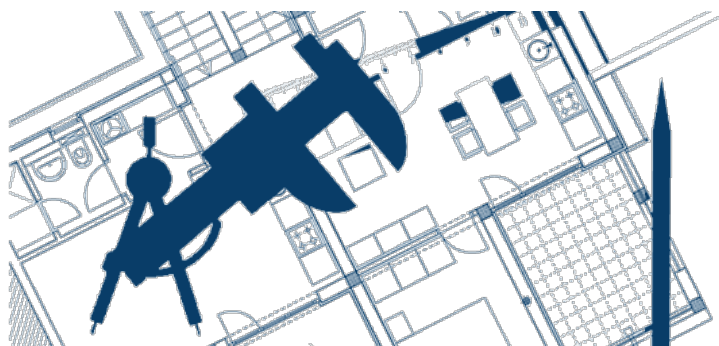
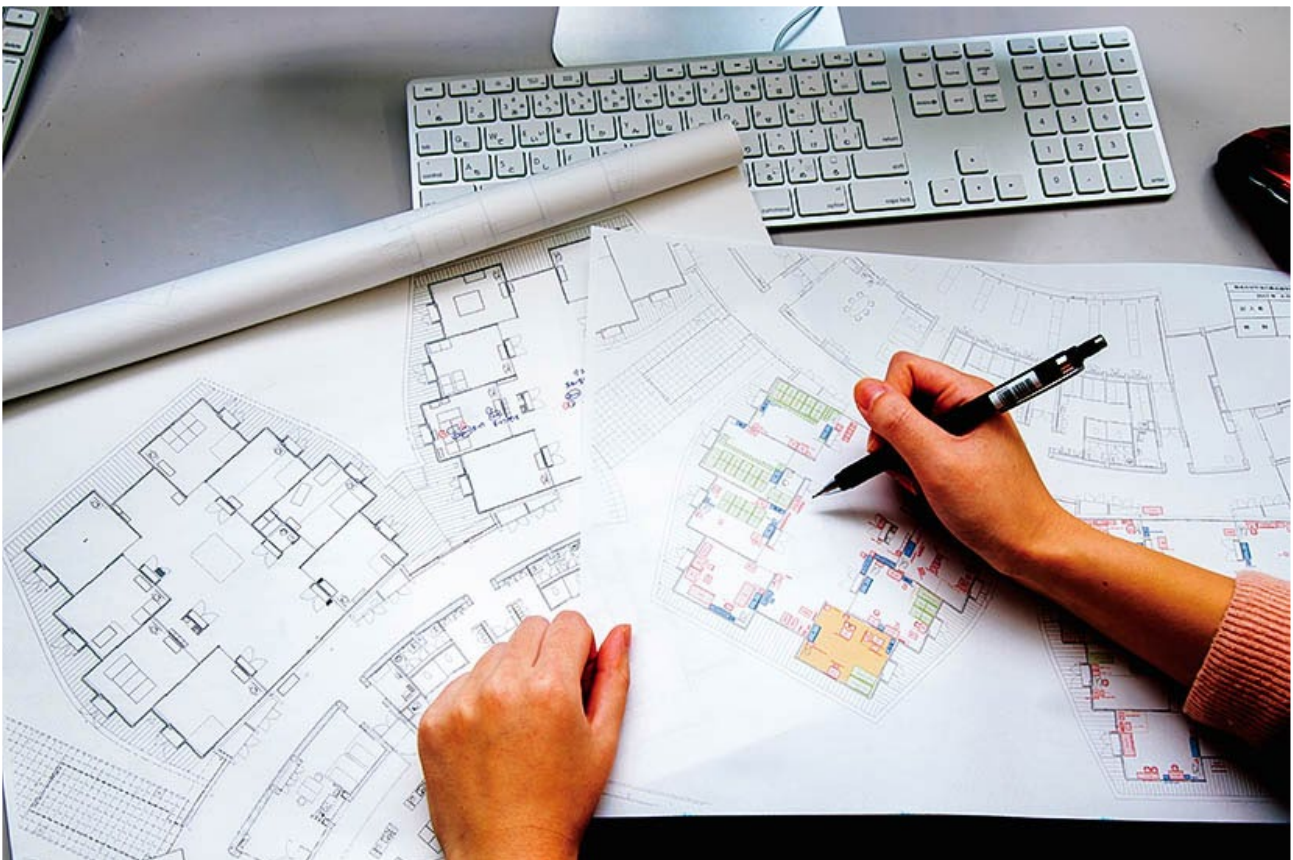


# Student Guide of Architectural Engineering Department 2023/2024



# Student Guide



# Architectural Engineering Department Student Guide

## List of Contents

A Journey of Giving (In Memory of Professor Mohamed Farid Khamis) .....	6
Speech by Major General Dr., President of the Academy .....	7
Speech by Prof. Dr., Vice President of the Academy.....	8
Speech by Prof. Dr., Dean of the Institute.....	9
Speech by Prof. Dr., Head of the Department.....	10
Accreditation certificates.....	11
Academy Logo.....	12
Department Logo.....	12
Architecture Building.....	12
Architectural Engineering Department Building Plan.....	13
Introduction to the Guide.....	15
<b>First: Basic information about the department.....</b>	<b>15</b>
<b>Second: Definition of the department.....</b>	<b>16</b>
<b>Third: Vision, Mission and Objectives of the Department.....</b>	<b>16</b>
(1) Department Vision.....	16
(2) Department Mission.....	17
(3) Department objectives.....	17
(3-1) General objectives of the department.....	17
(3-2) Educational objectives of the department.....	18
<b>Fourth: Distinctive features of the department.....</b>	<b>18</b>
<b>Fifth: Specifications of the department graduate.....</b>	<b>20</b>
(5-1) General specifications of the graduate.....	20

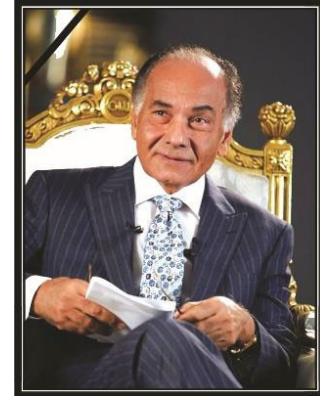
(5-2) Special specifications of the graduate.....	21
<b>Sixth: Fields of work of the department graduate.....</b>	<b>21</b>
<b>Seventh: Organizational structure.....</b>	<b>22</b>
(7-1) Program Features.....	23
(7-2) Faculty Members.....	25
(7-3) Assistant Faculty Members.....	28
<b>Eighth: Definition of the department committees.....</b>	<b>31</b>
<b>Ninth: Departments and units supporting the department.....</b>	<b>32</b>
(1) Student Support Unit.....	32
(2) Education and Student Affairs Department.....	32
(3) Unit Development and e-learning .....	32
(4) Scientific Library .....	33
(5) Student Care Department .....	33
(6) Examinations Department .....	33
(7) Crisis and Disaster Management Unit .....	33
(8) Follow-up Department .....	34
(9) Legal Affairs Department .....	34
(10) Security Department .....	34
(11) Transportation Department .....	34
(12) Medical Administration .....	34
(13) Graduate Affairs Unit .....	35
<b>Tenth: Curricula for the Architectural Engineering Department (2013 Regulations) .....</b>	<b>36</b>
(1) Curricula for the Preparatory Year .....	36
(2) Curricula for the First Year .....	37
(3) Curricula for the second year .....	38

---

(4) Curricula for the third year .....	39
(5) Curricula for the fourth year .....	40
<b>Eleventh: Curricula for the Architectural Engineering Department (2019 Regulations) .....</b>	<b>41</b>
(1) Curricula for the preparatory year .....	41
(2) Curricula for the first year .....	42
(3) Curricula for the second year .....	43
(4) Curricula for the third year .....	44
(5) Curricula for the fourth year .....	45
<b>Twelfth: Equipment .....</b>	<b>46</b>
<b>Thirteenth: Program Admission Policy.....</b>	<b>48</b>
<b>Fourteenth: Student Exemptions and Mechanism for Evaluating.....</b>	<b>48</b>
(14-1) Exemption Regulations for Academic Excellence (Very Good - Excellent) .....	48
(14-2) Sibling Exemptions.....	49
(14-3) Mechanism for Evaluating Struggling Students.....	49

**A Journey of Giving: Mourning Mr. Mohamed Farid Khamis**  
**May God have mercy on him**

Al-Shorouk Academy mourns the loss of Mr. Muhammad Farid Khamis, may God have mercy on him. His absence is deeply felt, as he was not only a leader in the global photography industry but also an exceptional teacher and innovator in the field. The Institute of Higher Education and Scientific Research continuously strives for excellence, aiming to provide top-quality educational services to all institutions. This commitment was recognized in 2017 when it was named the highest quality institute in Egypt, thanks to national support for scientific freedom and institutional advancement. The events of the 2018 Information Technology Conference showcased this progress, reflecting the rich history and cultural heritage of the region. The Academy has set a standard for advanced education, contributing to the growth of the Egyptian and broader Arab economy. We pray for the soul of the deceased, his family, and all who knew him. May God grant him peace and comfort to those he left behind.



**The Management**

**Major General Dr. President of the**

**My dear students,**

The Arab Institute of Technology and Sunrise has continually evolved to keep pace with global scientific advancements and curriculum development. This dedication has resulted in the graduation of outstanding students equipped to engage effectively in their fields. The institute stands out as Egypt's leading scientific institution, thanks to the commitment of its administrative staff and faculty, who diligently execute the academic plan. Under strong leadership, it has achieved accreditation from the National Authority for Quality Assurance and Accreditation.



