Arab Academy for Science, Technology and Maritime Transport

COLLEGE OF ENGINEERING & TECHNOLOGY

Department	Architectural Engineering & Environmental Design
Lecturer (s)	Professor Moustafa Gabr, Professor Hatem El Tawil, Professor Adham Aboulnour, Dr. Maye Yehia, Dr. Ahmed Abou El Wafa, Dr. Sally El Deeb, Dr. Ahmed Moussa, Dr. Ingy El Gebaly, Dr. Ahmed Nasr, Dr. Ahmed El Fakharani, Dr. Ahmed Kamal, Dr. Assem Mounir .
Course	Graduation Project **Course Code:** AR 501
Term	Spring 2022

Projects' Abstracts

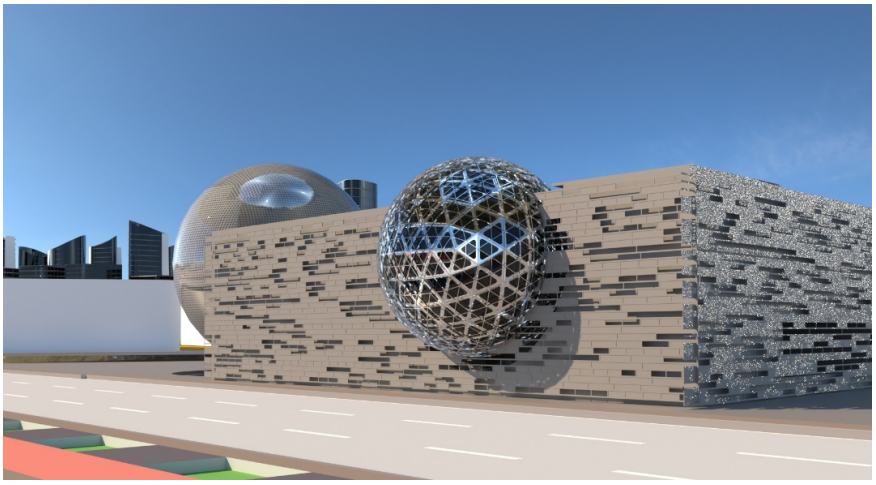
Student Name	**Mariam Hamza**
Registration number	**17101307**
Title of Project	**THE ORION: Astronomy Museum**

Egyptians made an enormous contribution to the development of humankind. They are known for their impressive achievements in architecture, art and science. The most important sciences at that time included algebra, geometry and astronomy, which were widely applied in early Egyptians' daily lives. Designing The Orion as a reward and completion of explaining their efforts for knowing more about our universe. The Orion aims to popularize the science of astronomy and space, yet still discoveries are made in a fun way so that it would be acceptable and easy to learn about.

Astronomy has been lately completely abandoned to be explained or discovered. Lately with all the phenomena taking place, people's curiosity has grown, searched have increased, but still typical mindsets are holding the urge to discover new topics. There is nowhere to find such a sufficient way to teach about astronomy in a way to attract people to it, nor giving the right guide to people. Although the internet helped people a lot, yet still that is not enough to depend on in learning something new, especially if it needs interaction and activities that provokes the human senses.

The space is still just a fuzzy thought to many people, they still don't understand much about it. In addition to all the phenomena, news that has been lately happening, it is time for a trusted source to tell the truth about the fuzzy space.

As a result, minds need to be triggered to get the urge to discover more, hence, Orion's role is to explain new discoveries, giving a chance to attract more minds, teach more about astronomy. The Orion is available to all ages, it's open for all people. It seeks more information to be spread, raise more awareness of the space and cosmology, yet still seeking to be as fun as useful. Not to mention, the new experience the users are going to try. In addition to designing an attractor to the Muharram-Beh site that would be a good economic step to the site, as it would be hosting a one of a kind museum, that would have people visiting, not to mention that it would be the new landmark of Alexandria as it is the first to offer this kind of content.



