جامعة حلوان
Helwan University

كلية الهندسة بالمطرية

Student Guide

2025

Faculty of Engineering in Matareya

Helwan University

Student Guide

2025

Approval of the Faculty Council No. (5) on 20/1/2025

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Part I

Introduction

Part I: Introduction

Some important tips for our students

In the beginning, we welcome students to the Faculty of Engineering in Matareya and we ask God for continued success for them in their lives in the Faculty and after their graduation hopefully fulfilling their hopes and wishes, and to achieve these wishes, students must follow the following:

- Fear God Almighty, and sincerity in seeking knowledge.
- Be in the lecture hall ahead of time, and not be late or absent without a compelling excuse
- Inquire about anything related to the course from the course professor.
- Pay close attention to the place and time of the lecture recorded in the study schedule, and differentiate between the theoretical and practical lecture.
- The undergraduate stage is different from its predecessors
- Changing circumstances requires changing behavior in order to cope
- Concentration helps you learn and cope
- Lectures are part of the scientific method. You have to take responsibility for learning
- Time is the student's capital.
- Waiting times can make a difference if you invest them.
- The time that passes cannot be returned.
- Wasting some time is wasting an available opportunity.

About Helwan University

Helwan University was established on July 26, 1975 by Law No. 70 of 1975, and then the faculties of the university began to gather within the scope of one campus. Helwan University, with its unique non-recurring quality faculties, is considered a unique university among Egyptian universities, as it includes the Faculty of Applied Arts, the Faculty of Art Education, the Faculty of Music Education, and the faculties of fine arts, physical education for boys and girls and home economics are the mother faculties and the corresponding Faculty s emerged from them in other universities, whether in public or private universities. Helwan University is the university of the permanent future and its development represents the advancement of cultures and public arts. The establishment of the university is considered a watershed in the development of the concept of university education in Egypt. Helwan University is located in Ain Helwan on an area of 350 acres, and the foundation stone was laid for its establishment in 1975 and the construction contract for the first phase was signed on 8/1/1985 and since then the construction of buildings, facilities and faculties of Helwan University has begun, which includes 20 faculties, 58 units of a special nature and a number of new facilities. Helwan University includes two faculties of engineering, each of which has its own character and specializations that distinguish it, and it also includes a number of traditional faculties such as science, education, arts, social work, tourism, physical education, art education, music education, fine arts, applied arts, medicine and nursing, which provide services to the community through a distinguished graduate, and also provides distinguished research, advisory and community services, and since the

university settled in its location, interest in the surrounding environment began to be paid to the city of Helwan, the area of Ezbet Al-Walda and Ain Helwan, through conferences Seminars to improve the environment surrounding the university, especially with the presence of cement factories, which have already begun to reconcile their environmental conditions.

Helwan University Logo

The slogan of Helwan University came to adapt the written word and invest music and the rhythm of Arabic letters to achieve the content, as the extension of the letter A in the word University and the word Helwan confirms the sense of glory and sublimation with its bending inward to achieve the meaning and value of containment, and the containment of the corn symbol came as a symbol of science and knowledge to settle this symbol in the heart of the design of the radiation center.

University Leaders

- **Prof. Dr. El-Sayed Ibrahim Kandil**

  President of Helwan University

- **Prof. Dr. / Emad Mohamed Hamada Mohamed Abu El Dahab**

  Vice President for Graduate Studies and Research

- **Prof. Dr. Hossam Mohamed Kamal Mahmoud Rifai**

  Vice President for Education and Student Affairs

- **Prof. Dr. Walid Mohamed Kamal El-Din Al-Srouji**

  Vice President for Community Service and Environmental Development

- **Major General / Mohamed Abdel Hafeez Abu Shaqqa**

  Acting Secretary General of the University

Faculty of Engineering in Matareya

When Helwan University was established, the Faculty of Technology and Education, which was called the Faculty of Technology in Matareya, was annexed to it, and the new internal regulations of the Faculty were applied after its adoption by the Supreme Council of Universities under the name "Faculty of Technology in Matareya" on all academic teams except the final teams in that year, and it supported engineering subjects and courses and taught curricula that keep pace with the finest curricula taught in the faculties of engineering in Egyptian universities, and the first batch of this system graduated in May 1979, and the name of the Faculty became "Faculty of Engineering and Technology", which It was later changed to "Faculty of Engineering in Matareya".

The Faculty of Engineering is located in Matareya in the eastern Ain Shams area, on an area of 11.31 acres with a total area of 47,500 square meters. The Faculty includes 9 buildings on an area of 4.61 acres with a total area of approximately 19,371 square meters used for administrative and educational purposes, while the green spaces in the Faculty are distinguished and include gardens and perennial trees with a total area of 4,317 square meters.

Faculty Vision

Regional excellence and leadership in engineering education and scientific research to serve the community

Faculty Mission

1. Achieving an advanced educational system that keeps pace with the requirements of the labor market
2. Activating the educational and institutional quality assurance system

3. Developing scientific research mechanisms to relate to the current and future needs of the local and regional community.
4. Developing funding sources and financial resources to support the Faculty 's capabilities.

Strategic Objectives of the Faculty

Excellence in educational service.

Excellence in scientific research and innovation.

Excellence in community partnership.

General characteristics of a graduate of the Faculty of Engineering in Matareya

The Faculty seeks to qualify its graduates at the level of all departments to have the following characteristics and abilities:

1. Use mathematics, science, and engineering concepts to solve engineering problems.
2. Conducting experiments and tests, analyzing and interpreting the results.
3. Work in multidisciplinary teams.
4. Define, formulate and solve engineering problems.
5. Commitment to professional and ethical responsibilities.
6. Avoid the harmful effects of engineering solutions to problems.
7. The use of modern technologies in the development of systems and engineering solutions.
8. Ability to work under pressure and ability to manage crises.
9. Ability to self-learning and lifelong learning.

Faculty Administration

- **Prof. Dr. Amr Ahmed Abdel Hady**

  Dean of the Faculty

- **Prof. Dr. Noha Ahmed Nabil Abdel Rahim**

  Vice Dean for Graduate Studies and Research

- **Prof. Dr. Walid Abdulhadi Orabi**

  Vice Dean for Education and Student Service Affairs

- **Prof. Dr. Mohamed Basil Emara**

  Vice Dean for Community Service and Environmental Development

- **Mrs. Manal Al-Faramawy**

  Director General of the Faculty

Programs offered by the Faculty

The Faculty of Engineering in Matareya, Helwan University, offers a variety of engineering programs to cover the needs of the labor market inside and outside the Arab Republic of Egypt, and these programs are managed by department councils and the new programs committee, and these programs are divided into traditional programs and new programs.

Table (1) List of bachelor's programs offered by the Faculty of Engineering in Matareya, Helwan University.

M	genre	Engineering Programs	The scientific department of the program	Programme Division
1	Traditional Programs (Mainstream Programs)	Mechanical Power Engineering	Mechanical Power Engineering	Mechanical Engineering
2		Automotive & Tractor Engineering	Cars & Tractors	
3		Mechanical Design and Materials Engineering	Mechanical Design	
4		Architecture	Architecture	Architecture
5		Civil Engineering	Civil Engineering	Civil Engineering
6	Programs New (New Programs)	Power Engineering	Mechanical Power Engineering	Mechanical Engineering
7		Automotive Mechatronics Engineering	Cars & Tractors	

8		Digital architecture	Architecture	Architecture
9		Structural Engineering	Civil Engineering	Civil Engineering
10		Project Management & Sustainable Construction		

Degrees awarded by the Faculty.

Helwan University, at the request of the Council of the Faculty of Engineering in Matareya, grants the degree of Bachelor of Science in Engineering as follows:

1. **Bachelor of Science in Mechanical Engineering**
   - Mechanical Power Engineering Program
   - Automotive and Tractor Engineering Program
   - Mechanical Design and Materials Engineering Program
   - Power Engineering Program
   - Automotive Mechatronics Engineering Program
2. **Bachelor of Science in Architecture**
   - Architecture Program
   - Digital Architecture Program
3. **Bachelor of Science in Civil Engineering**
   - Civil Engineering Program
   - Structural Engineering Program
   - Project Management and Sustainable Construction Program

The scientific departments of the Faculty and what they teach.

The Faculty of Engineering in Matareya has 6 scientific departments and is responsible for developing the scientific content of the courses in the various programs, and the scientific department is responsible for scientific research for faculty members, developing it and increasing the scientific production of faculty members.

The courses and interests for each department can be listed as follows:

1. Department of Mechanical Power Engineering

- **About the Department of Mechanical Power Engineering**

The Department of Mechanical Power Engineering was founded in 1956 The Department of Mechanical Power Engineering is one of the important branches of engineering, which is interested in studying the sources of natural forces and how to use them optimally or convert them from one image to another and this only comes with a conscious and in-depth study of all sources of natural forces and energies and then lay the foundations and standards for how to use, develop and develop, taking into account the preservation of the environment and added to this interest Constant search for what is new in the means of producing these energies so that they are given wider areas for better use and find safe and modern means to store these energies until the need to benefit from them and keep pace with the development of civilization and science in the discovery of modern methods and areas most applied to achieve the welfare of man so that he is an effective and productive element in his field and from here we realize the extent of the burden that falls on the mechanical power engineer as his work is directly related to the areas of practical and direct application of equipment and machinery Which uses energy permanently.

- **Vision of the Department of Mechanical Power Engineering**

The Department of Mechanical Power Engineering seeks to provide accredited study programs for the undergraduate and postgraduate stages to prepare distinguished cadres in the field of mechanical power engineering that meet the needs of the labor market and effective communication with research centers, institutions and professional companies by maximizing the use of the available capabilities.

- **Message of the Department of Mechanical Power Engineering**

Graduating an engineer specialized in the field of mechanical power engineering capable of competing in the labor market and has full awareness of the needs and problems of society, the environment and professional ethics, in addition to providing programs to raise the capabilities of graduates and provide technical and professional advice as well as providing research opportunities for graduate students that contribute to solving industrial problems and advancing to the international level.

- **Specialties of the Department of Mechanical Power Engineering**

1	Turbomachines and power stations
2	Fluid mechanics
3	Internal combustion
4	Continuous combustion
5	Air conditioning and refrigeration
6	Heat transfer
7	New and renewable energies
8	Hydraulic and pneumatic control
9	Thermodynamics

2. Department of Automotive and Tractor Engineering

- **About the Department of Automotive and Tractor Engineering**

The Department of Automotive and Tractor Engineering was established at the Faculty of Engineering in Matareya, Helwan University, with the beginning of the establishment of Helwan University in 1976/1977, and before the Automotive and Tractor Program existed as a division of the Department of Mechanical Engineering.

The presence of a huge number of vehicles, driving within the cities and villages of the Arab Republic of Egypt and equipped with the latest technologies in the field of vehicle industry, confirms the need for an automotive and tractor engineering program in the faculties of engineering, especially since the number of vehicles is increasing significantly, in order to graduate engineers specializing in cars and tractors, as these engineers graduate from the program train a huge number of highly skilled technical workers trained to carry out maintenance and repair of advanced technical systems contained in the increasing number of vehicles.

- **Automotive and Tractor Engineering Department Message**

" Qualifying the graduates of the program to enable them to keep pace with modern and rapid technological development. The program should provide its graduate with scientific knowledge, self-learning methods, practical and behavioral skills to be competitive. The program should meet the requirements of the local, regional and international labor market. The programme should diversify sources of funding and endogenous financial resources to support its activities. The program also aims to provide distinguished research service and establish advanced consulting centers and research laboratories that contribute to the development of society and its needs."