**I wish everyone continued success in their endeavors**

President of the Academy

**Major General Dr. Ahmed Abdel Rahim**



**Speech of Mr. Prof. Dr. / Vice President**

**Dear students,**

It is with great joy and heartfelt gratitude that I address you today to congratulate you on your enrollment at the Higher Institute of Engineering at Shorouk Academy. This esteemed institution is distinguished by its rich history, expertise, and commitment to quality education. Our focus has always been on establishing a strong foundation for higher learning, tailored to the needs of our society and its rich cultural heritage, while also aligning with regional and international education standards.



To achieve this goal, we are dedicated to continually enhancing the educational process alongside our administrative systems, especially considering the rapid advancements in technology and our changing environment. This has necessitated the adoption of hybrid and distance learning methods to ensure the safety of all students and staff involved in the educational process.

Our commitment to your growth and well-being knows no bounds. We take seriously our responsibility to align your aspirations with societal needs and the goals of sustainable development, thereby enhancing the quality of education and scientific research for the benefit of all, while also ensuring the preservation of our natural resources for future generations.

I wish you all the best for your success and excellence. You are always welcome in your larger home, Al Shorouk Academy.

**May peace, mercy, and blessings be upon you.**

**Vice President of the Academy  
Prof. Dr. Gouda Mohamed Ghanem**

## Speech of Prof. Dr. / Dean of the Institute

### **My sons and daughters, students of the Higher Institute of Engineering in Shorouk,**

Welcome to your institute, one of the beacons of engineering sciences in our beloved Egypt, which provides the fortresses of industry and development with distinguished engineers capable of participating in building and developing the nation. Since the establishment of the institute in 1995, we have been keen to try to provide a distinguished educational environment through activities and material and human capabilities to advance the educational programs it offers, which has earned it a prestigious position and a high reputation to be the most distinguished and creative.



For more than twenty-five years, the institute has paid great attention to its students and their academic achievement. The institute is constantly developing study plans and programs that keep pace with scientific developments and advancements, in line with the requirements of the local and regional labor market, to graduate a generation of qualified engineers capable of achieving leadership and progress in various fields and specializations of the programs offered by the institute. The number of programs reaches seven (Civil Engineering - Architectural Engineering - Electrical Power and Machines Engineering - Electronics and Communications Engineering - Computer and Control Engineering - Biomedical Engineering and Systems - Chemical Engineering General Division - Chemical Engineering Petrochemical Division, which was recently added in 2019). In reference to the role of the institute in developing the skills of its students to think, innovate and create and raise the level of their training.

The institute is keen to conclude partnerships and agreements with Egyptian state institutions, both governmental and private, that are known for their efficiency and excellence. Which will help students in many engineering fields, upon graduation and joining the labor market, which will lead to positive repercussions on the institute's graduates and society.

Dear students, I am pleased to welcome you in this new academic year, dear new, distinguished, and outstanding sons and daughters. Be fully confident that your institute will assume all its responsibilities towards you, and you must do your best to acquire knowledge and be keen on learning and perseverance, and that it will be a year full of giving and a continuation of the creative and innovative work that was done in the past years, and the honorable results and achievements achieved by the institute and all its members from students, workers, faculty members and administration. Always remember that hard work and a lofty goal are the path to success, so set your goals high and follow your conscience and do not underestimate your own abilities. I pray to God to crown everyone's efforts with success and that your studies at the institute will be fruitful, successful and full of happy memories.

**May the peace, mercy and blessings of God be upon you...**

**Dean of the Institute**

**Prof. Dr. Moataz Mahmoud Tolaba**

## Speech of Prof. Dr. / Head of Department

**Dear students,**

I am both pleased and honored by the dedication you are showing in your academic and practical education, as well as in your contributions to the community. This marks a vital step in preparing you to take on the responsibility of advancing our great nation, Egypt, as well as supporting your community, your families, and yourselves.

The administration, faculty, and supporting staff in your department are committed to providing you with the latest resources to enhance the quality of your education. We continuously update curricula and teaching methods to align with the evolving field of architecture, ensuring that you become pioneering architects equipped for success in a competitive job market.

We ask God Almighty to fulfill our aspirations for you, as well as your own hopes and those of your families and communities. We encourage you to approach your studies with seriousness and perseverance.



**Sincerely,**

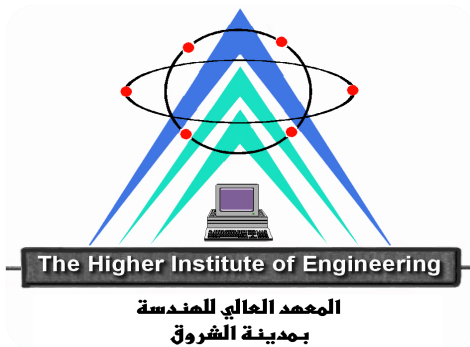
**Head of Department**

**Prof. Dr. Manal Yahya Tawfiq**



Academy Logo

Department Logo

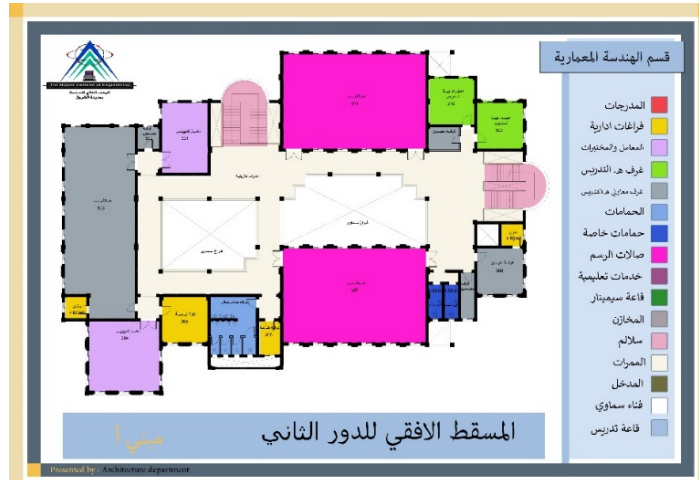


Architectural Engineering Building

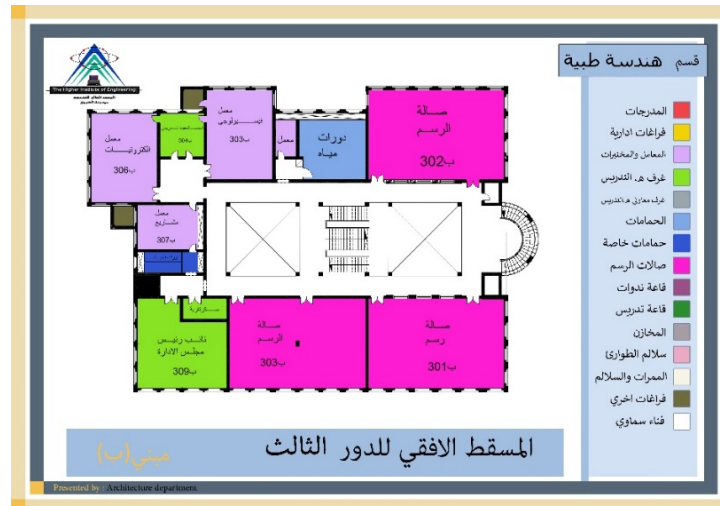
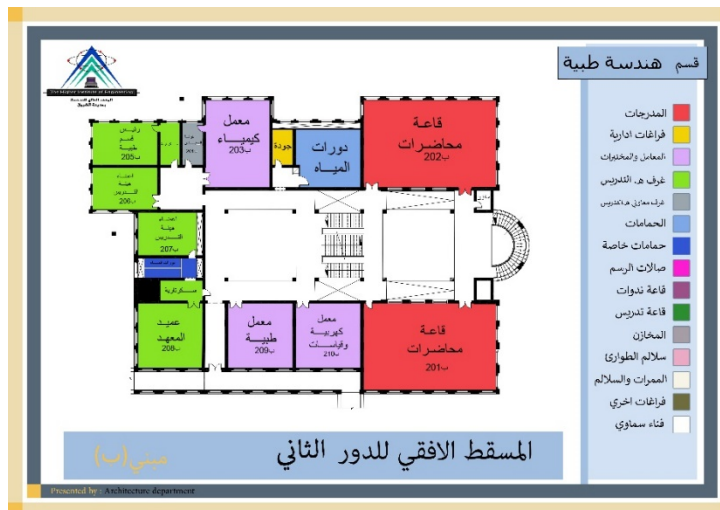
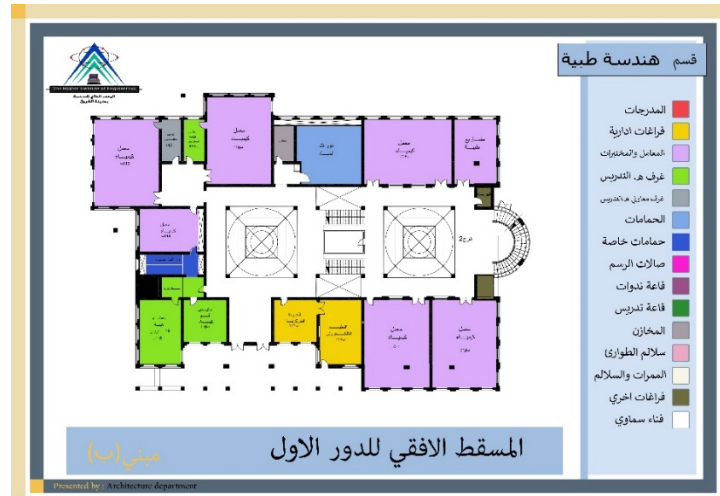


**Architectural Engineering Department Building**

**1- Building A**



## 2- Building B



## **Introduction to the guide**

This guide aims to introduce the student with the basic data and information for the Architectural Engineering Department, which includes the definition of the department, the vision, mission and objectives of the department, the distinctive features of the department, as well as the graduate specifications and fields of work. The guide also includes the departments and units supporting the department, as well as the curricula of the 2013 and 2019 regulations according to what is available in the study regulations.