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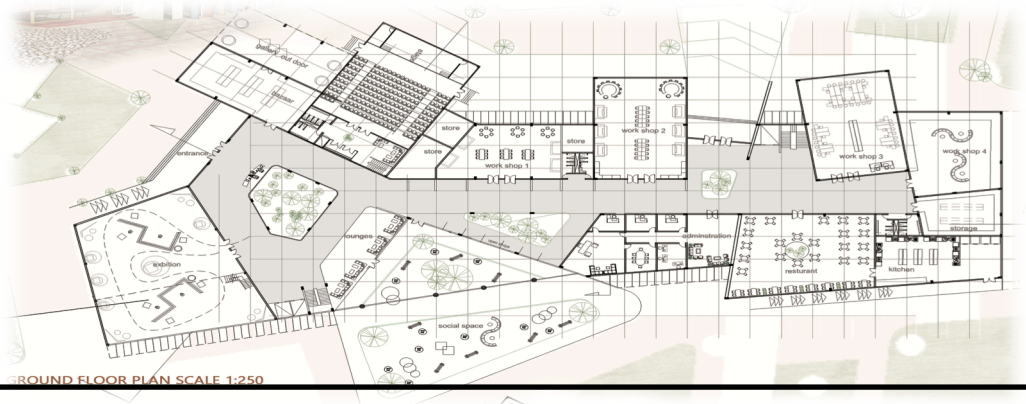
Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name **Mahmoud Mohamed Asar**
Registration number **12102888**
Title of Project **Vocational Center For Street Children**

The aim of this project is to give streets' children homes when they can flourish, be educated and have the opportunity to be integrated into the community. Around 2 million children are believed to be on the streets of Egypt. Most in Cairo and Alexandria according to a 2011 study, that was conducted by Egypt's National Center for Social and Criminological Research (NSCR), finding that at least 20% of these children are victims of trafficking. So my concept is how to contain the kids and make them feel like home with learning so I make 2 main Zones educational zone for the rehabilitation for this kids; Workshops Zone (Cooper, Fabric, Wood, and Pottery). And there separate zone the social space for the communicate with each other and we have the outdoor area I made for the different activities to practice like playing sport on the green area and also they can perform on the open theater the main idea for the project is how to make recover and healing for this kids by teaching them craft that will help them on their future.



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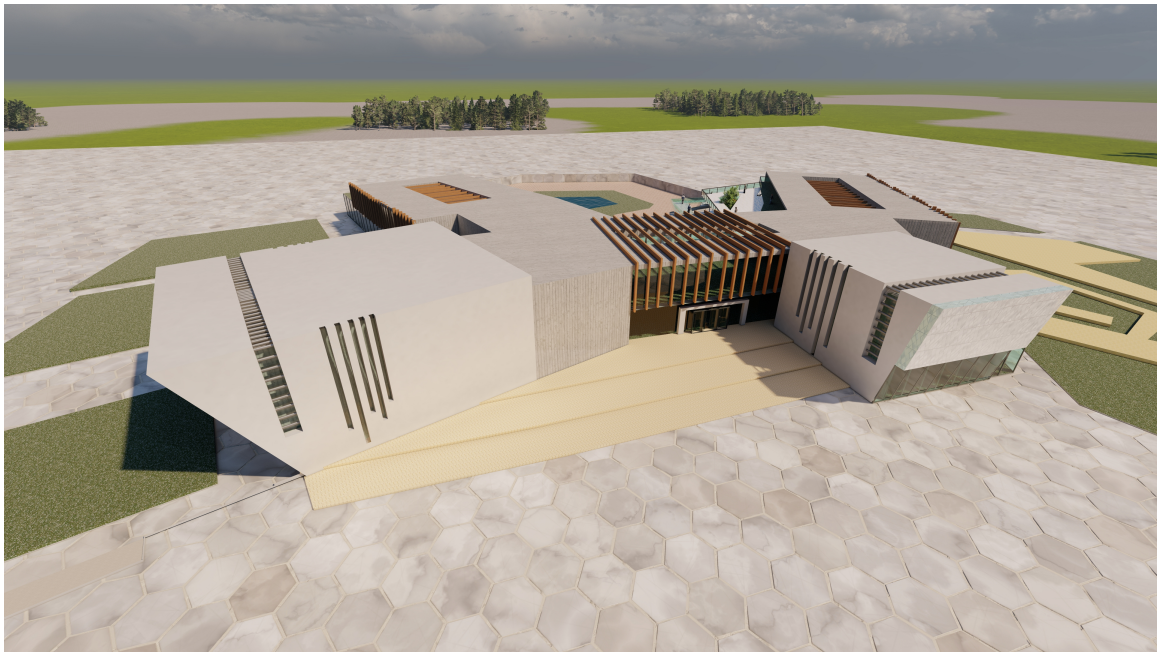
Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name: Karim Edwar Shaker
Registration number: 11100140
Title of Project: Craft Center for North African.