- **the Department of Automotive and Tractor Specialties of Engineering**

1	Off Road Vehicles Engineering
2	Vehicle Maintenance Engineering & advanced maintenance
3	Electric And Hybrid Vehicles Engineering
4	Operation Research and Vehicle Transportation Engineering
5	Vehicle Dynamics Engineering
6	Internal Combustion Engine Engineering

3. Department of Architectural Engineering

- **Mission of the Department of Architecture**

Providing an academic environment at a high educational level to prepare distinguished graduates and pioneers in the field of architecture to develop scientific knowledge and creative skills to meet the requirements of society and the local and regional labor market through the application of quality standards to achieve competition locally and regionally.

- **Specializations of the Department of Architectural Engineering**

1	Architectural Design and Climatic Environmental Design -Environment	**2**	Urban Planning
3	-Urban Design -Architectural Design Urban Design	**4**	Architectural -Architecture Coordination
5	Building Science and Technology	**6**	Illustrations & Audio
7	Regional and Urban Planning	**8**	Architectural construction and project management
9	housing	**10**	Town Planning
11	Theories of architecture	**12**	Digital Design
13	Nanotechnology applications in architecture		

4. Department of Civil Engineering

- **About the Department of Civil Engineering**

The Department of Civil Engineering was opened at the Faculty of Engineering, Helwan University in 1986 depending on the Department of Structural Sciences, which was located in the Faculty of Fine Arts in Zamalek, and since then this department has grown to be in the period and time of the largest department in the faculty in terms of the number of faculty members and the number of students enrolled in it at the Faculty level, but one of the largest departments at the university level and during this brief period, which did not exceed three decades and achieved many successes.

- **Vision of the Department of Civil Engineering**

Through the vision of the Faculty, the Department of Civil Engineering seeks to provide distinguished educational study programs in terms of quality and modernity, as it seeks to have distinguished applied research schools in the sciences of construction, building, water, transportation, traffic and environmental protection.

- **Civil Engineering Department Mission**

Within the framework of the mission of the Faculty , the Department of Civil Engineering is committed to preparing civil engineers in a distinguished preparation that meets the needs of the labor market in Egypt and the Arab region, and is committed to seeking leadership in the department's research schools so that research in them keeps pace with global developments and works to transfer and localize science, knowledge and technology in the fields of building and construction (design and executive), water engineering, utilities, transportation and traffic engineering and environmental protection.

- **Civil Engineering Department Specialties**

1	Geotechnical & foundation engineering
2	Reinforced concrete
3	Project management
4	Steel structures
5	Properties & Strength of materials
6	Theory of structures
7	Road & Airport engineering
8	Surveying
9	Saintry & environmental engineering
	Irrigation & hydraulic engineering

5. Department of Mechanical Design and Materials Engineering

- **Specializations of the Department of Mechanical Design and Materials Engineering**

1	Material science and engineering
2	Design of mechanical equipment and systems
3	Machine dynamics
4	Stress analysis
5	Mechanical vibrations
6	Tribology
7	Computer Aided Design and Manufacturing
8	Renewal energy systems
9	Maintenance of mechanical equipment
10	Signal analysis
11	Optimal control

6. Department of Physics and Engineering Mathematics

The department was established by Ministerial Resolution No. (1728) dated (28/12/1998) and it is an academic department from which students do not graduate and is interested in teaching the following courses:

Mathematics – Physics – Mechanics – Chemistry – Computer and Programming Applications – Numerical Analysis – Engineering Systems and Statistics – Process Research.

- **of Physics and Specializations of the Department Engineering Mathematics**

1	Descriptive Geometry
2	Engineering Mathematics
3	Engineering Physics
4	Engineering Mechanics
5	Engineering computers
6	Engineering Chemistry

Some data about the Faculty :

1. **Number of programs available at the Faculty of Engineering in Matareya:**

Two-Semester System		**Credit Hours System**	
M	**Program**	**M**	**Program**
1	Mechanical Power Engineering	**1**	Energy Engineering
2	Car and tractor engineering	**2**	Structural Engineering
3	Architecture	**3**	Digital Technology Architecture
4	Civil Engineering	**4**	Automotive Engineering Program
5	Mechanical and Materials Design Engineering	**5**	Project Management and Sustainable Construction Program

2. **Number of administrative units**

1. Finance	**2. Counseling Center**	**3. Treasury**	**4. Theater Management**
5. Secretariat of the Faculty	**6. Education and Student**	**7. Alumni Affairs**	**8. Automation**

Council	Affairs		Management
9. Exam Management	10. purchases	11. Youth Welfare Department	12. Stores
13. Personnel Affairs	14. Benefits and pensions	15. Faculty Members Affairs	16. Archive
17. Graduate	18. Cultural Relations	19. Imaging Unit	20. Quality Assurance Unit
21. Evaluation and Measuremen t Unit	22. Statistics Unit	23. IT Unit	24. Computer Maintenance Unit
25. Training Unit	26. Library Unit	27. Garage	28. modulus
29. Workshops	30. Electricity		

3. Number of buildings and classrooms

M	The building	Halls & Notes
1	Abd El , Razek Amphitheater Building	Only one auditorium
		Some offices for youth welfare
2	Auditorium Building	4 Stands
		Roads Lab
3	Administration Building	Most Administrative Offices
		auditoriums and one classroom only ٢
4	Mechanics Building	It has administrative offices
		4 drawing rooms + 2 classrooms
		computer labs + a number of labs ٢
5	Building Building	10 drawing rooms + 4 classrooms
		A number of administrative offices
6	Academic	Many halls serve program students

	building or credit building	A number of administrative offices
7	Workshops Building	1 auditorium
		A number of laboratories and workshops
8	Concrete Building	Concrete Plant
		Number of classrooms
		A number of administrative offices

4. Statistics of the number and names of laboratories in the Faculty

M	Lab Name	Competent Department
1	Material Resistance and Testing Laboratory	Department of Mechanical Design
2	Collapse Analysis Laboratory	
3	Stress Analysis Laboratory	
4	Mechanical Vibration Laboratory	
5	Fluid Lab	Department of Mechanical Power Engineering
6	Continuous Combustion Plant	
7	Internal Combustion Plant	
8	Thermodynamics Laboratory	
9	Laser Lab	
10	Refrigeration and air conditioning plant	
11	Turbomachinery and power stations factory	
12	New and renewable energy plant	
13	Heat transfer plant	
14	Control Lab	

15	Measurements Lab	
16	Automotive Engineering Lab	Department of Automotive and Tractor Engineering
17	Car Maintenance Lab	
18	Soil Mechanics and Foundation Laboratory	Department of Civil Engineering
19	Properties Lab Material	
20	Reinforced Concrete Plant	
21	Hydraulics Lab	
22	Surveying Lab	
23	Sanitary Engineering Laboratory	
24	Road Engineering Lab	
25	Physics Lab	Department of Engineering Physics and Mathematics
26	Chemistry Lab	
27	Computer Labs	General

5. **Preparing faculty members who are on the job in each department**

	Preparation of the teaching staff and the assisting body in the scientific department					
Faculty Members	Please	Cars	Building	civil	design	Physics and sports
Emeritus Professor	١٠	١٠	٣	٣٠	٤	2
teacher	١٢	٨	٢٠	٢٠	١٣	11
Assistant Professor	١٠	٣	١١	١٤	٥	8
Professor	٤	٥	٥	٧	٢	3
Teaching assistant	٢٠	١٠	١٤	٢٩	٧	11

Assistant Lecturer	١٧	٦	٥	٢٨	١٠	7
Total	٧٣	٤٢	٥٨	١٢٨	٤١	42

6. Number of students in departments

Scientific Department	Settings	First Year	Second Division	Third Division	Fourth Year	Total in each section
Mechanical Power Engineering	٨٢٨	٣٩٦	٤٤٦	٣٣٥	٣٥١	1528
Cars & Tractors		٢٠١	١١٦	٩٦	١٠١	514
Architecture		١٤٧	١٨٢	١٢٩	١٣٩	597
Civil Engineering		٢٩٦	١٦٩	٢١٩	٣٣١	1015
Mechanical Design		١٣٦	١٦	٨	٠	160
Total in each band	٨٢٨	١١٧٦	٩٢٩	٧٨٧	٩٢٢	4642

7. Number of students in programs

Program	Number of students Current program
Power Engineering	283
Structural Engineering	176
Automotive Mechatronics Engineering	197
Management & Sustainable Construction Project	191
Digital architecture	113
Total	**960**

Part II

Articles of the Two-Semester System Regulations

Chapter II: Articles of the Regulations of the Two Chapters System

1. **Mechanical Power Engineering Program**
2. **Automotive and Tractor Engineering Program**
3. **Architecture Program**
4. **Civil Engineering Program**
5. **Engineering Design and Materials Mechanical Program**

Table ١: Mechanical Power Engineering Courses and Credit Hours

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
1	BSE011	Engineering 1-Mathematics	٣	رياضيات هندسية - ١	2	BSE013	1-Physics	٣	فيزياء-١
3	BSE015	Engineering Statics	2	استاتيكا هندسية	4	HUM001	History of Engineering & Technology	1	تاريخ الهندسة والتكنولوجيا
5	HUM002	Human rights	1	حقوق الإنسان	6	MDE001	Engineering Drawing & Projection	٢	الرسم الهندسي والاسقاط
7	MDE002	Production Technology	٣	تكنولوجيا الانتاج	8	BSE012	Engineering 2-Mathematics	٣	رياضيات -٢
9	BSE014	2-Physics	٣	فيزياء -٢	10	BSE016	Eng. Dynamics	2	ديناميكا هندسية
11	BSE017	Engineering Chemistry	٣	كيمياء هندسية	12	MDE003	Engineering Drawing & Projection (with PC)	٢	الرسم الهندسي والاسقاط (باستخدام الحاسب)
13	HUM003	Topics in Energy, Water& Environment	2	موضوعات في الطاقة والمياه والبيئة	14	BSE101	Engineering Mathematics-3	3	رياضيات هندسية-٣
15	BSE102	Physics-3	2	فيزياء-٣	16	MDE101	Mechanical drawing with PC	3	رسم ميكانيكي بالحاسب
17	MPE101	Thermodynamics1	3	ديناميكا حرارية-١	18	HUM101	English Technical Language	1	لغة إنجليزية فنية
19	MDE102	Material Science	3	علم المواد	20	HUM102	Report writing	2	كتابة تقارير
21	BSE112	Statistics	2	الإحصاء	22	MPE103	Fluid Mechanics-1	3	ميكانيكا الموائع-١
23	MPE104	Thermodynamics-2	3	ديناميكا حرارية-٢	24	HUM12x	Elective (1)	2	اختيارى-١
25	MDE104	Stress Analysis	3	تحليل الإجهادات	26	HUM104	Health and Safety	1	السلامة والامن
27	MPE201	Heat Transfer-1	3	انتقال الحرارة-١	28	MPE202	Fluid Mechanics-2	3	ميكانيكا الموائع-٢
29	EPE201	Electrical Engineering	3	هندسة كهربية	30	MPE203	Modeling and Simulation	3	النمذجة والمحاكاة
31	MPE204	Engineering Measurements	3	قياسات هندسية	32	MDE201	Kinematics and Dynamics of Machinery	3	الحركية وديناميات الآلات