### **First: Basic information about the department**

**Name of the institution to which the department is affiliated:** Higher Institute of Engineering in EL-Shorouk.

**Type of institution:** Private higher institute with fees.

**Name of the university / academy affiliated to the institution:** The institute is affiliated to the Ministry of Higher Education and Scientific Research.

**Name of the scientific department to which the department is affiliated:** Architectural Engineering

**Date of establishment:** 1995

**Duration of study:** Five (5) years

**Language of study:** English

**Geographical location:** Cairo Governorate EL- Shorouk City – EL-Nakhil Suburb - P.O. Box 3 - Telephone 19644

**Website:** [www.hie.sha.edu.eg](http://www.hie.sha.edu.eg)



## **Second: definition of the department**

Architectural engineering is a field that integrates architectural design with construction, grounded in core sciences, applied research, and economic principles. The continuous global development and expansion of cities highlight the crucial role of architectural engineers (or architects) in shaping the future of urban spaces. These professionals address real-world challenges by applying their expertise, experience, and skills to find optimal solutions. Through their work, they contribute to enhancing the quality of life, creating innovative, efficient, safer, cleaner, and more comfortable environments for daily human use. Their efforts drive progress through advancements in design, manufacturing, and construction.

The department's goal is to equip students to excel as architects in both the Egyptian and global labor markets. This is achieved by providing them with the necessary knowledge and skills to address the evolving architectural and urban challenges of society, as well as to manage environmental issues, available resources, and modern technology. The curriculum includes 72 (70) theoretical and practical courses, along with two summer field training sessions, totaling 250 continuous hours. Throughout this time, students engage in dynamic teaching and learning experiences.

The department also prepares students to contribute to various specialized research areas that support societal development and sustainable growth. It focuses on enhancing students' personal and professional abilities, enabling them to become responsible individuals who can work under pressure, collaborate effectively as part of a team, and pursue lifelong learning. This approach helps them achieve the desired standards of success and equips them to tackle challenges in both the labor market and community engagement. In line with this, the department creates a supportive environment for students by offering robust institutional resources, effective tools, and a comprehensive database that includes references available in the institute's library and professors' lectures. Additionally, it provides an accessible information network to facilitate communication.

## **Third: Vision, Mission and Objectives of the Department**

### **(1) Department Vision**

The aim is to develop the program into one of the top architectural programs both locally and regionally, while also providing the labor market with highly skilled and exceptional graduates, both academically and professionally.

## (2) Department Mission

- Preparing creative architects familiar with modern science and technologies to cope with the labor market needs.
- Prepare qualified alumni can share in the social charities within the scope of sustainable development.
- Develop the Capability of scientific research and self- learning for the students.

## (3) Department Objectives

### (3-1) General Objectives of the Department

- 1. prepare specialized alumnus in the field of architecture and planning that cope with the needs of the national and the international labor market, through the following means:**
  - rehabilitate the student within knowledge, skills, tools and capabilities that can help him in designing and implementing architectural, urban and planning projects in the scope of sustainable development.
  - improving the spirit of the teamwork of the students in the different courses.
  - sharing in the social charities and demolishing sense of the personal tasks.
- 2. the ability to face the professional challenges of the future resulting from the fast technological development in all life aspects, through the following means:**
  - displaying the latest topics and projects in relation to logic and the engineering knowledge.
  - rehabilitate the student to be in contact with the latest programs of design, planning and simulation, as to cope with the era and its fast development.
  - -develop the student skills and abilities to finish his tasks in the scope of technological development.
- 3. Develop the creativity of the student, his competitive spirit and his ability to attend experiments, through the following means:**
  - support the students with the successive principles and standards for architectural design and planning.
  - concentrate on the applicable fields that directly attach the human life.
  - -display single and team work creative projects that support the solution of real or virtual problems.

**4. Rehabilitate the student to resume the educational message and the scientific research after his graduation, through the following means:**

- support the student with the bases of the scientific research and give him the Guide to conduct the applicable studies as means of joining the theories with the applications.
- Enhance the role of research and studies to solve the problems of the surrounding society and develop the nation's economy.

**(3-2) Educational objectives of the department**

1. Investigative the manner and visualize / conceptualize skills in students' work with giving attention to small details, plan and execute research work.
2. Adopt a holistic problem-solving approach for complex, ambiguous, and open- ended challenges and scenarios.
3. Recognize the new role of architectural engineer in social and cultural point of view as the leader of design projects who can understand, assemble, and coordinate all the disciplines to create a sustainable environment.
4. Design project and apply knowledge to understand the context of the architect in the construction industry, including the architect's role in the processes of bidding, procurement of architectural.

**Fourth: Distinctive features of the department**

1. The program belongs to the Higher Sunrise Institute, which is accredited by the National Educational Quality Assurance Authority. The Institute is a member of the Federation of Arab Universities and is a member of the Union of Arab Engineers.
2. The program is concerned with the educational process and its development in line with the digital revolution and the development of curricula in line with this objective. The program's regulation has the advantage of containing basic courses for computer programs required by the labor market and recommended by parties in the labor market and graduates. (e.g. (GIS program description of computer decisions) AutoCAD -Revit- 3Dmax- GIS, the program also provides the student with several workshops in which students use the latest computer software in architectural design such as Parametric Design, a program rarely taught in Egyptian universities - and BIM program Building Information Modeling, training in machinery work - training in the presentation of architectural projects using Animation.

Practical application of these programs is made to graduation projects governed and evaluated by the elite of Egypt's largest architecture professors and Mediterranean countries.

3. The program offers scientific materials in line with the state's vision in the field of sustainable development. The regulation was developed to conform to the state's directions in the field of sustainable development such as the Energy Efficiency in Buildings Course and a Specialized Applied Physics Course. It is concerned with the teaching of nanotechnology and its role in the revision of physical theories associated with the field of lighting and sound - Specialized chemistry rapporteur, which examines the impact of nanotechnology on the chemistry of raw materials and materials used in the field of architecture characterization of energy efficiency decisions in buildings - characterization of an applied chemistry decision and specialized applied physics).
4. The Institute's unique website offers its graduates competitive jobs in the field of architecture and architecture. The program provides students with the opportunity to contact the labor market through field training and post-graduate employment. The Institute has a geographical location close to Suez Canal cities such as Ismailia, Suez and 10 Ramadan and Eastern and transit, Bilbies and Badr City, where a large number of students attend the Institute from all these regions The Institute is located in a new urban area with an urban rise, providing training and employment opportunities in the surrounding areas such as the city of Shorouk and the new administrative capital, Cities - 10th of Ramadan, Al Obour, Badr City program", where a field visit was made to the students of the Third Division at the Executive Design Course in the Administrative Capital.
5. The program offers students international conferences, local conferences, seminars and cultural courses, and a number of workshops that weigh down students' skills and qualify them for the labor market, such as the International Conference (Flexibility in architectural education attended by the President of the International Federation of Architects and the President of the Federation of Mediterranean Architects' States and a number of international architects specializing in architectural work and winning international awards in architecture, Captain of the Architecture Division of the Engineers' Union, President of the Society of Architects, who in their lectures weighed down students with the information and skills required for the local, international and regional labor market.

6. The program provides students with faculty members with experience in the labor market, including signs in the field of architecture and arts. Elite architecture professors in Egypt are seconded. The program also assigns experts with significant professional experience in the field of architectural work.
7. The Institute's ranking of first institutes in the Engineering Sector Committee's ranking is three years in a row.
8. The program provides community services through its distinctive courses and qualifies its children so that they become able to serve the community and the environment.

### **Fifth: Department Graduate Specifications**

#### **(5-1) General Graduate Specifications**

A graduate of the Architectural Engineering Department must be able to do the following:

1. Identify, formulate and solve complex engineering problems by applying the fundamentals of engineering, basic science and mathematics.
2. Develop and conduct appropriate experiments and/or simulations, analyze and interpret data, evaluate and assess results, and use statistical analysis and engineering judgment objectively to draw conclusions.
3. Apply engineering design processes to produce cost-effective solutions that meet specific needs considering global, cultural, social, economic, environmental, ethical and other aspects as appropriate to the discipline and within the principles of and the contexts of sustainable design and development.
4. Use of contemporary technologies, codes of practice and standards, and quality guidelines, health and safety requirements, environmental issues and risk management principles.
5. Realize and distinguish his role in enhancing the engineering field and contributing to the development of the profession and society.
6. Planning, supervising and following up on the implementation of engineering projects, considering the requirements other letters.
7. Work effectively as an individual and as a member of multidisciplinary and multicultural teams.
8. Communicate effectively - graphically, verbally and in writing - with a range of audiences using contemporary tools.
9. Use creative, innovative and flexible thinking and acquire entrepreneurial skills leadership to anticipate and respond to new situations.