-The reason why I choose this project is that handicrafts in Egypt have begun to decrease significantly and few people have this knowledge and profession, and this is due to the recent technologies advancements of the Industrial Revolution and the increasing mechanization of the production processes. In consequence, there is a need to revive the professional role of craftspeople that can be an economic source and develop livelihood for local communities.
-The Site had chosen near Derissa area because this region is the poorest region and lacks many services (Residence, Educational, Random workshops, random streets and transportation).
-The aim of this project is reviving these Handicrafts (Textile, engraving on copper, Pottery and traditional clothes) , These handicrafts are the common handicrafts between the five participating countries, which are (Egypt, Morocco, Libya, Algeria and Tunisia), And linking these countries together at the same place to exchange cultures, Providing large and many job opportunities for the people of the region, educational opportunities, and the economic upgrading of the region.
-The components of this project are: Reception, Exhibitions (Indoor, Outdoor), Shops, Workshops, Restaurant, Auditorium, Open Theatre, Gathering Area, Classes and labs, Library and Administration.
- The materials used in construction are steel. Construction systems: trussed frames and post tension system.



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Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name: Mohamed Ahmed Keshk
Registration number: 17200313
Title of Project: Festival Entertainment Cinema Complex

The aim of the project was to make a new complex to house a lot of activities that will be made in Alexandria, by having a cinemas, Egyptian cinema exihibition for old actors history ,exhibition for the foreign cinema experience as the Marvel experience , sony and DC experiences
The main concept was to make a new experience of the cinema complex entertainment by adding some new elements featuring super heros.
The Project's location is at the city gate where there is a lack of these types of buildings with exhibitions and educational planetarium that educate the people of the district with the sense of entertainment. Exhibitions from around the world will attract tourists and visitors to discover Virtual Reality and Hollogram spaces in addition to the site and landscape that is integrated with the building. The site selected is accessible from Mahmoudia Canal Axis.

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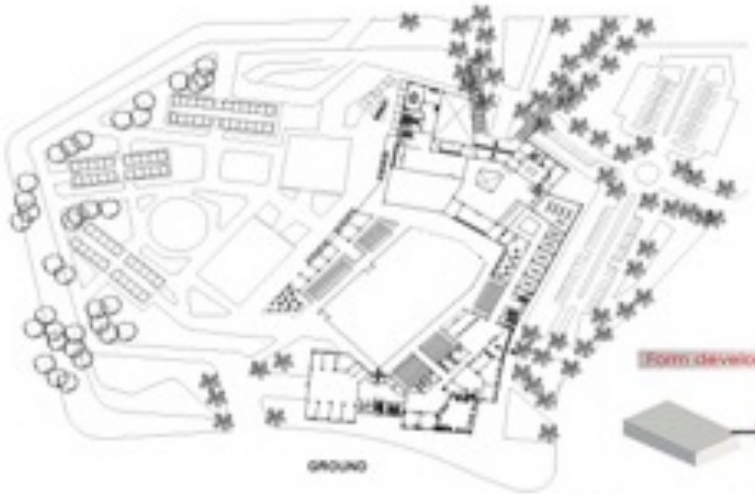
Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name: Omar Hazem Ahmed
Registration number: 17100990
Title of Project: Muharram Bek Equestrian Jumping Club