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
33	MFT001	Practical Training-1*	1	تدريب عملى-١	34	ICT201	Numerical Analysis	3	تحليل عددي
35	MDE202	Mechanical Design	3	تصميم ميكانيكي	36	MPE205	Heat transfer-2	3	انتقال الحرارة-٢
37	HUM205	Communication and Presentation Skills	2	مهارات الاتصال والعرض	38	HUM22x	Elective (2)	2	اختيارى-٢
39	MPE206	Automatic Control	3	تحكم الى	40	ECE202	Electronic Engineering	2	هندسة إلكترونية
41	ICT301	Programing Applications in Mechanical Engineering	2	تطبيقات البرمجة في الهندسة الميكانيكية	42	MPE301	Turbomachinery	3	الآلات توربينية
43	MDE301	Computer Aided Design	3	التصميم بمساعدة الحاسب	44	EPE301	Electric Machines	3	الآلات كهربية
45	MPE302	Refrigeration and Air-Conditioning	3	التبريد وتكييف الهواء	46	HUM301	Accounting	2	محاسبة
47	MFT002	Practical Training-2	1	تدريب عملى-٢	48	MPE305	Combustion	3	احتراق
49	MDE33x	Elective-3	3	اختيارى-٣	50	HUM302	Engineering Economics	2	اقتصاد هندسي
51	MPE308	Mechatronic Engineering	3	هندسة الميكاترونيك	52	HUM303	Project Management	2	إدارة مشروعات
53	MPE309	Fundamentals of Renewable Energy	3	أساسيات الطاقات المتجددة	54	MPE44x	Elective-4	3	اختيارى-٤
55	MPE45x	Elective-5	3	اختيارى-٥	56	MPE403	Graduation Project-1	3	مشروع تخرج-١
57	MPE404	Internal Combustion Engines	3	محركات احتراق داخلي	58	MPE405	Power Stations	3	محطات القدرة
59	MPE401	Environmental Impact of Projects	2	الأثر البيني للمشروعات	60	MPE402	Monitoring and Quality Control	2	رقابة وضمان الجودة
61	MPE408	Graduation Project-2	3	مشروع التخرج-٢	62	HUM401	Professional Ethics	1	أخلاقيات المهنة
63	MPE46x	Elective-6	3	اختيارى-٦	64	MPE47x	Elective-7	3	اختيارى-٧
					Total Program Credit Hours			160	إجمالي الساعات المعتمدة المكافئة

Table 2: Automotive and Tractor Engineering Program Courses and Credit Hours

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
1	BSE011	Engineering Mathematics - 1	3	رياضيات هندسية - ١	2	BSE013	Physics - 1	3	فيزياء -١
3	BSE015	Engineering Statics	2	استاتيكا هندسية	4	HUM001	History of Engineering & Technology	1	تاريخ الهندسة والتكنولوجيا
5	HUM002	Human rights	1	حقوق الإنسان	6	MDE001	Engineering Drawing & Projection	2	الرسم الهندسي والاسقاط
7	MDE002	Production Technology	3	تكنولوجيا الانتاج	8	BSE012	Engineering Mathematics -2	3	رياضيات هندسية - ٢
9	BSE014	- 2 Physics	3	فيزياء - ٢	10	BSE016	Eng. Dynamics	2	ديناميكا هندسية
11	BSE017	Engineering Chemistry	3	كيمياء هندسية	12	MDE003	Engineering Drawing & Projection (with PC)	2	الرسم الهندسي والاسقاط (باستخدام الحاسب)
13	HUM003	Topics in Energy, Water& Environment Issues	2	موضوعات في الطاقة والمياه والبيئة	14	BSE101	Engineering Mathematics-3	3	رياضيات هندسية- ٣
15	BSE102	Physics-3	2	فيزياء-٣	16	MDE101	Mechanical drawing with PC	3	رسم ميكانيكي بالحاسب
17	MPE101	Thermodynamics-1	3	ديناميكا حرارية-١	18	HUM101	English Technical Language	1	لغة إنجليزية فنية
19	MDE102	Material Science and Engineering	3	علم وهندسة المواد	20	AUT111	Vehicle Technology -1	2	تكنولوجيا المركبات - ١
21	BSE112	Statistics	2	الإحصاء	22	MPE103	Fluid Mechanics - 1	3	ميكانيكا الموائع-١
23	AUT112	Vehicle Technology - 2	2	تكنولوجيا المركبات - ٢	24	HUM12x	Elective - 1	2	اختياري-١
25	MDE104	Stress Analysis	3	تحليل الإجهادات	26	HUM104	Health and Safety	1	السلامة والأمن
27	HUM105	Communication and Presentation Skills	2	مهارات الاتصال والعرض	28	ICT201	Numerical Analysis	3	تحليل عددي
29	MPE201	Heat Transfer - 1	3	انتقال الحرارة-١	30	AUT231	Vehicle Performance	3	أداء المركبات
31	EPE201	Electrical Engineering	3	هندسة كهربية	32	MPE204	Engineering Measurements	3	قياسات هندسية
33	MDE201	Kinematics and Dynamics of Machinery	3	ديناميكا الآلات	34	AFT001	Practical Training	1	تدريب عملي

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
35	MDE202	Mechanical Design	3	تصميم ميكانيكي	36	AUT252	Traction and Soil Mechanics	2	ميكانيكا الجر والتربة
37	HUM22x	Elective - 2	2	إختيارى-٢	38	AUT213	Automatic Control	3	تحكم آلي
39	ECE202	Electronic Engineering	2	هندسة إلكترونية	40	HUM202	Report Writing	2	كتابة التقارير
41	AUT351	Off-Road Vehicles Performance	3	أداء مركبات الطرق غير الممهدة	42	AUT342	Automotive Electrical and Electronic Systems	3	النظم الكهربية والإلكترونية للمركبات
43	MDE301	Computer Aided Design	3	التصميم بمساعدة الحاسب	44	EPE301	Electric Machines	3	الآلات كهربية
45	MDE31x	Elective - 3	٣	اختياري -٣	46	HUM301	Accounting	2	محاسبة
47	٣١٣AUT	Field Training	1	تدريب ميداني	48	AUT334	Vehicle Dynamics	3	ديناميكا المركبات
49	AUT34x	Elective - 4	2	اختيارى-٤	50	MPE304	Internal Combustion Engines	3	محركات الاحتراق الداخلي
51	HUM302	Engineering Economics	2	اقتصاد هندسي	52	AUT316	Mechatronics	3	ميكاترونيكس
53	HUM303	Project Management	2	إدارة مشروعات	54	AUT45x	Elective - 5	2	اختياري-٥
55	MPE402	Monitoring and Quality Control	2	الرقابة وتوكيد الجودة	56	AUT412	Graduation Project	6	مشروع التخرج
57	AUT423	Automotive Fault Diagnosis	3	تشخيص أعطال السيارات	58	MPE401	Environmental Impact of Projects	2	الأثر البيئي للمشروعات
59	AUT434	Automotive Chassis Design	3	تصميم شاسيه السيارات	60	MPE406	Fundamentals of Renewable Energy	3	أساسيات الطاقة الجديدة والمتجددة
61	AUT435	Automotive Control Systems Design	3	تصميم نظم التحكم في المركبات	62	AUT426	Automotive Maintenance and Repair	3	صيانة وإصلاح المركبات
63	AUT46x	Elective - 6	2	اختياري - ٦	64	AUT428	Transportation Management	3	إدارة النقل
65	HUM401	Professional Ethics	1	أخلاقيات المهنة	66	MDE203	Mechanical Vibrations	3	إهتزازات ميكانيكية
					Total Program Credit Hours		١٦٠		إجمالي الساعات المعتمدة المكافئة

Table 3: Architecture Program Courses and Credit Hours

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
1	BSE011	Engineering Mathematics-1	٣	رياضيات هندسية - ١	2	BSE013	Physics 1	٣	فيزياء-١
3	BSE015	Engineering Statics	2	استاتيكا هندسية	4	HUM001	History of Engineering & Technology	1	تاريخ الهندسة والتكنولوجيا
5	HUM002	Human rights	١	حقوق الإنسان	6	MDE001	Engineering Drawing & Projection	٢	الرسم الهندسي والاسقاط
7	MDE002	Production Technology	٣	تكنولوجيا الانتاج	8	BSE012	Engineering Mathematics-2	٣	رياضيات هندسية-٢
9	BSE014	Physics 2	٣	فيزياء ٢	10	BSE016	Eng. Dynamics	2	ديناميكا هندسية
11	BSE017	Engineering Chemistry	٣	كيمياء هندسية	12	MDE003	Engineering Drawing & Projection (with PC)	٢	الرسم الهندسي والاسقاط (باستخدام الحاسب)
13	HUM003	Topics in Energy, Water& Environment	٢	موضوعات في الطاقة والمياه والبيئة	14	ARC101	Fundamentals of Architectural Design & Drawings	2	أساسيات التصميم والرسم المعماري
15	ARC102	Building Construction & Materials 1	2	الإنشاء المعمارى ومواد البناء ١	16	ARC103	History of Architecture 1	2	تاريخ العمارة ١
17	ARC104	Shade, Shadows & perspective	2	الظل والظلال والمنظور	18	CIV105	Structural Analysis	2	التحليل الإنشائي
19	ARC105	Visual Design	1	التصميم البصرى	20	HUM101	English Technical Language	1	لغة إنجليزية فنية
21	ARC111	Architectural Design 1	4	التصميم المعماري ١	22	ARC112	Building Construction & Materials 2	3	الإنشاء المعمارى ومواد البناء ٢
23	ARC113	Theories of Architecture 1	2	نظريات العمارة ١	24	ICT119	Computer Applications in Architecture 1	2	تطبيقات الحاسب فى العمارة ١
25	ARC114	Architectural Technology	2	تكنولوجيا العمارة	26	BSE119	Modeling and Simulation	2	النمذجة والمحاكاة
27	AFT001	Field Training1	1	تدريب ميدانى-١	28	CIV107	Plane Surveying	2	مساحة مستوية
29	ARC202	Building Construction &	3	الإنشاء المعمارى ومواد البناء ٣	30	ARC201	Architectural Design 2	4	التصميم المعماري ٢

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
		Materials3							
31	HUM21x	Elective 1	2	اختيارى-١	32	ARC203	History of Architecture 2	2	تاريخ العمارة ٢
33	HUM215	Report writing	2	كتابة تقارير	34	CIV209	Reinforced Concrete for Architects	3	الخرسانة المسلحة للمعماريين
35	ARC211	Architectural Design 3	4	التصميم المعماري ٣	36	BSE204	Physics-3 (sound and light)	2	فيزياء-٣
37	ARC213	Theories of Architecture (2)	2	نظريات العمارة ٢	38	ARC212	Building Construction & Materials (4)	3	الإنشاء المعمارى ومواد البناء ٤
39	CIV219	Steel Structures for Architects	3	المنشآت المعدنية للمعماريين	40	ARC214	Environmental Control & Design	3	التحكم البيئي والتصميم
41	HUM22x	Elective (2)	2	اختيارى-٢	42	HUM205	Communication and Presentation Skills	2	مهارات الاتصال والعرض
43	ARC302	Execution Designs 1	3	التصميمات التنفيذية ١	44	ARC301	Architectural Design 4	4	التصميم المعماري ٤
45	ARC342	Urban Design	3	التصميم العمراني	46	ARC341	History & Theories of Planning	2	تاريخ ونظريات التخطيط
47	ARC33x	Elective 3	2	اختياري ٣	48	BSE316	Statistics	3	الإحصاء
49	ARC312	Execution Designs 2	3	التصميمات التنفيذية ٢	50	ARC311	Architectural Design 5	4	التصميم المعماري ٥
51	ICT319	Computer Applications in Architecture 2	2	تطبيقات الحاسب فى العمارة ٢	52	ARC313	Urban Planning 1	3	التخطيط العمراني ١
53	HUM304	Health and Safety	1	السلامة والامن	54	ARC34x	Elective 4	2	اختياري ٤
55	ARC401	Architectural Design 6	4	التصميم المعماري ٦	56	HUM301	Professional Ethics	1	أخلاقيات المهنة
57	ARC403	Urban Planning 2	3	التخطيط العمراني ٢	58	ARC402	Execution Designs 3	3	التصميمات التنفيذية ٣
59	HUM403	Project Management	2	إدارة مشروعات	60	ARC404	Graduation Project studies	١	دراسات مشروع التخرج
61	ARC406	Environmental Impact of Projects	١	الأثر البيئي للمشروعات	62	ARC405	Landscape Design	2	تصميم المواقع