10. Acquire and apply new knowledge, practice self-learning, lifelong learning strategies, etc.

### **(5-2) Special specifications for the architectural engineering department graduate**

1. Create architectural, urban and planning designs that meet aesthetic and technical requirements, using adequate knowledge of history, theory, and relevant fine arts, local culture and heritage, technology and humanities.
2. Produce designs that meet the requirements of building users by understanding the relationship between people and buildings, between buildings and their environment, and the need to link buildings and spaces between them, according to human needs and size.
3. Create environmentally responsible designs and preserve and rehabilitate the environment; by understanding structural design, construction, technology and engineering problems associated with designs. buildings.
4. Converting design concepts into buildings and integrating plans into comprehensive planning within project finance constraints, project management, cost control and project delivery methods with adequate knowledge of the industries, organizations, regulations and procedures involved.
5. Preparing design project briefs and documents, understanding the architect's context in construction industry, including the role of the architect in bidding processes purchase of architectural services and production of buildings.

### **Sixth: Fields of work for the department graduate**

The field of specialization in architectural engineering is a broad field, as there are many jobs that the student can work in after graduation, such as:

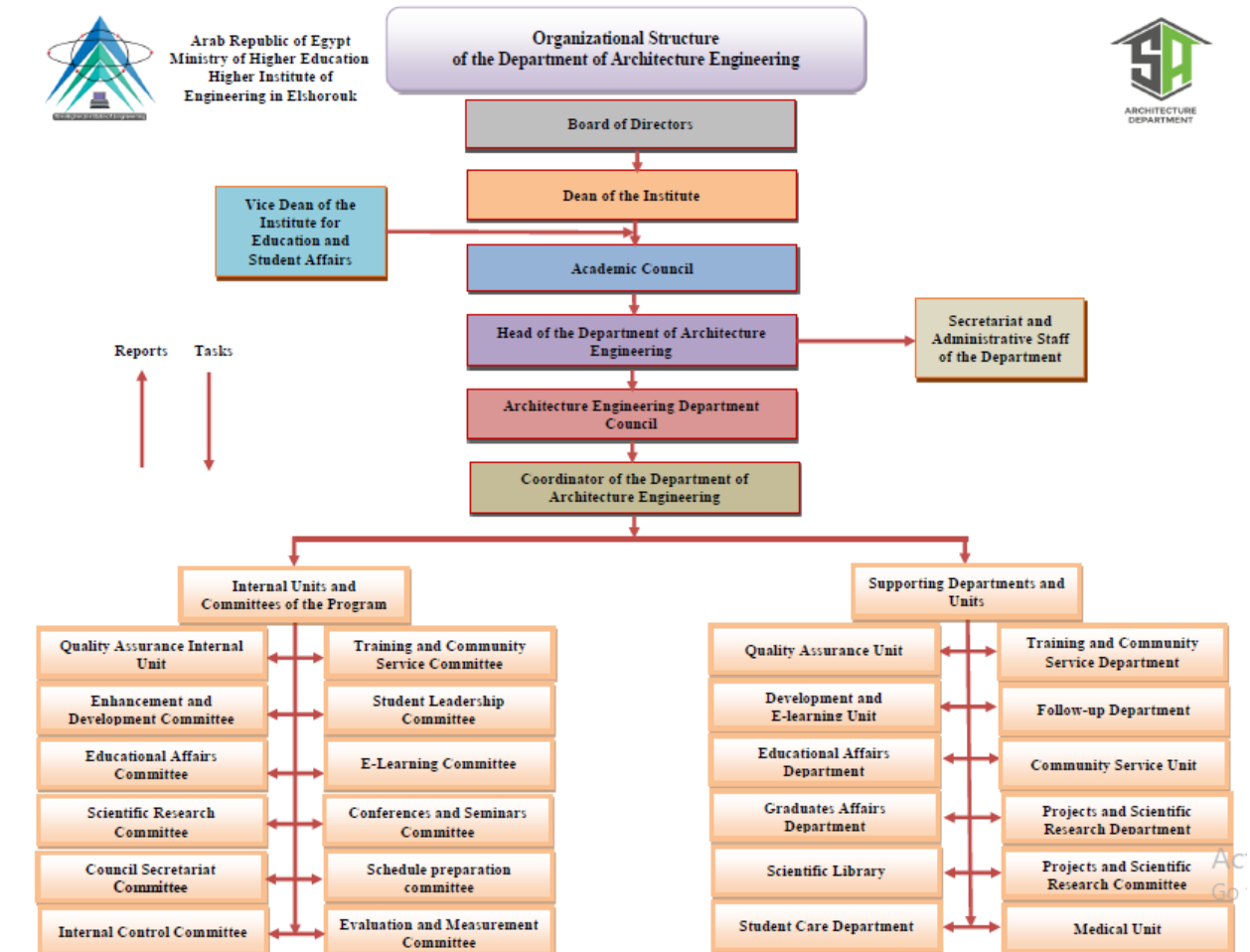
#### **Fields of architectural engineering:**

1. Consulting office works: Architecture offices - Planning offices - Design works - Urban - Integrated Business).
2. interior design works.
3. landscaping works.
4. Real estate investment field.
5. Research Centers Works Building Research - Architecture Planning Residential Studies - Population - Environmental Studies - Advanced Construction Studies).

6. economic and feasibility studies offices for projects of all kinds.
7. quality and modernization bodies.
8. Planning, management and follow-up works.
9. Development programs.

## Seventh: Organizational Structure

### (1) Department of Architectural Engineering



## **(7-1) Program Features**

### **1. Accreditation and Recognition:**

- The program is part of the Higher Institute of Shourouk, the first private institute in Egypt to receive accreditation from the National Authority for Quality Assurance in Education. We are also proud members of the Association of Arab Universities and the Federation of Arab Engineers.

### **2. Innovative Curriculum Development:**

- Our program is dedicated to evolving the educational process in response to the digital revolution, ensuring our curricula are contemporary and relevant.

### **3. Alignment with Sustainable Development:**

- The program offers scientific materials that align with the state's vision for sustainable development, preparing students for the future.

### **4. Strategic Location:**

- The institute's prime location enhances competitive job opportunities for graduates in architecture and urban planning.

### **5. Real-World Experience:**

- Students gain valuable interaction with the labor market through field training opportunities, bridging the gap between theory and practice.

### **6. Enrichment through Seminars:**

- We provide students with seminars and cultural courses, fostering a well-rounded educational experience.

### **7. Experienced Faculty:**

- Our faculty includes experts with extensive experience in the labor market, including prominent figures like Dr. Essam Safi El-Din, ensuring students learn from the best.



## **8. Growing Enrollment:**

- The program has seen an increase in admissions due to its esteemed history since its establishment in 1995, reflecting its reputation for excellence.

## **9. Successful Alumni:**

- Graduates of the program have secured prestigious positions in various fields, showcasing the quality of education they received.

## **10. Top Ranking:**

- For three consecutive years, the institute has been ranked first among its peers in the Engineering Sector Committee's evaluations.

## **11. Community Engagement:**

- The program includes distinguished courses that prepare students to serve society and contribute positively to the environment.

## **12. International Opportunities:**

- Students and graduates have the chance to engage internationally through conferences and competitions, broadening their horizons and professional networks.

**\*\***These features collectively ensure that our program not only equips students with the necessary skills and knowledge but also prepares them to make meaningful contributions to society and excel in their careers.

### (7-2) Faculty Members (Appointed)

Name	Department	Job description
<b>Moataz Mahmoud Tolaba Mohamed Al-Rajabi</b>	Architectural Engineering	<b>Professor – Dean of the Institute</b>
<b>anal Yahya Tawfiq Mohamed</b>	Architectural Engineering	<b>Professor and Head of the Department</b>
<b>Ihab Farouk Mohamed El-Sayed Rashed</b>	Architectural Engineering	<b>Professor</b>
<b>Randa Hassan Mohamed Abdel Khalek</b>	Architectural Engineering	<b>Professor</b>
<b>Hossam Eldin Bahgat Al-Nabawi Al-Rifai</b>	Architectural Engineering	<b>Associated Professor</b>
<b>Maha Fawzy Ali Anbar</b>	Architectural Engineering	<b>Associated Professor</b>
<b>Duaa Wafiq Omar Omar Abdullah Al-Daleel</b>	Architectural Engineering	<b>Instructor</b>
<b>Amr Ahmed Ramadan Al-Johari</b>	Architectural Engineering	<b>Instructor</b>
<b>Rania Abdel Qawi Ahmed Mokhtar Khalifa</b>	Architectural Engineering	<b>Instructor</b>
<b>Mona Mohamed Mohamed Saleh Hassan</b>	Architectural Engineering	<b>Instructor</b>
<b>May Mohamed Abdel Aziz Matarik</b>	Architectural Engineering	<b>Instructor</b>
<b>Eman Metwally Ahmed Metwally</b>	Architectural Engineering	<b>Instructor</b>
<b>Amna Abdel Hafiz Abdel Hamid Nassar</b>	Architectural Engineering	<b>Instructor</b>
<b>Ahmed Hamdy Fouad Ali</b>	Architectural Engineering	<b>Instructor</b>
<b>Engy Sayed Mohamed Ahmed Metwally</b>	Architectural Engineering	<b>Instructor</b>

