, environmental, and construction systems, services core, flow spaces, exterior envelopes, electro-mechanical systems and supporting services, materials selections, life-safety provisions, active/ passive energy systems, site planning, regulations, and principle of sustainability.



**CONCEPT 1:**

**HEALING NEEDS**

**WHAT?**  
Characterization of a Healing Requirement

The main COMMUNICATION and the integration of INTERACTIVITY and connectivity with the patient as part of the care environment

Healing is a complex, recursive that the emotional and spiritual well-being of the patient is the relationship of a patient's experience of the hospital building



**WHY?**  
Healing is the process for self-healing and pain-free care provided in the design that the patient feels a sense of well-being in building or space. Some healing is restricted to psychological conditions. One. The process that connects:

- Psychology
- Physiology
- Medical Training

**HOW?**

around the back Top / Air /

HEALTHY

The transition that occurs in the Patient care and in the Look and the feel when the patient is in the building

Connections

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**CONCEPT 2:**

**THE BREATHING SYSTEM**

**WHAT?**  
Breathing process beginning of life from mother's womb through the lungs

What is the process of breathing?

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**HOW?**

The brain that supply on the body with force and give the cells energy

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**CONCEPT 3:**

**BRAIN IS CENTER OF CONTROL**

**WHAT?**  
The brain is divided into right and left hemispheres, and each has its own special functions.

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