Egypt possesses a valuable the heritage of horse riding through different periods of time. Unfortunately, today Egypt has lost its place on the map as it barely organizes any champion ship. Therefore the aim is to create a sustainable environment where the awareness of the visitor could be raised by interacting with horses on daily basis. The main concept: I took the world map and pinned fixed points where the countries that are known for the strong horse breeding around the world to create a creative form of architecture to attract the observers attention. My challenge was to transform our visitors into users by making our visitor pass through zones: 1st phase {Introduction phase} where the visitor should be introduced to the heritage value of Egypt's Equestrian club since the early ages Egyptians were the first to interact with the horses species to create advantages of such creatures as they where used in war also the humans depended on the horse as a part of the family till the early 1900, before the automobile. This time line will be presented in double height lobby and exhibitions for the classic and modern types of saddles a also galleries for horse art pictures and shops for jockeys to buy Equestrian tools I also reflected the deconstruction in plan grid and in ceiling also I used perforated carbon in order to decrease Carbon emission.



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Course Graduation Project **Course Code:** AR 501
Term Spring 2022

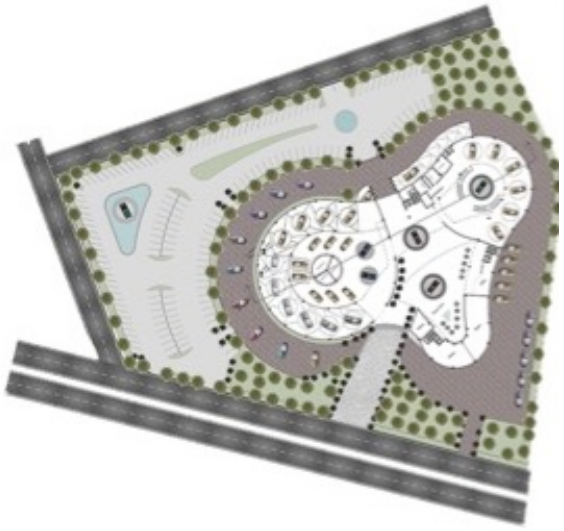
Projects' Abstracts

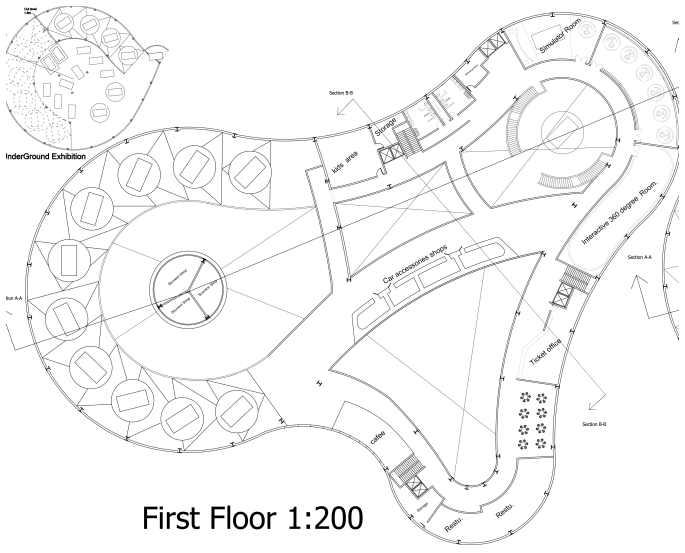
Student Name: Ali Hesham Omar
Registration number: 17101366
Title of Project: Classical Cars Museum

The main aim of the project is to attract the youth to the site ,and this project also serve the whole master plan , as Sport activities and classic Cars are well known for teenagers and youth. In this project, they record all new updates and watch it on daily basis. This site is considered as Alexandria city gate and also links between two main Governorate (Alexandria-Cairo), this is the reason of the main selection of this site. The challenge is to discover all types of cars in Egypt and this project reflects Egypt Classical Cars Value. One of the most important challenges was to preserve the value of classical cars and old Royal cars and explained their value to the public.