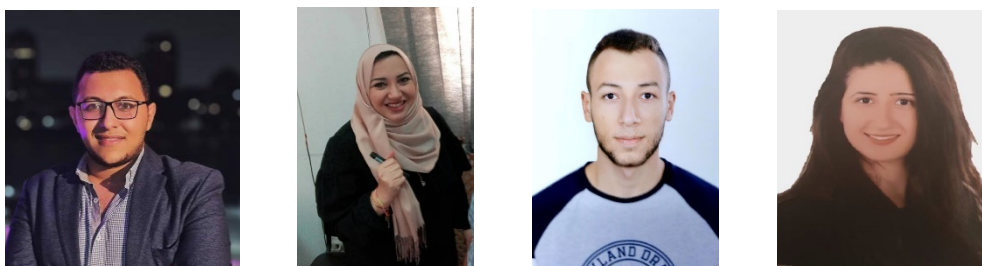
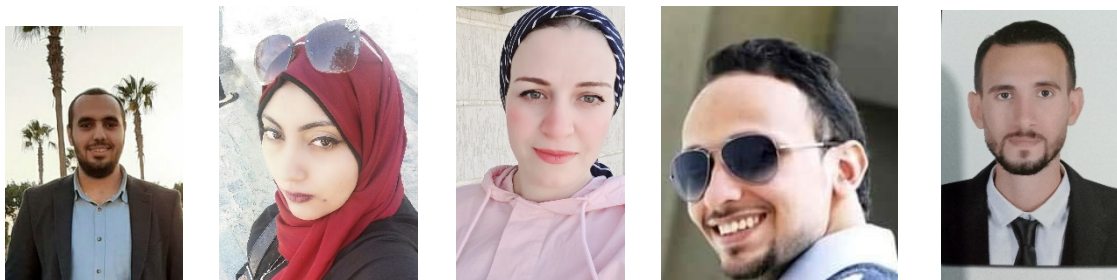
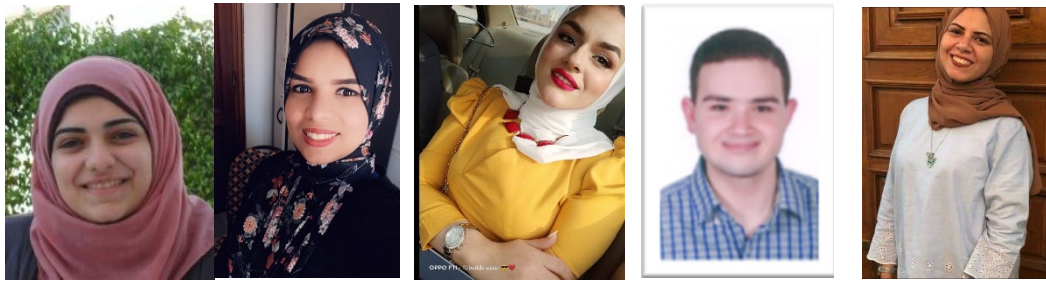
<b>Rania Hosny Yosef Sorial</b>	Architectural Engineering	<b>Instructor</b>
<b>Yara Menshawy Mostafa Bayoumi</b>	Architectural Engineering	<b>Instructor</b>
<b>Micheal Zakaria Email Sharoubim</b>	Architectural Engineering	<b>Instructor</b>
<b>Omnia Fawzy Abdelsalam Khaled</b>	Architectural Engineering	<b>Instructor</b>
<b>Omnia Mohamed Shawky Ahmed Saleh</b>	Architectural Engineering	<b>Instructor</b>
<b>Inas Samir Mohamed Hafiz</b>	Architectural Engineering	<b>Instructor</b>



### **(7-3) Assistant Faculty Members (Appointed)**

<b>Name</b>	<b>Department</b>	<b>Job description</b>
<b>Raghda Adel Abdel Mohsen Salem</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Hend Elsayed Hussien Elsayed</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Hiba Mohamed Naseem Basyouni Al-Shweikh</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Manar Mohamed Saeed Abdel Fattah Hassan</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Christine Ezzat Daniel Beshay</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Noha Afifi Mahmoud Afifi</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Nadia Abdel Aziz Abdel Hamid Mohamed Amer</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Hiba Mahmoud Sayed Fouad</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Ahmed Mustafa Kamel Abdel Rahman</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Mohamed Abdel Karim Ali Khalifa</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Dina Nabil Ibrahim Ramadan</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Lamia Nabil Naseem Mohamed Rabi</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Mirna Wagih Naguib Ayad</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Amna Abdel Hafiz Abdel Hamid Nassar</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Asma Abbas Mohamed Gomaa</b>	Architectural Engineering	<b>Teaching Assistant</b>

<b>Nourhan Kamal Sayed Mohamed Hamed</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Nancy Ahmed Hassan Hassanien</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Marwa Ayman Ahmed Mohi El-Din Mashat</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Rana Osama Mohamed Abdel Halim</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Alaa Ezzat Abdel Kamel Salem</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Shahenda Osama Mahmoud Morsi</b>	Architectural Engineering	<b>Teaching Assistant</b>
<b>Samar Hisham Hamed Emara</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Aya Mohamed Gaber Ali Abdel Wahab</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Ahmed Fathy Mohamed Suleiman Al-Yamani</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Mohamed Zeinhom Abdel Sami Ibrahim Zaimah</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Mariam Ali Abdel Daem Ali</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Omar Ahmed Saied</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Eyad Ashraf Hashem</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Khaled Abdellatif Abdelfatah</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Rasha Abdelhady Abdelhamid</b>	Architectural Engineering	<b>Demonstrator</b>
<b>Fady Nabil Mikhaeel Malika</b>	Architectural Engineering	<b>Demonstrator</b>



## **Eighth: Definition of the department committees**

The department includes seven internal committees as follows:

**1- The Enhancement and Development Committee:** It is responsible for everything related to the review, enhancement and development of curricula, study regulations and laboratories, as well as the plans and reports of the work of the various committees and other works to achieve the improvement of the level of performance.

**2- The Quality Committee:** It is responsible for everything related to the quality work in the department and the preparation and processing for the accreditation of the National Authority for Quality Assurance and Accreditation of Education and files of the engineering sector and others, as well as following up and evaluating the level of performance.

**3- The Educational Affairs Committee:** It is responsible for everything related to the work of educational affairs, from preparing schedules and work of exams and the scientific library and following up the progress of the educational process.

**4- The Training and Community Service Committee:** It is responsible for everything related to the work and procedures of training, as well as activating cooperation and communication with graduates and community institutions.

**5- Student Leadership and Communication Committee:** It is responsible for everything related to students, communicating with them, guiding them, following them up and working to overcome any obstacles they face during their study period, and any other work that would provide a distinguished level of services provided to students.

**6- E-Learning Follow-up Committee:** It is responsible for everything related to the provided electronic services and providing the necessary support to raise the level of electronic services provided.

**7- Projects and Scientific Research Committee:** It is responsible for everything related to research and applied projects, whether graduation projects for students or others, as well as following up research activity.



---

## **Ninth: Departments and units supporting the department**

### **(1) Student Support Unit**

- **How to announce the unit:**

A-Communication with the Student Union to advertise the unit's services.

- **Unit activities**

A- Make special certificates of appreciation for outstanding students and present them in a distinguished ceremony attended by the Chairman of the Board of Directors of the Academy, the Vice Chairman of the Board of Directors of the Academy, the Dean of the Higher Institute of Engineering, the vice dean of the Higher Institute of Engineering, and the heads of departments.

B- Photographing the certificate presentation ceremony for outstanding students to motivate them to study and uploading photos of the celebration on the academy's official website.

C- Conducting make-up lectures for students who recently applied to the institute in the preparatory class in coordination with the Department of Mathematics and Engineering Physics.

D- Conducting make-up lectures for students who have been transferred and are loaded with materials after the issuance of the Clearing Committee's decision in coordination with the Student Affairs Department.

E- Providing the necessary moral and social support to students, whether outstanding or struggling.

### **(2) Education and Student Affairs Department**

Supporting student affairs for the department through tuition fee exemptions and the exemption percentage is based on the type of exemption (social - siblings - academic excellence - grants).

### **(3) Development and E-Learning Unit**

- Preparing students' email and training on the mechanism of use.

- Preparing the e-learning platform (Moodle) with the curricula for faculty members and students to use in the educational process.

- Training students to use the e-learning platform and preparing explanatory videos for that.

- Providing the necessary technical support for students.
- Sending any instructions or correspondence to students.

#### **(4) Scientific Library**

- Arranging books and scientific references in the library for easy access by students.
- Providing the necessary loans for books and scientific references in the library for students.
- Purchasing the necessary books and references based on the needs of the courses and the department.
- Making statistics on the average number of students of the department who visit to study and borrow.

#### **(5) Student Care department**

- Receiving and welcoming new students.
- Organizing student union elections.
- Holding student activities and participating in various tournaments and competitions.

#### **(6) Examination Management**

- Examination preparations include preparing schedules, seating numbers and distributing students.
- Receiving student petitions regarding the grades of the year's work.

#### **(7) Crisis and Disaster Management Unit**

- Providing the necessary precautionary measures, especially during the Covid-19 pandemic, in coordination with the institute's administration to limit the spread of the Covid-19 virus.
- Providing procedures and controls that are applied for the safety of workers and students.
- Spreading awareness of safety and security issues through educational seminars and lectures.
- Following up on fire and alarm equipment and devices in buildings and ensuring their safety.

- Following up and reviewing the procedures followed in the event of a fire, God forbid and reviewing follow up reports on fire extinguishers and alarm devices and their validity.
- Following up cafeterias and visiting them.

### **(8) Follow-up Department**

- Coordination between the department regarding the preparation of study schedules and other departments at the institute, such as providing halls, lecture rooms, etc.
- Following up student attendance in the absence monitoring department and providing reports on student absence rates and notifying them.

### **(9) Legal Affairs Department**

- Settling student disputes by presenting them to the Student Disciplinary Council and imposing appropriate penalties in accordance with the regulations in force in this regard.
- Reviewing the agreements and contracts that are legally implemented, such as the cooperation agreement with the Egyptian Space Agency and the cooperation agreement with Huawei and any other agreements for the benefit of students.