No	Code	Course Title	cr hr.	عنوان المقرر	No	Code	Course Title	cr hr.	عنوان المقرر
63	ARC002	Field Training 2	1	تدريب ميدانى ٢	64	ARC411	Graduation Project	6	مشروع التخرج
65	HUM401	Accounting	2	محاسبة	66	HUM402	Engineering Economics	2	اقتصاد هندسي
67	ARC46x	Elective 6	2	اختياري ٦		ARC45x	Elective 5	2	اختياري ٥
					Total Program Credit Hours			١٦٠	إجمالي الساعات المعتمدة المكافئة

Table 4: Civil Engineering Program Courses and Credit Hours

No	Code	Course Title	Cr. hr.	عنوان المقرر	No	Code	Course Title	Cr. hr.	عنوان المقرر
1	BSE011	Engineering Mathematics1	٣	رياضيات هندسية ١	2	BSE013	Physics 1	٣	فيزياء ١
3	BSE015	Engineering Statics	2	استاتيكا هندسية	4	HUM001	History of Engineering & Technology	1	تاريخ الهندسة والتكنولوجيا
5	HUM002	Human rights	١	حقوق الإنسان	6	MDE001	Engineering Drawing & Projection	٢	الرسم الهندسي والاسقاط
7	MDE002	Production Technology	٣	تكنولوجيا الانتاج	8	BSE012	Engineering Mathematics2	٣	رياضيات ٢
9	BSE014	Physics 2	٣	فيزياء ٢	10	BSE016	Eng. Dynamics	2	ديناميكا هندسية
11	BSE017	Engineering Chemistry	٣	كيمياء هندسية	12	MDE003	Engineering Drawing & Projection PC) (with	٢	الرسم الهندسي والاسقاط (باستخدام الحاسب)
13	HUM003	Topics in Energy, Water & Environment	٢	موضوعات في الطاقة والمياه والبيئة	14	BSE101	Engineering Mathematics-3	3	رياضيات هندسية-٣
15	CIV102	Properties & Strength of Materials	3	خواص ومقاومة المواد ١	16	CIV101	Structural Analysis 1	3	تحليل إنشاءات ١
17	CIV103	Engineering Geology	1	الجيولوجيا الهندسية	18	HUM101	Technical English Language	1	لغة انجليزية فنية
19	CIV122	Plane Surveying	2	المساحة المستوية	20	CIV104	Environmental Impact of Projects	1	الأثر البيئي للمشروعات
21	CIV124	Civil Drawings	2	رسم مدنى	22	CIV123	Structural Analysis 2	3	تحليل إنشاءات ٢
23	ARC126	Architectural Construction	2	إنشاء معماري	24	EPE125	Electrical & Mechanical Engineering	2	هندسة كهربية وميكانيكية
25	HUM105	Communication and Presentation Skills	2	مهارات الاتصال والعرض	26	BSE112	Statistics	2	إحصاء
27	BSE204	Physics-3	2	فيزياء ٣	28	CIV212	Structural Analysis 3	3	تحليل إنشاءات٣
29	CIV213	Properties &	3	خواص ومقاومة	30	CIV214	Topographic	٢	المساحة الطبوغرافية

No	Code	Course Title	Cr. hr.	عنوان المقرر	No	Code	Course Title	Cr. hr.	عنوان المقرر
		Strength of Materials2		مواد٢			Surveying		
31	CIV215	Irrigation & Drainage Engineering	٢	هندسة الري والصرف	32	CIV216	Reinforced Concrete 1	3	خرسانة مسلحة ١
33	CIV217	Construction Projects Management	2	إدارة مشروعات التشييد	34	HUM٤٠١	Professional Ethics	1	أخلاقيات المهنة
35	CFT001	Field Training1	1	تدريب ميداني ١	36	CIV221	Structural Analysis 4	3	تحليل الإنشاءات ٤
37	CIV222	Reinforced Concrete 2	3	خرسانة مسلحة ٢	38	CIV223	Soil Mechanics	3	ميكانيكا التربة
39	CIV224	Photogrammetry & Remote Sensing	2	فوتوجرامترى واستشعار عن بعد	40	CIV225	Fluid Mechanics	٢	ميكانيكا الموائع
41	ICT201	Numerical Analysis	2	تحليل عددي	42	HUM202	Report Writing	٢	كتابة التقارير
43	CIV311	Reinforced Concrete3	3	خرسانة مسلحة ٣	44	CIV312	Steel Structures 1	٢	منشآت معدنية ١
45	CIV313	Soil Mechanics & Foundations	3	ميكانيكا التربة والأساسات	46	CIV314	Structural Analysis 5	2	تحليل إنشاءات ٥
47	CIV315	Hydraulics	3	هيدروليكا	48	CIV316	Engineering Geodesy	2	جيوديسيا هندسية
49	CIV33x	Elective 3	2	اختياري ٣	50	CIV002	Field Training 2	1	تدريب ميداني ٢
51	CIV321	Reinforced Concrete 4	٢	خرسانة مسلحة ٤	52	CIV322	Steel Structures 2	٢	منشآت معدنية٢
53	CIV323	Irrigation Structures Design1	٢	تصميم منشآت الري ١	54	CIV324	Structural Analysis 6	٣	تحليل الإنشاءات ٦
55	CIV325	Transportation Planning & Traffic Engineering	٢	تخطيط نقل وهندسة مرور	56	HUM302	Engineering Economics	2	اقتصاد هندسي
57	CIV34x	Elective 4	2	اختياري ٤	58	HUM104	Health & Safety	1	الصحة والسلامة
59	CIV412	Steel Structures 3	2	منشآت معدنية ٣	60	CIV411	Reinforced Concrete 5	3	خرسانة مسلحة ٥
61	CIV414	Irrigation Structures Design 2	2	تصميم منشآت الري ٢	62	CIV413	Foundation Engineering	3	هندسة الأساسات
63	CIV45x	Elective 5	2	اختياري ٥	64	HUM41x	Elective 1	2	اختياري ١

No	Code	Course Title	Cr. hr.	عنوان المقرر	No	Code	Course Title	Cr. hr.	عنوان المقرر
65	CIV422	Sanitary Engineering	3	الهندسة الصحية	66	CIV415	Roadway Engineering & Airports	3	هندسة الطرق والمطارات
67	HUM301	Accounting	2	محاسبة	68	HUM303	Project Management	2	إدارة مشروعات
69	HUM42x	Elective 2	2	اختياري ٢	70	CIV423	Bidding Specifications & Contracts	2	المواصفات والكميات والعقود
71	CIV426	Graduation Project	4	مشروع التخرج	72	CIV46x	Elective 6	2	اختياري ٦
					Total Program Credit Hours			١٦٠	إجمالي الساعات المعتمدة المكافئة

Table 5: Mechanical Design and Materials Engineering Courses and Credit Hours

No	Code	Course Title	Cr. hr.	عنوان المقرر	No	Code	Course Title	Cr. hr.	عنوان المقرر
1	BSE011	Engineering Mathematics-1	٣	رياضيات هندسية-١	2	BSE013	1-Physics	٣	فيزياء-١
3	BSE015	Engineering Statics	2	استاتيكا هندسية	4	HUM001	History of Engineering & Technology	1	تاريخ الهندسة والتكنولوجيا
5	HUM002	Human rights	١	حقوق الإنسان	6	MDE001	Engineering Drawing & Projection	٢	الرسم الهندسي والاسقاط
7	MDE002	Production Technology	٣	تكنولوجيا الانتاج	8	BSE012	Engineering Mathematics-2	٣	رياضيات هندسية-٢
9	BSE014	2-Physics	٣	فيزياء-٢	10	BSE016	Eng. Dynamics	2	ديناميكا هندسية
11	BSE017	Engineering Chemistry	٣	كيمياء هندسية	12	MDE003	Eng. Drawing & Projection(with PC)	٢	الرسم الهندسي والاسقاط (باستخدام الحاسب)
13	HUM003	Topics in Energy, Water& Environment	2	موضوعات في الطاقة والمياه والبيئة	14	BSE101	Engineering Mathematics-3	3	رياضيات هندسية-٣
15	BSE102	Physics-3	2	الفيزياء ٣	16	MDE101	Mechanical drawing with PC	3	رسم ميكانيكي بالحاسب
17	MPE101	Thermodynamics-1	3	ديناميكا حرارية-١	18	HUM101	English Technical Language	1	لغة إنجليزية فنية
19	MDE102	Material Science	3	علم المواد	20	HUM102	Report writing	2	كتابة تقارير
21	BSE112	Statistics	3	الإحصاء	22	MPE103	Fluid Mechanics-1	3	ميكانيكا الموائع-١
23	MDE105	Computer Aided Manufacturing	3	التصنيع المدعم بالحاسب	24	HUM12x	Elective (1)	2	اختياري-١
25	MDE104	Stress Analysis 1	3	تحليل إجهادات ١	26	HUM104	Health and Safety	1	السلامة والامن
27	ICT201	Numerical Analysis	3	تحليل عددي	28	MPE201	Heat Transfer-1	3	انتقال الحرارة-١
29	MDE202	Stress Analysis 2	3	تحليل إجهادات ٢	30	EPE201	Electrical Engineering	3	هندسة كهربية
31	MPE204	Engineering Measurements	3	قياسات هندسية	32	MDE201	Kinematics and Dynamics of Machinery-1	3	الحركية وديناميكيات الآلات-١

No	Code	Course Title	Cr. hr.	عنوان المقرر	No	Code	Course Title	Cr. hr.	عنوان المقرر
33	MFT001	Practical Training-1	1	تدريب ميدانى -١	34	MDE203	Mechanical Design	3	تصميم ميكانيكي
35	MDE203	Theory & Design of Mechanical Equipment	3	نظرية وتصميم المعدات الميكانيكية	36	HUM205	Communication and Presentation Skills	2	مهارات الاتصال والعرض
37	HUM22x	Elective (2)	2	اختيارى-٢	38	MPE206	Automatic Control	3	تحكم آلى
39	ECE202	Electronic Engineering	2	هندسة إلكترونية	40	MDE302	Mechanical Vibration	3	الاهتزازات الميكانيكية
41	MDE303	Tribology	3	تريبولوجيا	42	MDE301	Computer Aided Design	3	التصميم بمساعدة الحاسب
43	EPE301	Electric Machines	3	الآلات كهربية	44	MDE304	Elasticity & Plasticity	3	مرونة ولدونة
45	HUM301	Accounting	2	محاسبة	46	DFT2	Field Training 2	1	تدريب ميدانى-٢
47	MDE305	Technology of Composite Material	3	تكنولوجيا المواد المركبة	48	MDE32x	Elective-3	3	اختيارى-٣
49	HUM302	Engineering Economics	2	اقتصاد هندسي	50	MPE308	Mechatronic Engineering	3	هندسة الميكاترونيك
51	HUM303	Project Management	2	إدارة مشروعات	52	MPE309	Fundamentals of Renewable Energy	3	أساسيات الطاقة المتجددة
53	MDE44x	Elective 4	3	اختيارى ٤	54	MDE45x	Elective 5	3	اختيارى ٥
55	MDE403	Graduation Project-1	3	مشروع التخرج-١	56	MPE404	Internal Combustion Engines	3	محركات احتراق داخلى
57	MDE405	Fracture Mechanics	3	ميكانيكا الكسور	58	MPE401	Environmental Impact of Projects	2	الأثر البيئي للمشروعات
59	MPE402	Monitoring and Quality Control	2	رقابة وضمان الجودة	60	MDE406	Graduation Project- 2	3	مشروع التخرج-٢
61	HUM401	Professional Ethics	1	أخلاقيات المهنة	62	MPE48x	Elective 6	3	اختيارى ٦
63	MPE49x	Elective-7	3	اختياري-٧					
					Total Program Credit Hours ١٦٠				إجمالي الساعات المعتمدة المكافئة

Distribution of the number of hours for academic programs

The following table No. (17) for each study program summarizes the total number of courses taught by the student and the total hours of contact for the program distributed over lectures, exercise classes, laboratories and workshops. The table also shows the compatibility between each of the programs and what was stated in the frame of reference for designing engineering programs issued by the Engineering Sciences Sector Committee at the Supreme Council of Universities SCU. The table also shows the number of hours equivalent to what the student studied in each of the credit hours system - and the equivalent hours in the European system ECTS - and the total academic load equivalent to the student.