There was a museum that was established by King Farouk in 1927 and then the museum was restored again in 1950 - some famous people bought these Classical cars so we know their price and model of the car were written down, so by this way we can buy it from these people. The museum is also used as a storehouse for people who own these classic cars in exchange for preserving them. The owner of the car get benefits from the fame of his car in the museum and on the other hand, he keeps it safe.

The Architectural Concept is dividing the building into 3 main parts - the largest part is the showroom for classic cars stacked in Historical order of classic cars from the oldest to the latest according to the car model - the second part is the VR part, simulator and other entertainment spaces - the third part is dedicated to cafes and restaurants.





First Floor 1:200

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Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name: Kyrillos Gadallah Atallah
Registration number: 15101796
Title of Project: Business Complex for Entrepreneurs

The site is considered the new city gate of Alexandria, so the main objective is to encourage new investments by creating a new hub for businesses and start-ups in this strategic place near by an industrial area and to encourage youth to start their own businesses by preparing them and providing the necessary mentor-ship. The project contain 3 masses, each mass with a different function: the main mass is the entrepreneurship center linked with other masses in upper floors that contains a public and events space , educational spaces and workspaces in different scales from startup to large office for corporates branches. The aim is to link young entrepreneurs with investors and mentors by sharing the same work environment and providing the facilities to develop their start-ups. The objective is also to provide a workspace and offices for all businesses from small businesses and start-ups to the big corporates branches. The project is owned by the government with a partnership with investors to develop young entrepreneur's ideas and offer a new work environment for different scales of businesses. The government will support the project and encourage investors by giving a space for big companies to open that will provide job opportunities for young people. The entrepreneurship center is aiming to develop startups by providing the necessary facilities, funds, resources and providing a workspace as the project success.

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Course	Graduation Project **Course Code:** AR 501
Term	Spring 2022

Projects' Abstracts

Student Name: Shehab El Din Yasser
Registration number: 17100838
Title of Project: Research Center for Buildings Materials

Today, the world is facing an alarming problem with resources. This deficiency in resources problem is threatening all industries with no exceptions and particularly architecture and built environment industry. This has lead researchers to question the non-sustainable building materials with short life spans used in architecture that cause irreversible damage in the environment. Buildings contribute to 40% of the annual global carbon dioxide emissions. This contribution could be greatly reduced if building materials were employed correctly saving energy for heating and cooling of buildings and thus reducing buildings carbon footprint. Egypt is rich with different natural durable building materials, yet not enough research has been done in this field. The usage of durable building materials is only limited to small scale forms of built environment with little positive contribution to the environment; whereas other forms of built environment with larger scale and bigger contribution to the environment are built with the conventional non-sustainable materials. This is due to the lack of research about sustainable, recycled and high tech building materials. In order to employ passive and active energy systems in our built environment, the reuse of recycled materials can stand out as an innovative, highly effective, and artistic expression of sustainable design; and in Egypt, there are a lot of waste to be recycled. The site selected, Al Derrisa, is considered as the second largest Marble industry in Egypt. Al Derrisa produces a lot of Marble waste that can be recycled and reused in building materials. The site is also expecting a huge development plan that will cause a lot of demolition acts and bring out a lot of building material wastes. Add to this, the site contains a lot of abandoned structures of industrial buildings that can be reused as reclaimed steel structure. The surrounding context also produces a lot of waste especially the surrounding agricultural lands that produce rice straw waste. Making use of these wastes in building materials could greatly elevate the future development of this area.