### **(10) Security Department**

- Securing the institute in a way that preserves the safety of all employees, students and facilities.
- Reporting and finding any lost items or financial amounts for students.

### **(11) Transportation Management**

- Providing transportation lines for department employees, including faculty members, support staff, administrative staff, and students.
- Providing any requirements regarding the allocation of cars for the purpose of special missions or errands for the department.

### **(12) Medical Management**

- Providing Covid-19 vaccines for students as part of a cooperation agreement between El- Shorouk Academy and the Ministry of Health and Population.
- Providing medical seminars to raise awareness of Covid-19 and epidemic diseases in coordination with the Crisis and Disaster Management Unit.

- 
- Transferring several students to conduct a Covid-19 virus analysis and swab test after the initial symptoms appear on them. Also, transferring students to external hospitals after conducting a medical examination on them.
  - Providing medical services and first aid to all students.
  - Providing first aid in laboratories and training laboratory specialists on how to use them.

### **(13) Graduate Affairs Unit**

- Preparing, following up, updating and conducting the necessary statistics on graduates' database.
- Preparing a database for institutions and companies related to graduates.
- Documenting communication ties with graduates and relevant institutions by inviting them to scientific and employment forums and any other events that are organized.

## Tenth: Curricula for the Architectural Engineering Department (2013 Regulations)

The following are the subjects taught during this program in the 5 levels of the study:

### (1) Curricula for the Preparatory Year

#### Preparatory year / 1<sup>st</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	
1	PHM 011	Mathematics (1)	2	2	0	4	2	60	0	90	150	0	4	0	0	0	0	0	0
2	PHM 031	Mechanics I	2	2	0	4	2	60	0	90	150	0	4	0	0	0	0	0	0
3	PHM 021	Physics I	2	1	1	4	2	30	30	40	100	0	4	0	0	0	0	0	0
4	ARC 011	Engineering projection drawing (1)	1	3	0	4	2	50	0	50	100	0	0	0	4	0	0	0	0
5	HUM 021	Production Technology	1	1	2	4	2	30	30	40	100	4	0	0	0	0	0	0	0
6	HUM 021	The history of Engineering and Technology	2	0	0	2	2	30	0	70	100	2	0	0	0	0	0	0	0
7	CHE001	Chemistry	2	1	1	4	2	30	30	40	100	0	4	0	0	0	0	0	0
8	HUM 011	Technical English language(1)	0	2	2	4	1	30	0	20	50	2	0	0	0	0	0	0	0
<b>Total</b>			<b>12</b>	<b>12</b>	<b>6</b>	<b>30</b>		<b>310</b>	<b>90</b>	<b>450</b>	<b>850</b>	<b>8</b>	<b>16</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### Preparatory year / 2<sup>nd</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	
1	PHM 012	Mathematics (2)	2	2	0	4	2	60	0	90	150	0	4	0	0	0	0	0	0
2	PHM 032	Mechanics (2)	2	2	0	4	2	60	0	90	150	0	4	0	0	0	0	0	0
3	PHM022	Physics 2	2	1	1	4	2	30	30	40	100	0	4	0	0	0	0	0	0
4	ARC 012	Engineering projection drawing (2)	1	3	4	8	2	45	45	60	150	0	0	0	4	0	0	0	0
5	HUM 012	Technical English language(2)	0	2	2	4	1	30	0	20	50	4	0	0	0	0	0	0	0
6	ECE 001	Course : ICDL	0	0	4	4	-	30	0	20	50	0	0	0	0	4	0	0	0
7	ARC001	Theoretical Drawings and theory of colors (1)	0	3	0	3	2	30	30	40	100	0	0	0	0	0	0	0	3
8	ARC002	Principles of design and architectural drawings	0	4	0	4	2	40	0	60	100	0	0	0	0	0	0	0	4
<b>Total</b>			<b>7</b>	<b>17</b>	<b>11</b>	<b>35</b>		<b>325</b>	<b>105</b>	<b>450</b>	<b>850</b>	<b>4</b>	<b>12</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>7</b>

## (2) Curricula for the First Year

### 1st Year/ 1st term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	
1	ARC121	Architectural Construction(1)	1	4	0	5	3	90	0	60	150			4					
2	ARC111	Scigraphy& perspectives	1	3	0	4	2	60	0	40	100			4					
3	PHM 014	Mathematic and statistics	2	2	0	4	2	60	0	90	150	4							
4	ARC131	Theories of Architecture	1	1	0	2	2	20	0	30	50			2					
5	ARC101	Architectural design (1)	1	5	0	6	5	90	0	60	150				6				
6	HUM1xx	Selective Humanities (1)	2	1	0	3	2	40	0	60	100	3							
7	ARC17x	Selective specified course	1	2	0	3	2	40	0	60	100								3
Total			9	18	0	26		400	0	400	800	3	4	10	6				3

### 1st Year/ 2nd term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	
1	HUM 117	History of Architecture	1	1	0	2	2	20	0	30	50	2							
2	ARC 122	Architectural Construction(2)	1	4	0	5	3	90	0	60	150			4					
3	CIV 134	Survaying	2	1	1	4	2	30	30	40	100			4					
4	ARC 141	Building Technology	1	1	0	2	2	20	0	30	50			2					
5	PHM 034	Mechanical Structure	2	2	0	4	2	60	0	90	150	4							
6	ARC 102	Architectural design (2)	1	5	0	6	5	90	0	60	150				6				
7	ARC 191	Computer app in arch (1)	2	0	3	5	2	45	45	60	150					5			
Total			10	14	4	28		355	75	370	800	2	4	10	6	5			

### 1st year/ third term (Summer Course)

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	
1	ARC103	Field training course (1)	0	0	6	6	0	50	50	0	100	0	0	0	0	0	6	0	0
Total			0	0	6	6	0	50	50	0	100	0	0	0	0	0	6	0	0

### (3) Curricula for the second year

#### 2<sup>nd</sup> Year/ 1<sup>st</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)		
1	HUM 217	History of Architecture (2)	1	1	0	2	2	20	0	30	50	2								
2	ARC 221	Architectural construction (3)	1	3	0	4	3	60	0	40	100			4						
3	CIV 223	Testing and properties of materials	2	1	1	4	2	30	30	40	100			4						
4	CIV 243	concrete and steel construction	4	2	0	6	3	100	0	150	250			6						
5	ARC 261	History and Theories of planning	1	1	0	2	2	20	0	30	50	2								
6	ARC 201	Architectural design (3)	1	5	0	6	5	90	0	60	150				6					
7	ARC 291	Application of computer in Architectural design (2)	2	0	3	5	2	45	45	60	150								5	
Total			12	13	4	29		365	75	410	850	4		14	6	5				

#### 2<sup>nd</sup> Year/ 2<sup>nd</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	Tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management	
1	HUM 218	Project management	2	0	3	5	2	45	45	60	150									5
2	ARC 222	Architectural construction (4)	1	3	0	4	3	60	0	40	100			4						
3	CIV 262	Soil investigation and foundation	2	1	1	4	2	40	0	60	100			4						
4	HUM 2xx	Selective humanities (2)	2	1	0	3	2	40	0	60	100	3								
5	ARC 231	Theories of architecture (2)	1	1	0	2	2	20	0	30	50			2						
6	ARC 202	Architectural design (4)	1	5	0	6	5	90	0	60	150				6					
7	HUM219	Legislation and Contracts	2	0	0	2	2	40	0	60	100	2								
Total			11	11	4	26		335	45	370	750	5		10	6					5

#### 2<sup>nd</sup> year/ third term (Summer Course)

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)		
1	ARC203	Field training course (2)	0	0	6	6	0	50	50	0	100									6
Total			0	0	6	6	0	50	50	0	100									6

#### (4) Curricula for the third year

##### 3rd year/ 1<sup>st</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)		
1	HUM 317	History of Architecture (3)	1	1	0	2	2	20	0	30	50	2								
2	ARC 342	Environmental control	2	1	0	3	2	60	0	40	100			3						
3	ARC 301	Architectural design (5)	1	5	0	6	5	90	0	60	150				6					
4	ARC 351	Working Designs (1)	1	4	0	5	3	90	0	60	150				5					
5	ARC 362	City planning (1)	1	3	0	4	2	60	0	40	100			4						
6	ARC 391	Applications of computer in Rendering	2	0	3	5	2	45	45	60	150					5				
7	ARC 37x	Distinction Course (1)	2	2	0	4	2	90	0	60	150									4
Total			10	16	3	29					850	2		7	11	5				4

##### 3rd year/ 2<sup>nd</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)		
1	ARC 343	Technical Curing for buildings	2	1	0	3	2	40	0	60	100			3						
2	ARC 331	Theories of architecture(3)	1	1	0	2	2	20	0	30	50			2						
3	ARC 302	Architectural Design (6)	0	5	0	5	5	60	0	40	100				6					
4	ARC 352	Working Designs (2)	1	4	0	5	3	90	0	60	150				5					
5	ARC 363	City planning (2)	1	3	0	4	2	60	0	40	100			4						
6	ARC 344	Technical Fixtures and Sainatery	1	3	0	4	2	60	0	40	100			4						
7	ARC 38x	Distinction Course (2)	2	2	0	4	2	90	0	60	150									4
Total			8	19	0	27		420	0	330	750			13	11					4

##### 3rd year/ third term (Summer Course)

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)		
1	ARC303	Field training course (3)	0	0	6	6	0	50	50	0	100				6					
Total			0	0	6	6	0	50	50	0	100				6					