Table 6: Distribution of Contact Hours for Academic Programs

#	Program	NC	BS%	Credits & SWL			Total Contact Hours				% of each Requirement			
				CH	ECTS	SWL	Lec	Tut	Lab	TT	UR	FR	DR	PR
Specialized Programs														
1	Mechanical Power Engineering	64	26	160	320	8000	110	44	87	241	9	26	38	27
2	Automotive Engineering	67	26	160	320	8000	108	58	91	257	8	26	36	30
3	Architectural Engineering	68	19	160	320	8000	97	133	33	263	8	24	41	27
4	Civil Engineering	71	24	160	320	8000	93	133	28	254	8	24	36	32
5	Mechanical Design Engineering	64	23	160	320	8000	111	64	84	259	8	26	38	28
6	Structural Engineering	65	20	160	320	8000	124	82	28	234	8	20	43	29
7	Digital Architecture Eng.	63	20	160	320	8000	70	80	41	191	8	20	43	29
Interdisciplinary Programs														
8	Energy Engineering	64	20	160	320	8000	104	70	59	233	8	20	42	30
9	Automotive Mechatronics Engineering	62	20	160	320	8000	105	45	99	249	8	20	43	29
10	Construction Engineering	74	20	160	267	8000	123	75	33	231	8	20	43	29

NC	Total no of courses	Tut	Tutorial	DR	Discipline Requirement
CH	Credit hour	Lab	Laboratory	PR	Program requirement
ECTS	European credit Transfer system	TT	Total	BS	% of Basic Sciences
SWL	Student work load	UR	University Requirement		
Lec	lecture	FR	Faculty Requirement		

Part III

Important information for the student

Part III: Important Information for the Student

Student Enrollment

Students are enrolled in the Faculty according to the distribution of the Coordination Office and the enrollment is not considered final until after completing the student's papers and signing the medical examination and paying the prescribed tuition fees and each student enrolled in the Faculty is prepared a file containing all his papers and gives the student the identity card that he uses to enter the Faculty and the student has the right to extract all certificates proving the status of his enrollment in the Faculty at his request with the determination of the claimant and the student has the right to obtain the approval of ID card forms and subscription forms Transportation of all kinds.

Suspension of Enrollment

The Faculty Council may suspend the student's enrollment for two consecutive or sporadic academic years during the years of study in the Faculty if he submits an acceptable excuse that prevents him from attending the study, and in case of necessity, the University Council may increase the period of suspension of enrollment.

conscription

- The student enrolled in the Faculty is required to determine his position on recruitment (Maaf led the service temporary exemption recruit) and the Faculty postpones the recruitment of the student until the legal age.

- Upon reaching legal age, the registered student shall be treated as a conscription and suspended until the end of his recruitment.
- If the student wishes to enter the exam of retardation subjects, he must submit an application accompanied by the approval of the recruitment body to enter the exam, as well as students who have opportunities to enter the exam from abroad.
- The recruitment area shall be notified immediately upon the student's graduation, dismissal or abandonment of studies for any reason.

Duration of study and specialization

The study at the Faculty is based on two semesters or the credit hour system. The two-semester system is subject to the following:

1- The number of contact hours per semester is from 25 to 28 hours per week, calculated by adding up the hours of lectures, exercises and practical lessons.

2- The minimum duration of study for obtaining a bachelor's degree is five years (ten semesters) starting with a general preparatory band for all students of the two-semester system.

3- The maximum duration of study shall be in a manner that does not violate the decisions of the University Council and the Law on the Organization of Egyptian Universities.

4- The student in the preparatory year studies humanities and basic science courses to acquire the general skills necessary for every engineer, regardless of his specialization. He also has the opportunity to get acquainted with the different branches ofengineering so that he can make a sound choice for the program

he will join ine, and a committee formed by the Faculty Council supervises the study courses for the preparatory year.

5- The number of credit hours equivalent to the total number of contact hours scheduled for the departments of the Faculty is out of 160 credit hours

6- The specialization is after the preparatory year according to the conditions of coordination of successful students in the preparatory year

7- Students study in the various departments of the Faculty according to what is contained in the articles of the regulations and the schedules of courses contained in the regulations and their content.

Start of study in Faculty and semesters

The academic year is divided into two semesters as follows:

1- First Semester: starts in September and lasts at least 15 weeks

2- Second Semester: Starts in February for at least 15 weeks

The duration of the students' stay in one band and cases of dismissal from the Faculty

It is not permissible for a student to stay in any study group for more than two academic years, followed by years from abroad (except for the preparatory band), in accordance with the decisions of the University Council and the Universities Organization Law in this regard.

Equivalency of some courses

The student may be exempted within 96 credit hours equivalent in the bachelor's degree from attending some courses or from taking exams in them, except for the courses and exams of the final teams, if it is

proven that he has successfully passed equivalent courses in a university Faculty recognized by the Supreme Council. For universities, the exemption shall be by a decision of the President of the University after obtaining the approval of the Council of Education and Student Affairs based on the proposal of the Faculty Council after taking the opinion of the Scientific Department Council or the competent department councils, without prejudice to the corresponding articles in the Egyptian Universities Organization Law.

Field Training

1- The study period includes field and practical training inside or outside the Faculty , in order to identify how to apply practically what the student is studying and to reduce the gap between theoretical study and practical application, no less than twice during the study period.

2- The duration of field training (internal / external) must not be less than 6 weeks at a time, the first of which is during the summer semester after the first or second year, and the second time during the summer semester after the third year, in a field of specialization

3- At the end of the training, the student submits a certificate approved by the place of training and a report to be presented to a specialized committee in each scientific department according to dates determined by the scientific department during the next academic year.

4- The Faculty Council issues the executive regulations for the training of students, based on the recommendations of the councils of competent scientific departments.

5- The training is a course that the student must pass.

Graduation Project

1- The students of the fourth year prepare the bachelor's project and the councils of the competent departments determine its topics, which are preferably in the field of national and societal interests and encourage innovation in a modern field within the scope of the department's specializations.
2- The project allocates an appropriate time space in the study schedule according to what is contained in the programs of the department, and the work on the project extends for a period of 4 weeks after the end of the written exams for the second semester.
3- The bachelor's project is governed by committees formed by the councils of the scientific departments of the specialized members of the department and may include experienced personalities from outside the Faculty and the university as external examiners - and the student's appreciation and specialization of the project are written in the graduation certificate.
4- The undergraduate project includes a printed output (project report and/or thesis, engineering boards and/or experimental models... etc) according to the requirements of the program and what the departmental councils see, and a presentation of the subject of the project and what has been studied (Poster) in addition to an explanatory board and the results reached before the jury
5- In some cases, more than one student can participate in one project after obtaining the approval of the department council.

Exam dates and announcement of results

1- The transfer and bachelor's exams are held at the end of each semester in the courses that the student studied in his band, and the exam may be held electronically in one or more courses, and the exam may be held in all or part of the course to allow it to be corrected electronically, provided that this is presented to the Council of Education and Student Affairs at the university for approval and submission to the University Council for approval.

2- The result of the January round is announced a maximum of three weeks after its end date.

3- The result of Mayo's role is announced a maximum of three weeks after its end date.

4- The September round is held for all the following cases of failure:

- The student transferred to a higher band and loaded with a maximum of two courses from the previous band or any band beforeit.
- A bachelor's student who fails or is absent with or without an excuse in one or two courses that do not include the graduation project.
- In all the cases mentioned, exams are generally prepared according to the last curriculum taught.

5- It is required for the student to enter the exam of any course in his band that he must meet an attendance rate of not less than 75% of the periods allocated for lessons (lectures, exercises and practical lessons) and the same percentage is applied to the duration of attendance in the course in the case of applying the hybrid education system.

6- According to the decision of the University Council, the Faculty Council, at the request of the competent departments' councils, issues a decision to deprive the student from taking the exam in courses that did not meet the attendance rate, and in this case , the student is considered a failure in the courses in which he was prevented from taking the exam unless the student provides an excuse accepted by the Faculty Council, and he is considered absent with an excuse, and if the student attends one of the exams during the Issuing a decision to prevent him from entering the exam The exam shall be considered null and void once the decision is issued.

Course Grades, Cumulative Grade Calculation and Honors

1- The student obtains one of the following grades in the result of the final courses and in the general estimate according to the grades he obtained attributed to the maximum end of the grades:

Table (7): Percentages of Course Grades

Appreciation	Ratio
Excellent	85 % or more
Good	75% to less than 80%
Good	65% to less than 75%
Acceptable	50% to less than 65%
Weak	30% to less than 50%
Very weak	Less than 30%

2- The cumulative grade of the student upon graduation is calculated by calculating the ratio of the total grades obtained in the years of study to the total maximum ends of the grades in the five years.

3- The student is awarded honors when he obtains a general appreciation of excellence or very good in each of the four years of specialization, provided that he has not failed any course throughout the years of study, and the appreciation of the preparatory band is not considered.

Change course

The student may change the study program (track) after the result of the first year in the program in which he is registered , with a maximum of 5% of the number of students of the academic program to which he is transferred, after conducting the scientific clearing and so that the students' ranking is according to the total preparatory year, taking into account the student's stay in the same band / level in accordance with Article (11) of the student list for the bachelor's stage (2020) and in accordance with With the law regulating universities and the regulationsof the .

Guidance for students during the exam period

All students must observe the following during the examination period

- Anyone who violates the examination system or the necessary calm for him and anyone who cheats in an exam or attempts to do so will be subject to discipline as indicated in the Universities Organization Law.

- Every student who commits cheating in an exam or initiates it and is caught in flagrante delicto shall be removed from the committee and deprived of the exam and referredto a disciplinary board.
- It is forbidden to accompany mobile phones inside the places of holding exams, and it is necessary to leave these devices outside the exam halls under the responsibility of their owners, and anyone who is caught with a mobile phone during the exam will be subjected to legal accountability in application of the decision of the University Council.
- It is forbidden to use programmable computers in the performance of the exam.
- It is forbidden for students to enter with any of the tables or design drawings as the Faculty will provide them during the exam.
- The student is not allowed to leave the examination committee before half the time has passed.
- If the student is late due to compelling circumstances to enter the exam, he may be allowed to enter the committee, provided that the delay does not exceed half an hour and no examiner student has left the examination committee.
- If the student is caught cheating during the exam, his exam is canceled in the whole semester, even if the subject that was caught cheating in the exam is a material that lags behind.

Apologies for taking the exam

The student has the right to apologize for not entering the exam for two consecutive or sporadic years during the period of study, for an excuse

accepted by the Faculty Council, and in case of necessity and by a decision of the University Council, a third apology may be accepted.