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Course	Graduation Project **Course Code:** AR 501
Term	Spring 2022

Projects' Abstracts

Student Name: Ahmed Maher Elsaka
Registration number: 17100330
Title of Project: Moharam Bek Transportation Hub 2050

Recently, the Egyptian government began to move to extend new railways with modern electric trains, to be environmentally friendly, and also to connect all Egyptian cities and ports with transverse railways, as it heads from Ain Sukhna to the administrative capital, from there to Cairo and from there to Alexandria. The electric train enters Alexandria at the Muharram Bek station, and here I started thinking about making a transportation hub that includes the express train line coming from outside the governorate with the LRT train line passing through the building to take me to the governorate's neighborhoods and centers, and therefore I built a building with means of transportation that would take me from outside the governorate to inside it and vice versa Right.

Also, this transport hub includes all the important services for travelers and passengers, including shops, commercial markets, cafes, restaurants and a service bank for all categories.

This building is a compressed block that includes many means of transportation. If you enter the ground floor, you will take the express train to get out of the governorate. If you go up by elevator or escalators to the second floor, you will take the LRT to enter the city's neighborhoods. If you go down to the underground floor, you will take the bus to go to Any other points far from the stations or take your own car which it is parked in this floor.

I tried to design a building that is more friendly to its users, and there is integration between the building and the surrounding site of activities, sports and running, and also made the building with treatments to protect the building from sunlight and wind, I was also interested in cycling, where I can take a bike and move around Muharram Beck instead of riding a tuktuk, taxi or bus.

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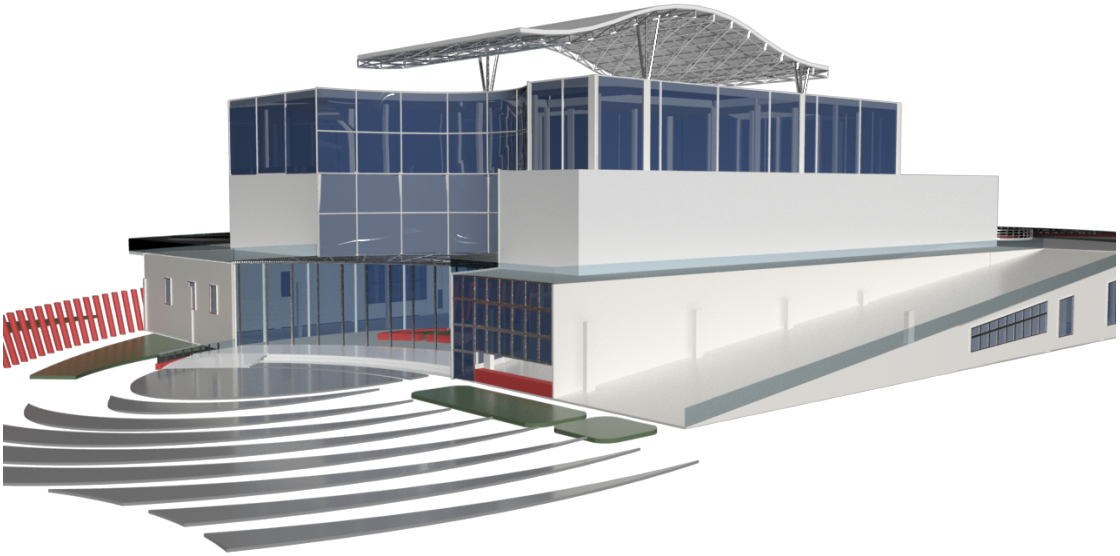
Term	Spring 2022

Projects' Abstracts

Student Name: Yara Yasser Ahmed
Registration number: 16102436
Title of Project: Modern Art Museum, Alexandria

The project is an entertainment center for culture and social interaction for of modern art of Egyptian artists such as Mahmoud said, Abdel hadi Elgazzar, Injy Aflatoun, Sief Wanly and Mahmoud Mokhtar that exhibits visual arts such as painting, sculpture, photography, and digital art.
The site which is choosen for is rich of landscape and nature which will be reflected on the building to be a landmark in Alexandria also environmentally the building will reach natural light and the weather is cool because of the greenery and visually the building has transparent part to integrate with landscape.
The form is inspired by nature. It transforms the nature-like element into architectural. Moreover, the ramp makes the interface between the building and the environment humble and gentle. Its aim is to create a fluid and rich visual impression, in which the building is integrated with the natural landscape,



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Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name: Mai Raafat Mohamed
Registration number: 17100178
Title of Project: Art & Crafts Center

This project was chosen based on the place and the people living there, as they have a willingness to learn and improve their income. I collected the crafts that are on the verge of extinction and revive them again for people so they can benefit socially and economically. The connecting point and link between all the elements are clear in the project design, as it is dedicated to crafts, education, arts, culture, social interaction and commerce.