## (5) Curricula for the fourth year

### 4th year/ 1st term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)		
1	ARC 401	Architectural Deesign (7)	1	5	0	6	4	90	0	60	150				6					
2	ARC 451	Working designs (3)	1	4	0	5	3	90	0	60	150				5					
3	ARC 464	Urban Design	1	3	0	4	3	40	0	60	100			4						
4	ARC 465	Regional planning	1	2	1	4	2	30	30	40	100			4						
5	ARC 401	Graduation Project (1)	1	3	0	4	0	100	0	0	100							4		
6	ARC 47x	Distinction course (3)	2	2	0	4	2	90	0	60	150									4
Total			7	19	1	27		440	30	280	750			8	11	3	4	4		

### 4th year/ 2<sup>nd</sup> term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management	
1	ARC 444	Quantities and specifications	2	1	0	3	2	60	0	40	100									2
2	ARC 452	Working designs (4)	1	4	0	5	3	90	0	60	150				5					
3	ARC 402	Graduation Project (2)	0	16	0	16	0	300	100	0	400							16		
4	ARC 491	GIS computer applications	2	0	3	5	2	45	45	60	150				5					
5	ARC 48x	Distinction course (4)	2	2	0	4	2	90	0	60	150								4	
Total			7	23	3	33		585	145	220	950			0	5	5	16	4		2

## Eleventh: Curricula for the Architectural Engineering Department (2019 Regulations)

The following are the subjects taught during this program in the 5 levels of the study

### (1) Curricula for the Preparatory Year

#### Preparatory year / 1<sup>st</sup> term

no.	Code	Course Name	Teaching Hours					Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours	Wr. Exam Dur.	Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des. Comp. App. & Int.	Proj. & Practice	Discretionary (culture of engineering)		
1	PHM 011	Mathematics (1)	2	2	-	4	90	60	-	2	150		4						
2	PHM 013	Physics (1)	2	1	2	5	90	30	30	2	150		5						
3	PHM 015	Mechanics (1)	2	2	-	4	90	60	-	2	150		4						
4	ARC 011	Engineering drawings and projections (1)	1	2	-	3	60	40	-	2	100			3					
5	CHE 011	Chemistry (1)	2	1	1	4	60	20	20	2	100		4						
6	HUM 013	Computer skills	1	-	2	3	30	10	10	2	50	3							
7	HUM 011	Technical English Language	1	-	1	2	30	10	10	1	50	2							
Total			11	8	6	25					750	5	17	3	0	0	0		

#### Preparatory year / 2<sup>nd</sup> term

no.	Code	Course Name	Teaching Hours					Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours	Wr. Exam Dur.	Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des. Comp. App. & Int.	Proj. & Practice	Discretionary (culture of engineering)		
1	PHM 012	Mathematics (2)	2	2	-	4	2	60	-	90	150		4						
2	PHM 014	Physics (2)	2	1	2	5	2	30	30	90	150		5						
3	PHM 016	Mechanics (2)	2	2	-	4	2	60	-	90	150		4						
4	ARC 012	Engineering drawings and projections (2)	1	2	2	5	2	20	20	60	100			5					
5	PHM 017	Technology of production	1	-	2	3	2	15	15	45	75							3	
6	HUM014	History of engineering and technology	2	-	-	2	2	25	-	50	75	2							
7	HUM 011	Technical English Language	1	-	1	2	1	10	10	30	50	2							
Total			11	7	7	25					750	4	13	5	0	0	0	3	

## (2) Curricula for the First Year

### 1st Year/ 1st term

No.	Code	Course Name	Teaching Hours				Mr. Exam Dur.	Marking				Subject Area									
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management		
1	ARC121	Architectural design (1)	1	5	-	6	5	90	-	60	150				6						
2	ARC131	Architectural construction and building technology (1)	2	2	-	4	3	60	-	40	100			4							
3	ARC161	Sygraphy and prespective	1	3	-	4	3	60	-	40	100			4							
4	ARC111	Theories of Architecture(1)	2	-	-	2	2	40	-	60	100			2							
5	PHM141	Statistical analysis	2	-	2	4	2	40	20	40	100	4									
6	CVE 131	Servaying	2	1	-	3	2	40	-	60	100			3							
7	ARC162	Visualization and principles of design and architectural presentation	1	2	-	3	3	60	-	40	100			3							
Total			11	13	2	26					750	0	4	16	6	2	0	0	0	0	0

### 1st Year/ 2nd term

No.	Code	Course Name	Teaching Hours				Mr. Exam Dur.	Marking				Subject Area									
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management		
1	ARC122	Architectural design (2)	1	5	-	6	5	90	-	60	150				6						
2	ARC132	Architectural construction and building technology (2)	2	2	-	4	3	60	-	40	100			4							
3	HUM141	History of Architecture (1)	2	-	-	2	2	40	-	60	100	2									
4	ARC 141	Computer applications in the architectural drawings	1	-	2	3	2	20	10	20	50					3					
5	PHM132	Engineering Modelling	2	2	-	4	3	60	-	40	100	4									
6	CVE132	Mechanics of structures	2	2	-	4	2	40	-	60	100			4							
7	HUM142	Specialized technical English Language	2	1	-	3	2	40	-	60	100	3									
8	ARC134	Field training (1)	-	-	2	2	-	25	25	-	50								2		
Total			12	12	4	28					750	5	4	8	6	3	2	0	0	0	0

### (3) Curricula for the second year

#### 2<sup>nd</sup> Year/ 1<sup>st</sup> term

no.	Code	Course Name	Teaching Hours					Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours	Wr. Exam Dur.	Year Work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management
1	ARC221	Architectural design (3)	1	5	-	6	5	90	-	60	150				6				
2	ARC231	Architectural construction and building technology (3)	2	2	-	4	3	60	-	40	100			4					
3	HUM241	History of Architecture (2)	2	-	-	2	2	40	-	60	100	2							
4	ARC251	The access to the environmental studies	2	-	-	2	2	40	-	60	100						2		
5	PHM241	Specialized chemistry	2	-	1	3	2	40	20	40	100		3						
6	CVE231	Concret and steel constructions	2	2	-	4	3	40	-	60	100			4					
7	HUM 242	History of cith planning	2	-	-	2	2	40	-	60	100	2							
Total			13	9	1	23					750	4	3	8	6	0	0	2	0

#### 2<sup>nd</sup> Year/ 2<sup>nd</sup> term

no.	Code	Course Name	Teaching Hours					Marking				Subject Area							
			Lectures	tutorial	Practical	Total hours	Wr. Exam Dur.	Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management
1	ARC 222	Architectural design (4)	1	5	-	6		90	-	60	150				6				
2	ARC 232	Architectural construction and building technology (4)	2	2	-	4		60	-	40	100			4					
3	ARC 211	Theories of Architecture(2)	2	-	-	2		40	-	60	100			4					
4	CVE 232	Properties and resistance of materials	2	1	-	3		40	-	60	100			3					
5	ARC 241	Computer applications in the architectural presentation	1	-	2	3		20	10	20	50				3				
6	HUM 243	Legislation and contracts	2	1	-	3		40	-	60	100								3
7	CVE 233	Investigation of Soil and foundations	2	2	-	4		40	-	60	100			4					
8	ARC 232	Field training (2)	-	-	2	2		25	25	-	50					2			
Total			12	11	4	27					750	0	0	15	6	3	2	0	3

#### (4) Curricula for the third year

##### 3rd year/ 1<sup>st</sup> term

3rd year/ 1 <sup>st</sup> term																				
no.	Code	Course Name	Teaching Hours					Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours	Wr. Exam Dur.	Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management	
1	ARC 321	Architectural design (5)	1	5	-	6	5	90	-	60	150				6					
2	ARC 331	Working designs (1)	2	2	-	4	4	90	-	60	150				4					
3	HUM 341	History of Architecture (3)	2	-	-	2	2	40	-	60	100	2								
4	ARC 371	City planning (1)	2	1	-	3	3	60	-	40	100			3						
5	ARC372	Geographical information systems (GIS)	2	-	1	3	3	20	10	20	50			3						
6	ARC351	Energy Efficiency in Buildings	2	1	-	3	2	40	-	60	100							3		
7	ARC333	Technical fixtures and treatments in buildings	2	1	-	3	3	40	-	60	100			3						
Total			13	10	1	24					750	2	0	9	10	0	0	3	0	

##### 3rd year/ 2<sup>nd</sup> term

3rd year/ 2 <sup>nd</sup> term																				
no.	Code	Course Name	Teaching Hours					Marking				Subject Area								
			Lectures	tutorial	Practical	Total hours	Wr. Exam Dur.	Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management	
1	ARC 322	Architectural design (6)	1	5	-	6	5	90	-	60	150				6					
2	ARC 332	Working designs (2)	2	2	-	4	4	90	-	60	150				4					
3	ARC311	Theories of Architecture (3)	2	-	-	2	2	40	-	60	100			2						
4	ARC 372	City planning (2)	2	2	-	4	3	60	-	40	100			4						
5	PHM 341	Specified Applied Physics	2	1	1	4	2	40	20	40	100		4							
6	ARC38xx	Elective course (1)	2	-	-	2	2	30	-	20	50									
	ARC 3811	Vernacular and Regional Architecture	2	-	-	2	2	30	-	20	50									
	ARC 3821	Architectural criticism issues	2	-	-	2	2	30	-	20	50							2		
	ARC 3831	Areas of Valuable urbanization	2	-	-	2	2	30	-	20	50									
	ARC 3841	Architecture, culture and heritage	2	-	-	2	2	30	-	20	50									
7	ARC 373	Land scape	2	1	-	3	3	60	-	40	100				3					
Total			13	11	1	25					750	0	4	6	13	0	0	2	0	