In all cases, the student must apologize for not entering the exam and its justifications before or during the exam and not after the end of the exam

Coordination of departments after the preparatory band and bifurcation within the departments

1- The Faculty Council determines and adopts the coordination mechanism for admission to programs after the preparatory year, and this is done in the last session of the Faculty Council in the academic year preceding the coordination, so that it is taken in addition to the students' desires and the totalof them in the preparatory band and the availability of the material and human capabilities of each scientific department, on the basis of which the absorptive capacity of each program is determined, and therefore the These percentages vary from year to year according to the material and human resources available.

2- Students wishing to enroll in the architectural engineering program must pass the required aptitude test so that the department council forms a committee to develop and correct the exam and is approved by the Faculty council, while the Faculty administration is responsible for controlling and announcing the results. The aptitude test is conducted after the end of the second semester exams in the preparatory year.

3- Wish cards are distributed to students to join the academic programs during the second semester exams for the preparatory year, so that the student determines his desires to join the

academic programs available in each of the faculties of engineering in Matareya and Helwan engineering, noting that the tennis is done between the students of each Faculty separately, taking into account the result of the aptitude test for interested students In joining the Department of Architecture.

Student transition from band to higher band

1- The student moves to the higher band if he succeeds in all courses or fails in no more than two courses from his band or from a lower band, in a manner that does not violate the corresponding articles in the Egyptian Universities Organization Law.

2- The student takes the exam in the courses in which he failed or missed it, and his success in this case is considered an acceptable estimate and a percentage not exceeding 64%, except for the student who is absent with an acceptable excuse, so he obtains his full grades.

Transfer between the two study systems in the two semesters and credit hours

It is permissible to transfer between the two study systems in the Faculty based on the rules approved by the Faculty and university councils and the engineering education sector committee, and in line with the requirements of bachelor's programs in the credit-hour system, according to the following:

1- A student enrolled in the credit hour system may be transferred to the two-semester system as long as he does not pass 92 credit hours, and a clearing is made for the courses that the student passed in the

credit hour system and the equivalent courses in the academic program allowed to be transferred to him are determined by the Programs Committee, so that he is transferred at most to the third year and studies at least two full academic years, after the approval of the Faculty Council to transfer The student who has been recruited through the coordination office of the Faculty either to the program in which he was studying in the Faculty or according to the total grades of the preparatory band obtained at the Faculty , while the transferred student is transferred. From outside the Faculty only to the Faculty to which he was nominated before joining the credit hour programs.

2- It is not permissible to transfer the student from one of the credit hour system programs to a two-semester program if he does not meet the admission requirements for this program "semester system" when joining the Faculty , provided that there are places available in the program that the student wishes to transfer.

3- It is permissible to transfer the student who has been distributed from the Coordination Office to the Faculty and is enrolled in the two-semester system in any band until the second to the study system in credit hours, provided that he has not exhausted the failure times, after clearing the courses that the student passed in the two-semester system in accordance with the clearing rules contained in this regulation to determine the equivalent coursesand so that no more than is transferred Rewards 92 credit hours passed by the student.

Special conditions for admission of international students to Helwan University

The expatriate student is the student who does not hold Egyptian nationality and the Faculty welcomes all students of any nationality and the student is directed to submit papers to the expatriate administration in Nasr City, which examines these papers and then addresses the university that addresses the faculty, then the student's papers are examined at the faculty and clearing him in the program he wishes to join.

Transfers to the Faculty of Engineering in Matareya

The transfer and transfer of student enrollment between Faculty s affiliated to universities subject to the Universities Organization Law is carried out in accordance with the provisions approved by the Supreme Council of Universities and the capabilities of the Faculty and the approval of the councils of the two Faculty s. Enrollment is transferred through the Central Office for Transfers at the General Administration of Education and Student Affairs at Helwan University.

1. Students follow the following rules when wanting to transfer:

- Modifying the nomination for new students is done through the main coordination office in Cairo directly.
- Transferring the enrollment of any student between asymmetrical Faculty s who have obtained equivalent certificates from previous years through the university's central transfer office after a survey of the Coordination Office and knowing the minimum admission.

- The transfer of the student between the corresponding Faculty s in universities should be centralized at the level of each university.
- A student who has an opportunity from abroad is not entitled to transfer permanently.
- The student must be successful with at least an acceptable grade.
- The percentage of transferees from the number of students enrolled in the band to be transferred to shall not exceed the percentage specified in accordance with the general rules announced in the Faculty .
- Priority transfer among applicants for students with the highest score.
- It is not permissible to accept applications to transfer students to Matareya Engineering after the end of the application period announced at the Faculty .

2. Transfers that follow the clearing rules.

- The student must meet the conditions of geographical distribution established in this regard.
- Students who have obtained (high school from outside the geographical scope of the university) can be transferred and transferred to Matareya Engineering if his guardian is transferred to Cairo, provided that they submit a certified copy of the father's transfer decision, lease contract and electricity receipt.
- The student who wishes to transfer to the Faculty must submit an application to Prof. Dr. / Vice Dean for Education and Student Affairs, attaching the following:
    1. The original transcript for the scientific subjects studied at the university or Faculty from which he transferred.

2. A description of the vocabulary of the courses studied and the number of hours for them.
3. A true copy of the high school diploma or its equivalent.
4. After conducting the clearing process, the competent scientific committee in the Faculty issues its decision to determine the academic level that the transferred student must join for the subjects loaded with and the subjects exempted from studying in the band to which he is transferred.

- The university has the right to cancel the admission of a student transferring to it from another university if the following is found:
  1. If he is dismissed from the other university for moral or academic reasons.
  2. If it is proven that his documents issued by the other university are incorrect.

Graduation

- After announcing the bachelor's result and the student's success, the student withdraws a clearance form from the Student Affairs Department, and this evacuation is completed.
- The graduate submits a stamped application in the name of Prof. Dr. / Dean of the Faculty to withdraw his papers from the Faculty to obtain a certificate of qualification proof (temporary).
- The graduate submits a stamped application in the name of Prof. Dr. / Dean of the Faculty and can obtain proof of qualification in Arabic and English.

Part IV

Materials of the Credit Hours System Regulations

Part IV: Articles of the Credit Hours System Regulations

Purpose of creating new programs

- Establishing a new system of study with a credit-hour system at the bachelor's level at the Faculty of Engineering in Matareya - Helwan University to be a model for similar future programs.
- Developing engineering education in specialized engineering fields to make these programs eligible for accreditation.
- Exploiting the university's capabilities and the expertise of faculty members in various specialized engineering fields to develop the profession by providing a high degree of theoretical and practical quality.
- Cooperation with governmental and private industrial institutions.
- Cooperation with foreign educational institutions and exchange of experiences.

The programs are designed to comply with the National Academic Reference Standards (NARS) to include courses that aim to qualify and provide students with the following:

- Applied and academic skills and skills of using modern technologies in engineering fields.
- Effective communication and social interaction skills.
- Knowledge of management sciences, economics, risk management, legislation, law as well as professional ethics.

Implementation of credit hour programs

In light of the administrative and financial regulations for the new programs with the credit hour system issued by Helwan University, the new programs management committee at the faculty manages the credit hour programs, provided that all decisions are approved through the Supreme Committee for the Management of New Programs at the university after the approval of the Faculty Council, and the Faculty includes the following programs with a credit-hour system:

1. Power Engineering Program
2. Structural Engineering Program
3. Digital Architecture Program
4. Automotive Mechatronics Engineering Program
5. Project Management & Construction Program (PMC)

Admission and Transfer Requirements

To apply to the Faculty , the following conditions must be met:

1. To have a high school completion certificate, mathematics division or its equivalent, who have been distributed through the Coordination Office to the corresponding Faculty or government Faculty s.
2. The Faculty Council shall determine the conditions for admission or transfer to credit hour education programs from other Faculty s in accordance with the controls set by the Supreme Council of Universities and approved by the University Council.
3. Students transferring from the semester system from the Faculty or from the corresponding Faculty s and who wish to enroll in the credit-hour education programs must be transferred students to the higher

teams, provided that the courses that have already been successfully completed are cleared.

4. Students who have previously spent a year or more in one of the similar programs outside the Faculty of Engineering in Matareya - Helwan University and wish to enroll in one of the programs must submit a statement of status from the Faculty in which they were enrolled showing thegrades they obtained and the number of credit hours they studied, provided that they did not finish more than 96 credit hours and with an average cumulative average not less than the minimum determined by the Faculty Council.
5. Students who have previously left one of these programs for a semester or more and have previously obtained a grade of at least (D) as a cumulative average during the period they spent in the program may re-enroll, provided that the student does not stay at any academic level for more than two academic years, in accordance with the decisions of the University Council and the Universities Organization Law in this regard, as well as the presence of vacant places.
6. The Faculty accepts credit hour programs for international students after studying their case and clearing what has been studied, in accordance with the rules determined by the university.

Study dates and enrollment

The study at the Faculty in the credit hour system depends on the semester system, where the academic year is divided into three semesters as follows:

Chapter One: Starts in September for a period of At least 14 Week

Chapter Two: Starts in February for a period of At least 14 Week

Summer Semester: Starts in July for At least 7 Intense weeks.

The student is enrolled in the semester (first or second) after fulfilling the admission requirements and paying the prescribed fees.

Language of study

The language of study is English, and the exam paper and the student's answer are also in English, and accordingly the student submits a minimum TOEFL certificate : (paper exam 400, computer exam 140, or online exam 40), or IELTS certificate with a minimum of 4.0. This may be amended by a decision of the Faculty Council. The student is not allowed to study the "Technical English" course in the first year until after submitting this certificate.

Note that some courses can be taught in Arabic as well as the exam in it, such as some humanitarian courses, and the Faculty Council or whoever authorizes them in special cases may authorize the student to answer in another language after taking the opinion of the student's scientific department.

Duration of study

1. The Faculty awards its graduates a bachelor's degree in the field of specialization after the student completes the 160 credit hours required for successful graduation. The credit hour is equivalent to one theoretical lecture for one hour, two hours of exercises or three hours of practical and laboratory training, and teaching is in English, except for some humanities courses, which are taught in Arabic.
2. The duration of study for a bachelor's degree is ten main semesters (five years). A student who takes courses in summer semesters can

complete the requirements at most one semester before that , so that the minimum graduation of the student is four and a half academic years.

3. The programs can give a student the opportunity to enroll in an international undergraduate program that includes studying abroad. Where students can pass one or two consecutive semesters at most in a foreign university after the approval of the Program Committee, the Faculty Council and the University Council, and the hours that the student successfully passed are counted within the graduation requirements after making the necessary clearing, provided that they are calculated within the student's cumulative average points.

Study Requirements

The credit hour programs contain common requirements for the university and Faculty in addition to specialized engineering courses for each program according to the percentages specified by the national academic reference standards.

Essential components of study requirements include:

1. University requirements courses are compulsory and elective.
2. Faculty requirements courses are compulsory and elective.
3. General specialization courses are compulsory and elective (major requirements).
4. Compulsory and elective specialized courses (minor requirements).
5. Computer Applications and Information Systems Courses - Compulsory and Elective.
6. Distinctive courses for the program - compulsory and elective.

The Program Committee has the right, after the approval of the Faculty Council and the approval of the University Council, to delete or add 10% of the courses to the list annually to achieve the requirements of the labor market, and the student, when choosing courses at the beginning of any semester, must take into account the achievement of the prerequisites required by these courses.

Tuition fees

1. The University Council determines the educational service fees, for each credit hour, based on the proposal of the Faculty Council annually, and these fees can be increased annually for new students in accordance with the controls set by the Supreme Council of Universities. The University Council has the right, based on the proposal of the Faculty Council, to amend the value of educational service fees in accordance with the requirements of the economic operation of the program for students enrolled in the program.
2. The student signs a pledge to commit to pay the educational service fees proposed by the Faculty , and approved by the university.
3. The fee for the educational service is collected each semester and its value is estimated at the number of hours in which the student registers in the semester (first semester and second semester), and a minimum of what corresponds to an educational service for 12 semester credit hours. The fees for the educational service for the summer semester are according to the number of credit hours in which the student registers. This is in addition to the annual tuition fees set for each academic year.