The honeycomb structural shape is one of the most inspiring structural formations for the designer in various aspects of design, as it is considered one of the most regular, beautiful and economical natural building system. It also has amazing perfection and strength. The genius of the honeycomb system lies in the combination of unity of design, infinite repetition and balance on one hand, and the highest levels of functionality and economy on the other hand. The beautiful regularity in the hexagonal form, which considered one of the strongest design forms in balance. The constructed infinite hexagonal gives beauty of shape, precision in design and saving in material. The design of this façade is on the one hand the response to the desire for abundant natural light and a strong relationship between interior and exterior, and on the other hand the wish to be able to use the façade surfaces. The Hexagon provides optimal solar absorption, a reinforced structure that is able to equally distribute loads, and the shape is natural module.

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Course Graduation Project **Course Code:** AR 501
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Projects' Abstracts

Student Name: Amr Ahmed Othman
Registration number: 14100946
Title of Project: Sports Academy Center

The site of Moharam Bek is one of the most important areas of the city center, in the area of commercial streets such as a Suez St, Mahnoudia Street, the proximity of the sports center is important and valuable because the Sports Center is of cultural, social and historical value.
The type of project was chosen based on all the above-mentioned elements to be the connecting point and link between all the elements. It is an artistic, cultural, social and commercial building. The project site was chosen to be a point of collection and linking all the elements of the site to strengthen the links between it and The Sports Center , Suez Qanal Street and the Mahmoudia St.
Sport pertains to any form of competitive physical activity or game that aims to use, maintain, or improve physical ability and skills while providing enjoyment to participants and, in some cases, entertainment to spectators. Sports can, through casual or organized participation, improve one's physical health.

The idea of the project was chosen to take advantage of the valuable elements of the site and to increase another value of the site represented in the project and to be another attraction point to be added to the site. The project is an Center for Training and performing Physical such as soccer and baskeball, etc).

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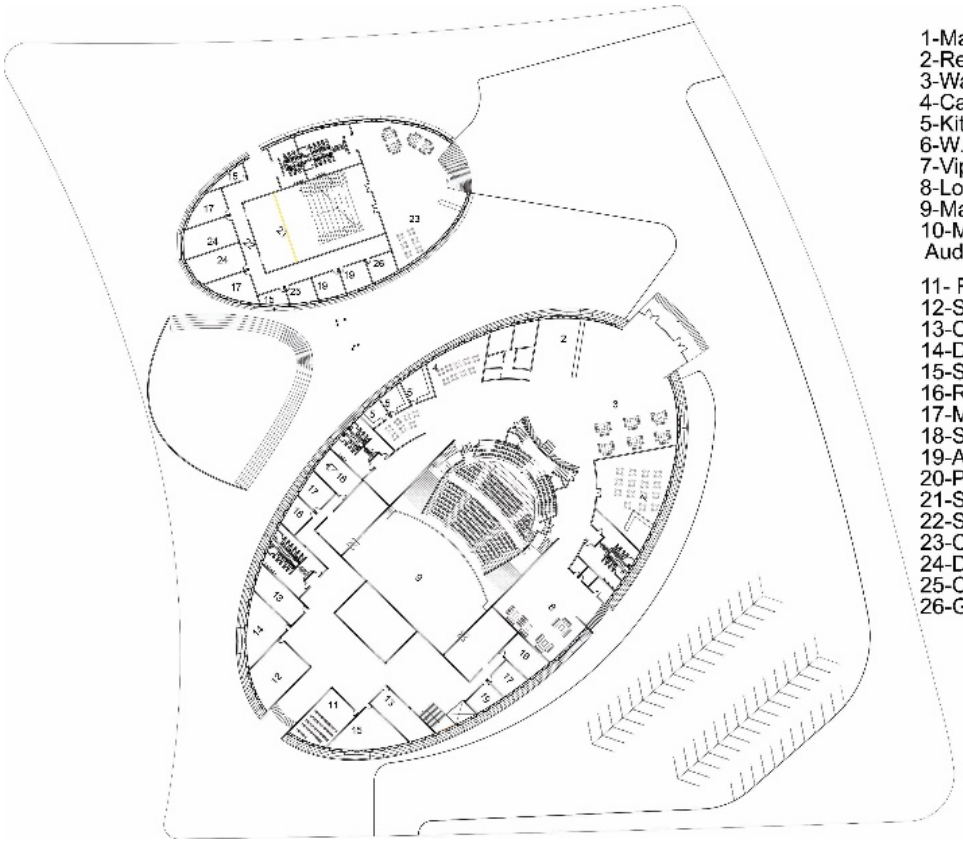
Course Graduation Project **Course Code:** AR 501
Term Spring 2022