## (5) Curricula for the fourth year

### 4th year/ 1st term

no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area									
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management		
1	ARC 421	Architectural design (7)	1	5	-	6	6	90	-	60	150				6						
2	ARC 431	Working designs (3)	2	2	-	4	4	90	-	60	150				4						
3	ARC 471	urban design	2	2	-	4	3	60	-	40	100				4						
4	ARC 472	Regional Planning	2	1	1	4	3	30	30	40	100			4							
5	ARC 422	Graduation project (1)	2	-	-	2	3	60	-	40	100						2				
6	ARC 473	Housing	1	1	-	2	2	20	-	30	50			2							
7	HUM 431	Project mangment	2	-	1	3	2	40	20	40	100										3
Total			12	11	2	25					750	0	0	6	14	2	0				3

### 4th year/ 2<sup>nd</sup> term

4th year/ 2 <sup>nd</sup> term																					
no.	Code	Course Name	Teaching Hours				Wr. Exam Dur.	Marking				Subject Area									
			Lectures	tutorial	Practical	Total hours		Year work	Practical Exam	Written Exam	Total	Hum. & Soc. Sc.	Math. & B. Sc.	B. Eng. Sc.	App. Eng. & Des.	Comp. App. & ICT	Proj. & Practice	Discretionary (culture of engineering)	Project management		
1	ARC 423	Graduation project (2)	3	6	-	9	-	200	150	-	350						9				
2	ARC 432	Working designs (4)	2	2	-	4	5	90	-	60	150				4						
3	ARC 424	Interior design	1	2	-	3	3	60	-	40	100				3						
4	HUM 432	Quantities and specifications	2	1	-	3	2	60	-	40	100										3
5	ARC 48XX	Elective course (2)	2	1	-	3	2	20	-	30	50										
	ARC 4812	Urban and civil conservation	2	1	-	3	2	20	-	30	50										
	ARC 4822	Environmental assessment for the projects	2	1	-	3	2	20	-	30	50									3	
	ARC 4842	Principles of practicing the profession	2	1	-	3	2	20	-	30	50										
	ARC 4832	Urban Management and legislation	2	1	-	3	2	20	-	30	50										
Total			10	12	-	22					750	0	0	7	0	9	3				3

## Twelfth: Equipment

We are excited to announce several initiatives aimed at enhancing our department's resources and educational environment:

### 1. New Model Lab Establishment:

- A new lab dedicated to model-making will be established, along with ongoing improvements to existing labs, ensuring our students have access to state-of-the-art facilities.

### 2. New Visual reality Lab Establishment

- A new lab dedicated to visual reality will be established, along with ongoing improvements to existing labs, ensuring our students have access to state-of-the-art facilities.

### 3. Expanded Library Resources:

- We will increase the number of references available in the library that support the architecture program courses, providing students with essential resources for their studies.

### 4. Enhanced Computer Access:

- The number of computers in faculty and assistant offices will be increased, along with improved internet connectivity, to support a more effective teaching and learning environment.

### 5. Online Lecture Rooms:

- Two additional rooms will be equipped to facilitate online lecture broadcasting directly from the department, enhancing our ability to reach all students.

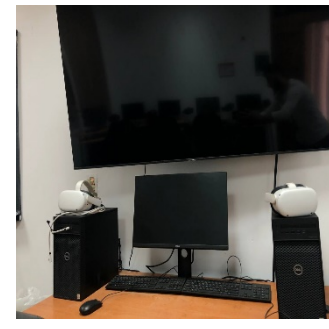
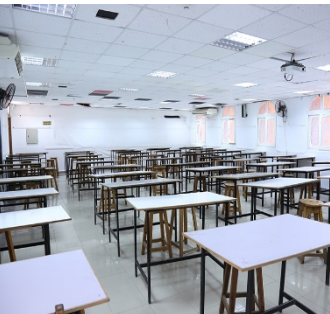
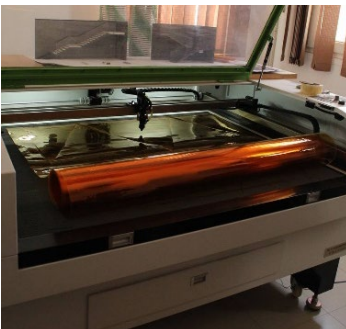
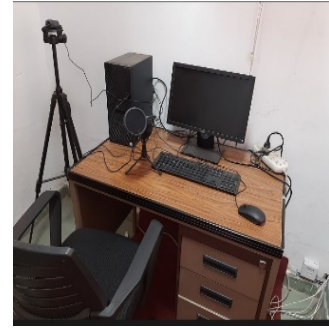
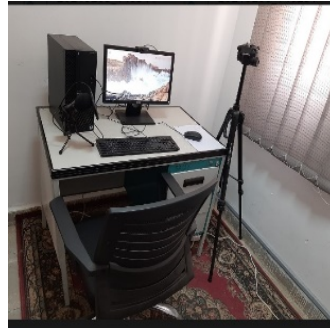
### 6. Upgraded Broadcasting Equipment:

- We will update our devices for broadcasting online lectures and ceremonies, including new cameras to ensure high-quality presentations.

### 7. Increased Internet Capacity:

- The internet capacity for the department will be boosted to 100 megabytes, ensuring smooth connectivity and supporting the educational process more effectively during the academic year 2020/2021.

\*\*These initiatives reflect our ongoing commitment to providing a top-notch educational experience, ensuring our students have the tools and resources they need to excel.





## **Thirteenth: Program Admission Policy**

To maintain the quality of education in specialized departments and to align student interests with their abilities, the Institute's administration has established the following guidelines for admitting preparatory year students into these departments:

The Institute's Board of Directors will set the criteria for admission based on:

1. Eligible subjects for department admission.
2. Priority for admission based on the student's overall grades in the preparatory year.

### **Important Instructions**

- Each student must select six preferences for specializations using the form provided by the Student Affairs Department.
- All students are required to attend their registered classes regularly to avoid losing grades for the academic year.
- Students will be barred from taking exams if their absence exceeds 25%.
- Sick leave will only be accepted if validated by the Institute's doctor and reported within one week of the onset of illness.
- To pass any course, students must achieve at least 30% of the written grade.
- All courses in the preparatory year are graded on a pass/fail basis.

## **Fourteenth: Student Exemptions and Mechanism for Evaluating**

### (14-1) Exemption Regulations for Academic Excellence (Very Good - Excellent)

Students in the first through fourth years during the 2024-2025 academic year are eligible for the following exemptions based on their academic performance:

- Students achieving a **\*\*Very Good\*\*** grade receive a **\*\*5% exemption\*\***.
- Students achieving an **\*\*Excellent\*\*** grade receive a **\*\*10% exemption\*\***.
- Students majoring in a specified program can receive a **\*\*100% exemption\*\*** if they achieve an **\*\*Excellent\*\*** grade, or a **\*\*100% exemption\*\*** for a **\*\*Very Good\*\*** grade.

### (14-2) Sibling Exemptions

Siblings enrolled in the program are entitled to a **\*\*15% exemption\*\***, divided equally among them. Note that these exemptions do not cover additional fees.

### (14-3) Mechanism for Evaluating Struggling Students

- **Monitoring Performance:** The student leadership representative for each group will analyze results from the first periodic exam.
- **Support Plans:** Course professors will be asked to create support plans for struggling students, incorporating extra help sessions in both traditional and online formats, and to include additional exercises in the study schedule.
- **Faculty Support:** The student leadership representative will coordinate with faculty members to ensure office hours are available for students needing extra help.
- **Mid-Semester Follow-Up:** Student performance will be tracked during the mid-semester and second periodic exams, with reports generated to assess student progress.
- **Final Exam Preparation:** There will be follow-up reviews for students prior to final exams.
- **Academic Support Methods:** All course professors will include academic support strategies in their course descriptions and announce them during the first lecture of the semester.

**The department has developed a comprehensive plan to support struggling students and enhance the practical aspects of the courses. Here's an overview of the key initiatives:**

#### **1. Support Courses for Fourth-Year Students:**

- We will activate targeted support courses focused on the use of computer programs and animation to aid fourth-year students in their graduation projects.

#### **2. Practical Hours for Architectural Design Courses:**

- We plan to add two online practical hours for second-year students enrolled in Architectural Design 3 and 4, enhancing their hands-on learning experience.

### **3. Free Online Course for First-Year Students:**

- During the mid-term break, a free online course will be offered to first-year students, addressing common challenges in architectural design, formation courses, and foundational skills

### **4. Office Hours System:**

- Professors and course officials will have designated office hours, with online communication options available, especially during the periods of suspended on-campus activities due to the pandemic.

### **5. End-of-Semester Reviews:**

- We will provide reviews for students at the end of each semester that align with the course descriptions, ensuring clarity and comprehensive understanding of the material covered.

### **6. Student Group Division:**

- Students will be divided into smaller groups to facilitate better comprehension and provide focused academic support.

### **7. Electronic Course Materials:**

- We will continue to provide electronic copies of course lectures on the institute's official website, ensuring accessibility for all students throughout the academic year.

### **8. Scientific Trips and Field Visits:**

- We aim to activate field visits and scientific trips that enhance the practical learning experience, adhering to necessary precautionary measures considering the pandemic by implementing these initiatives, we aim to create a supportive environment that addresses the needs of struggling students while enhancing the practical application of their studies.

**Absolutely! Our commitment to prioritizing the student's interests is at the heart of everything we do. We aim to make each student's experience not just educational but transformative, laying the foundation for a successful and distinguished future. By fostering a supportive and engaging environment, we empower students to thrive academically and personally, helping them realize their full potential. Together, we're shaping a brighter tomorrow for each student!**