Academic Advising

Due to the importance of academic advising in the study of the credit hour system:

1. The Faculty assigns for each student an academic advisor from the faculty members to assume full scientific supervision during his studies at the Faculty , help him overcome any problem that may hinder his academic progress, and follow up the registration for courses in each semester.
2. The academic advisor is obligated to follow up the student's performance, and assist him in choosing the courses of the semester, provided that the student is placed under observation for the next semester if his cumulative average drops to less than 2.00 for two consecutive semesters by reducing the number of hoursin which registration is allowed to 12 credit hours, and the observation is raised when the student's cumulative average exceeds 2.00.

How to register courses

The Academic Council of Programs announces the registration dates for the courses. Students should review their choices with their assigned academic advisors in accordance with the instructions in the program guide announcedon the website and will not allow registration after the specified dates. If defaulters are allowed to register, there will be a delay penalty.

Registration Steps

1. Dates for registration steps are announced before each semester.
2. Registration is only allowed for the advertised semester.

3. Registration is only considered upon completion of all financial obligations – students who have not paid all tuition fees are neither allowed to register nor attend classes.
4. Registration is initially done before the beginning of each semester, and the academic advisor assists the student in selecting courses and determining the number of credit hours for each semester according to the value of the student's cumulative average according to the following:
   - Registration up to 17 credit hours for a student with a GPA equal to or greater than 2.
   - Registration up to 14 credit hours or 5 courses for a student with a cumulative GPA of less than 2.00 for one semester, and if the GPA is repeated less than 2.00 for two consecutive semesters, the student is placed under observation.
   - Registration up to 6 credit hours or a maximum of two courses for any student in the summer semester.
5. In the registration process, it must be taken into account not to register courses at the higher level of the student until after completing at least 60% of the hours of the student's current level and subject to the approval of the academic advisor.
6. The student may not study a course until after passing the courses prior to him (required).
7. The maximum number of credit hours in which a student is allowed to register may be raised by no more than 3 credit hours, during the last two basic semesters and the last summer semester for the student after studying his condition and changing his cumulative average,

subject to the approval of his academic advisor and the approval of the Programs Committee at the Faculty .

8. The student has the right to re-register in any course in which he failed, and the course repeats the study and exam, after paying the prescribed educational service fees.
9. The minimum number of students to register for any course determined by the Faculty 's Program Committee.
10. Students may be registered as listeners in some courses after the approval of the Programs Committee at the Faculty and are not entitled to take the exam or obtain a certificate of courses.

Conditions of amendment, cancellation and withdrawal

First: Withdrawal from the semester

1. The student has the right to withdraw from any semester until the end of the eighth week. Tuition fees and the cost of the educational service for this semester shall be paid in accordance with the university's regulations in this regard, and this withdrawal shall be considered a suspension of enrollment and shall be a maximum in accordance with item 4 of the second paragraph of this article.
2. The student has the right to withdraw from a semester completely due to illness or with an excuse accepted by the Faculty 's Program Committee, provided that he re-studies the courses in which he registered in a subsequent semester of study and exam.

Second: Withdrawal from a decision

1. The student has the right to change courses in which he registered with others, within two weeks of the start of the study in the first and second semesters, and one week in the summer semester.
2. Tuition fees are refunded to the student in case of withdrawal from course(s) within the first two weeks of the start of the study only.
3. The student may drop a course without any academic impact until the end of the fourth week for the first and second semesters. A course dropped during the first four weeks of study does not appear in the transcript given to the student.
4. The student may withdraw from a course until the eighth week of the start of the semester and be assigned a grade of withdrawal (W) in this course (official withdrawal), provided that he studies it and takes the test in it in a subsequent semester while bearing all the required tuition fees.
5. If the student withdraws from one or more courses after the specified period for withdrawal without a compelling excuse accepted by the Faculty Council, a grade of (F) is calculated for him in the courses from which he withdrew, but if he submits before the exam with a compulsive excuse accepted by the Faculty Council, it is considered "W".
6. The student gets an F) grade if he stops attending without dropping the course.
7. The student is allowed to re-register in a course in which he has previously obtained an F grade, and he is allowed to attend the course and retake the exam in accordance with the financial and administrative regulations that determine this, and the grade he obtains after repetition is recorded for him as a maximum of (.(B+

Rules of regularity in the study

All students enrolled in the programs must adhere to the following university rules:

1. Registration fees and educational services are paid upon the start of registration, and the University Council determines the fees required for registration and educational services, and students who wish to study abroad in accordance with Article (34) must submit evidence of this early, as additional fees are collected and as determined by the University Council.
2. Any student who does not pay the full tuition fees will not be allowed to transfer to the higher level and is not allowed to study regularly at the Faculty , and if there are any tuition fees still unpaid when the student enters the qualifying exam for the bachelor's degree, the degree is withheld and the bachelor's degree is not issued until after paying the full tuition fees.
3. The student must notify the advisor assigned to him when he has dropped out of school for more than a week. If the interruption is due to illness, an approved medical certificate must be submitted stating this. If the student does not take the exam as a result of illness, a sick certificate must be submitted immediately, and in the event that the student does not comply with the above, the student is considered to have dropped out of the study and this is considered a warning to him to be dismissed from the program.
4. The student must notify the Faculty administration of any change in his correspondence address.

Student status and regularity of study

To obtain a bachelor's degree from one of the programs, a student needs to study a number of courses with at least 160 credit hours and successfully pass the courses to obtain a bachelor's degree.

First: Student Status

1. To determine student status, a student who registers for 12 credit hours or more is considered a regular student.
2. The student's academic level is defined according to the following table:

Table No. (7) Dividing the academic levels of the students of the credit hours

Study Level	Definition of the student's location in the study system	Percentage of credit hours successfully passed by the student	Number of credit hours successfully completed by the student
0	Freshman	0% to 20%	٣٢Less than
1	Sophomore	More than 20% to 40%	٦٤ and less than ٣٢From hours
2	Junior	More than 40% to 60%	than hours and less ٦٤ From hours ٩٦
3	Senior-1	More than 60% to 80%	than hours and less ٩٦ From hours ١٢٨
4	Senior-2	More than 80% to 100%	From 128 to 160 hours

Second: Regularity of study

1. The student must study the courses in which he has finally registered .
2. Regularity in the study includes attending lectures, exercises and laboratories as shown in the program in which they were registered, according to the credit hour system, and the study may be in the

course by 70-60% face to face and by 30-40% in the distance education system, or any other percentage, provided that this is presented to the Higher Committee for Programs and the Council of Education and Student Affairs at the university for approval and submission to the University Council for approval.

3. The student is deprived of entering the exam of the courses in which he was registered if the percentage of absence exceeds the permissible, which is 25% of the weeks of study, and a grade of (F) is assigned to him with the obligation to pay the study fees for these courses (s).
4. The student must attend the study and may not interrupt for a period exceeding two consecutive semesters or four non-consecutive semesters as a maximum, except in special circumstances and with the prior approval of the Programs Committee at the Faculty , and the enrollment is considered suspended.
5. The suspended student is not allowed to attend lectures or exercises during the period of suspension of registration.

Third: Irregular study

If the student is absent for more than three weeks during the main semester for any reason, or two weeks in the summer semester, the instructor shall inform the program registrar to apply paragraph 3 of the second described above.

Apologies for not taking the final exam

The student's excuse for attending one or all of the end-of-semester exams is accepted for compelling reasons, and approved documents are submitted proving and accepted by the Faculty Council, and in this case

he is assigned a failed estimate of absence with an excuse (ABS) and after repeating the course of study and exam, the student is calculated for the grade he obtained without reduction and if the student does not complete the final exam due to the illness that was proven and registered during the exam by the Faculty doctor or did not attend the exam day for any of the following reasons: The occurrence of a first-degree death, accidental accident, or emergency surgeries, provided that the Faculty doctor approves that, with the submission of all approved documents proving that he was exposed to any of these conditions and after the approval of the Program Committee and the Faculty Council, he obtains a grade (I) and is allowed to retake the exam in the same course at the end of the next semester and the grade he obtains is monitored without reduction.

Dropping out of school

The student is considered to have dropped out of study if he does not register in a semester or withdraws from all semester courses without an acceptable excuse, taking into account the provisions of Article (42) of these regulations, and the student is dismissed from the Faculty if he stops studying in accordance with the rules of regularity Article (40).

Student Assessment Method

The student's performance in each course is evaluated during the semester. By means of summary examinations, reports, discussions or any other means of assessing the student's level. The final evaluation is through:

1. A written exam at the end of the semester, and it is not calculated at more than 40% of the course grade, and the exam may be held electronically in one or more courses, and the exam may be held in all or part of the course to allow it to be corrected electronically, provided that this is presented to the Supreme Committee for Programs and the Council of Education and Student Affairs at the university for approval and submission to the University Council for approval, with the exception of this project and the courses determined by the regulations. End of semester exams are held according to the exam dates determined by The Academic Council is approved by the Faculty Council. The Program Committee proposes the duration of the examination of each course in the credit hour programs at the request of the program coordinator, provided that this proposal is approved by the Faculty Council.
2. Each course is held a written exam in the middle of the semester, with a minimum grade of 20%.
3. For the degree of quarterly, oral, practical, research and reports.... etc., it represents 40% of the course grade, and it is determined and documented in the course description after its approval and approval by the Academic Council, and it is also announced to students at the beginning of the semester.
4. The prescribed percentage for any element of the student's evaluation should not exceed 40% of the total course grades.
5. The student's success requires that he obtain at least 60% of the total course grades and obtain at least 30% in the written exam grades at the end of the semester.

6. The student is considered a failure if he obtains in the total grades of the course less than 60% with a grade of (F) or does not attend the written exam due to deprivation of entry, or does not attend the exam without an excuse accepted by the Faculty .
7. When a student repeats any course, he repeats it in study and exam, and his performance is evaluated again in full.
8. At the end of the semester, the student is informed of his final grades in the courses, and the final grade is recorded in Student Affairs.

Course Grades and Grade Average

1. The progressive grading system is used where the grades and points of the courses are calculated as shown in the following table:

Table No. (8) Coefficient of Equivalent Points for Course Grades

Coefficient of points	Appreciation	Percentage Obtained by the student
4.00	A+	and above %٩٧
4.00	A	%٩٧up to less than %٩٣
3.70	A-	%٩٣up to less than %٨٩
3.30	B+	%٨٩up to less than %٨٤
3.00	B	%٨٤up to less than %٨٠
2.70	B-	%٨٠up to less than %٧٦
2.30	C+	%٧٦up to less than %٧٣
2.00	C	%٧٣up to less than %٧٠
1.70	C-	%٧٠up to less than %٦٧
1.30	D+	%٦٧up to less than %٦٤
1.00	D	%٦٤up to less than %٦٠
0.00	F	Less than 60%

2. This is in addition to the following special estimates:

Significance	Appreciation

Listener	Audit	AT
successful	Pass	P
Failure	Fail	F
Fail for absence with an excuse	Fail for not attend	ABS
Out	Withdrawn	In
Incomplete	Incomplete	I

Cumulative Point Average (GPA) Calculation

The points obtained by the student for each course are calculated as the product of the number of credit hours for the course multiplied by the coefficient of points obtained by the student according to the coefficient of points table. The result is the column representing the amount of points. To calculate the cumulative point average (GPA), the sum of these points is divided by the total number of credit hours for courses, and the decimal places of the average grade are rounded to two digits after the decimal point.