Projects' Abstracts

Student Name: Reem Waleed Saad Mohsen
Registration number: 17101840
Title of Project: Performing Arts Center.

I will solve the problems of the 6 performing arts centers in Alexandria, they are old, have many problems, and don't attract people. Two of them have no parking and one has no practice rooms and the other has practice rooms and no theater. I wanted to create buildings that combine form and internal functions and attract people.

The concept: I choose to make 2 ellipse buildings because I want to make smoother circulation that is applied in the interior and the main unit that connects all activities. So that if I have to perform in the small building, I don't have to operate the big building, so I can consume less energy and electricity. There is a large plaza that gathers people and there is a shed that gives them shade and shadow that let them go to the amphitheater.



1-Main Entrance
2-Reception
3-Waiting Area
4-Cafe & Restaurant
5-Kitchen
6-W.c
7-Vip Cafeteria
8-Lounge
9-Main Theatre Stage
10-Main Theatre Audience Back Stage
11- Rehersal
12-Scenery Storage
13-Changing Room
14-Decor Room
15-Storage
16-Rest Room
17-Makeup Room
18-Solo Practice
19-Actor Room
20-Practice Room
21-Small Theatre Stage
22-Small Theatre Audience
23-Cafe
24-Dressing
25-Control Room
26-Green Room

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Course Graduation Project **Course Code:** AR 501

Term Spring 2022

Projects' Abstracts

Student Name: Khadija Mohamed
Registration number: 17101847
Title of Project: ALEXANDRIA TERMINAL HUB

Railway stations around the world are beset by several problems. They are situated in congested city quarters with competing uses; they typically create barriers between communities, forcing pedestrian and vehicular traffic through dimly-lit tunnels. While maintaining a simple and efficient transport arrangement, the project reimagines the role of infrastructure in shaping urban spaces through the celebration of the station's 'underworld' and the establishment of expansive public space while nestling a transit hub integrated fully into the new masterplan of the Moharram bek district. The railway station can be re-established as an integral gateway, an attractor for the southern expansion of the city, and a key destination for the diverse population of all Egypt. On both sides of the Cairo-Alexandria desert road, there are historical places and tourist attractions that we can benefit from by hop on hop off busses. The new Alexandria terminal hub expanding across the railway tracks comprises a bus terminal, monorail. The project is conceived to incorporate the fast flow of the travelers, as well as the slow flow of the visitors, providing accessibility for everyone. Along with the bus terminal, there are modern bicycle garage, travel services, commercial areas, restaurants and exhibition space, that also include outdoor bicycle parking, taxi zones, areas for boarding and disembarking, as well as short-term parking. The bus square has 10 stops for hop and hop bus in public transport. The floating roof, as a rolling, light stratus cloud that shelters the travelers and landscape.