1. Courses in which the student registers as a listener, or in which success is requested only, or did not complete it for a reason accepted by the Faculty , and are not included in the calculation of the average points, so one of the grades is assigned to him AU or P.
2. A student is not considered successful in any course unless he obtains a grade of at least (D).
3. A student does not obtain a bachelor's degree, unless he achieves an overall cumulative average of 2.00 at least.

4. The points of each course are calculated as the number of credit hours multiplied by the points coefficient.
5. The total points obtained by the student in any semester are calculated as the total points of all the courses studied in this semester.
6. The average points of any semester are calculated as the result of dividing the total points obtained by the student in this semester, divided by the total credit hours for these courses.
7. The course in which the student obtains a grade of (F) repeats it again and calculates his grade with a maximum of (B+)
8. The average graduation points after passing the total graduation requirements are calculated as the result of dividing the total points of all the courses studied by the student, regardless of the result of the exam, whether he passed or failed them by the total credit hours for these courses.
9. The student's cumulative points average (GPA) is calculated on the basis of the points obtained within the program and the joint courses between the credit hour programs in the Faculty , without counting the points for the clearing courses obtained from outside the Faculty , while calculating the number of hours of the total hours required for the student's graduation. The comparison between students in appointing teaching assistants is based on the GPA obtained by the student in the courses he studied in the program. In the case of differentiation between students transferred from other programs and former students in The program is based on the GPA for the total student hours in the program or the GPA for the classes that they

participated in the program, whichever is in the interest of the student who spent a greater number of credit hours in the program.

Academic Probation

If the student's GPA falls below 2.00 in any semester after passing the beginner level (zero), the student is given an academic warning and is threatened with dismissal, and the academic warning stipulates that the student must raise his cumulative GPA to at least 2.00.

Dismissal from the program

1. A student who is academically probated from studying in the credit hour program will be dismissed if his/her GPA drops below 2.00 in six consecutive main semesters.
2. The Faculty Council may consider the possibility of granting a student exposed to dismissal as a result of his inability to raise his cumulative GPA to at least 2.00, one and last opportunity of two semesters to raise his GPA to 2.00 and meet the graduation requirements.
3. If the student does not meet the graduation requirements within the maximum study period of ten years, he will be dismissed.
4. The student shall be dismissed if he misses two consecutive semesters without an acceptable excuse or three non-consecutive semesters without an acceptable excuse.

Re-study of courses

The student may re-study the courses in which he previously passed for the purpose of improving the cumulative average, and the repetition is a study and an exam, and the highest grade obtained is calculated for him, with a maximum of 5 courses, unless the improvement is for the purpose

of raising the academic warning or achieving graduation requirements, and in all cases the two grades are mentioned in his academic record.

Observation

A student is placed in observation status if he obtains an average grade of less than 2.00 in any two consecutive semesters. The observation period gives the student the opportunity to correct any deficiency or incompatibility. This period shall not exceed the period specified in Articles (41 and 43), as this means that the student is unable to attend the study program.

Bachelor's degree requirements

To obtain a bachelor's degree you must:

1. The student must pass a minimum of 160 credit hours in the course study with a grade of no less than (D) and obtain a cumulative average score (GPA) of not less than 2.00.
2. The student is required to submit a project for graduation, and the student graduates only after meeting the conditions for success in the project.
3. The student performs an internal practical training for a period of not less than 6 weeks and an external field training for a period of not less than 6 weeks, continuously or twice, and the student graduates only after successfully performing the training.

Preparation of the graduation project

After passing at least 114 credit hours, the student may prepare a bachelor's project. An additional period of study is allocated to the project, starting after the completion of the semester exams and under

the supervision of faculty members to organize, supervise and discuss projects. At the end of the period allocated for the project, the student submits a scientific report on the subject of the graduation project and discusses it.

Practical and field training

The programs include a twelve-week training system during the summer vacation under the supervision of faculty members for students transferring to the second, third or fourth level as follows:

Practical training: Students transferred to the second level perform practical training for a period of 6 weeks in specialized centers and units within the Faculty or university or in any participating party determined by the program administration according to specialization, and a full report on the training period is submitted and discussed by a committee of specialized professors.

Field Training: Students transferred to the third level or students transferred to the fourth level perform field training for a period of not less than 6 weeks at least, continuous or twice, in one of the companies, factories, consulting offices, industrial or service facilities, or project implementation sites related to his specialization, and it is fully under the supervision of the Faculty and a full report on the training period is submitted and discussed by a committee of specialized professors and approved by the competent scientific department.

A student receives a bachelor's degree only if he successfully performs both practical and field training.

The Program Management Committee determines the tuition fees for the internships proposed by each program according to its requirements.

Students may be trained outside the Republic after the approval of the Faculty 's Program Committee.

Final Grade of Bachelor's

The final grade of the bachelor's degree is calculated according to the following criteria:

1. The final grade of the awarded grade is calculated on the basis of the overall cumulative point average.
2. Graduation requires a cumulative average of at least 2.00 for the specialization courses.
3. The academic advisor may request the student to repeat some of the courses in which he previously succeeded or add new courses to him, in order to raise the cumulative average points to achieve the graduation requirements.
4. The student's cumulative average score (GPA) is calculated on the basis of Article (46).

Honors

1. Honors is awarded to a student whose cumulative GPA is at least 3.3 and achieves at least such an average during all semesters of the credit hour program. To award honors, the student must not have obtained an F grade in any course during his university studies.
2. When any of the top thirty students in the Egyptian General Secondary School - majoring in mathematics - enrolls in the credit hour program, he is exempted from all tuition fees and fees and the educational service during the semester following his enrollment, and

this exemption remains valid as long as the student obtains a cumulative point average of at least 3.60.

3. The Faculty sets a system to encourage outstanding students by reducing the educational service fee for them in gradual proportions with the cumulative average, and announces at the beginning of each semester the list of outstanding students and the rates of reducing expenses for each student, provided that the student obtains a cumulative average of not less than 3.60.

Rules for transferring between credit hour programs and the two-semester system

1. A student enrolled in the credit hour system may be transferred to the two-semester system as long as he does not pass 96 credit hours, and a clearing is made for the courses that the student passed in the credit hour system, and the equivalent courses are determined in the academic program allowed to be transferred to by the Programs Committee, so that he is transferred at most to the third year and studies at least two full academic years, after the approval of the Faculty Council. The student who was distributed through the Coordination Office to the Faculty is transferred either to the program in which he was studying in the Faculty or according to the total grades of the preparatory band obtained in the Faculty , while the student transferred from outside the Faculty is transferred only to the Faculty on which he was nominated before joining the credit hour programs.
2. It is not permissible for a student to be transferred from one of the credit hours system programs to a two-semester program if he does

not meet the admission requirements for this program "two-semester system" when joining the Faculty .

3. It is permissible to transfer the student who has been distributed from the Coordination Office to the Faculty and is enrolled in the two-semester system in any band until the second to the study system in credit hours, provided that he has not exhausted the failure times, after clearing the courses that the student passed in the two-semester system in accordance with the clearing rules contained in these regulations to determine the equivalent courses and so that No more than 96 credits passed by the student are transferred.
4. The Faculty Council may, based on the opinion of the Programs Committee of the Faculty , amend the conditions for transferring to and from the new programs in the credit-hour system based on new circumstances, provided that this is approved by the Higher Committee for Programs at the University and the University Council.

Table No. (10) The following tables are used to calculate equivalent grades when transferring a student between the two systems.

Credit Hours System		Two-semester system	
Coefficient of points	**Appreciation**	**Corresponding grading**	**Corresponding percentage**
4.00	A+	privilege	98 %
4.00	A		93 %
3.70	A-		%٨٨
3.30	B+	Very good	83 %
3.00	B		%٧٨
2.70	B-		73 %
2.30	C+	Good	70 %
2.00	C		67 %
1.70	C-	Acceptable	63 %
1.30	D+		58 %

1.00	D		53 %
0.00	F	Failure	--

Credit Hours System		Two-semester system	
Appreciation	**Coefficient of points**	**Percentage obtained by the student**	**Grade obtained by the student**
A+	4.00	95 % to 100%	privilege
A	4.00	90 % to < 95 %	
A-	3.70	85 % to < 90 %	
B+	3.30	80 % to < 85 %	Very good
B	3.00	75 % to < 80 %	
B-	2.70	71 % to < 75 %	Good
C+	2.30	68 % to < 71 %	
C	2.00	65 % to < 68 %	
C-	1.70	60 % to < 65 %	Acceptable
D+	1.30	55% to < 60%	
D	1.00	50% to < 55%	
F	0.00	0 % to 50 %	Failure

Course title tables and credit hours for new programs

University Requirements (13 credits)
Requirements of Compulsory University (١١) .Table No
(credit hours ٩)Social and Humanitarian Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
HUM001	History of Engineering and Technology		1	1			1	**History of Engineering and Technology**
HUM002	Human Rights		1	1			1	**Human Rights**
HUM003	Report Writing		2	2			2	**Report Writing**
HUM004	Communication and Presentation Skills		2	2			2	**Communication and presentation skills**
HUM101	Technical English Language		1	1			1	**Technical English**
HUM201	Environment and Pollution Sciences		2	2			2	**Environmental and Pollution Sciences**
Total			9	9	0	0	9	**Total**
Total Credit Hours 9				Total contact hours 9				

University Requirements for Elective Social (١٢) .Table No
credit hours ٤and Humanitarian Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours	Course Name

				Lec.	Does	Lab	∑	
HUM121	Research and Analysis Skills		2	2			2	**Research and analysis skills**
HUM122	Negotiation Skills		2	2			2	**Negotiation Skills**
HUM123	Marketing		2	2			2	**marketing**
HUM124	Profession Ethics		2	2			2	**Professional Ethics**
Total			4	4			4	**Total**
Total Credit Hours 4				Total contact hours 4				

Faculty Requirements (32 credit hours)

Table (١٣): Compulsory College Requirements (٣٠ credit hours)

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
BSE001	Engineering Mathematics-1		3	2	2		4	**Engineering Mathematics ١-**
BSE002	Engineering Mathematics-2		3	2	2		4	**Engineering Mathematics ٢-**
BSE003	Physics-1		3	2		3	5	**١-Physics**
BSE004	Physics-2		3	2		3	5	**٢-Physics**
BSE005	Engineering Mechanics-1		2	1	2		3	**Engineering ١Mechanics**
BSE006	Engineering Mechanics-2	BSE005	2	1	2		3	**Engineering ٢Mechanics**
BSE007	Chemistry		3	2		3	5	**Chemistry**
BSE008	Eng. Drawing and Projection with PC		3	2		3	5	**Computer engineering drawing and projection**
BSE101	Numerical Analysis	BSE002	3	2	2		4	**Numerical Analysis**
BSE202	Modelling & Simulation	BSE101	3	2	2		4	**Modeling and simulation**
BSE201	Engineering Economics	BSE002	2	2			2	**Engineering Economics**
Total			30	20	12	12	44	**Total**

Total Credit Hours 30	Total contact hours 44	

(credit hours ٢)College Elective Requirements :(١٤) Table

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
BSE122	Engineering Mathematics-3	BSE002	2	1	2		3	**Engineering ٣-Mathematics**
BSE123	Physics-3	BSE004	2	1		2	3	**٣-Physics**
BSE124	Applied Statistics in Engineering	BSE002	2	1	2		3	**Applications of statistics in engineering**
BSE221	Mech. and Elec. Utilities		2	1	2		3	**Mechanical and electrical installations**
BSE222	Accounting	BSE002	2	1	2		3	**Accounting**
Total			2	1	2		3	**Total**
Total Credit Hours 2				**Total contact hours 3**				

List of specialized courses for the Energy Engineering Program

General Specialization Requirements of :(١٥) Table (credit hours ٦٥)Compulsory Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
MRE001	Production Technology		3	2		2	4	**Production technology**
ECE101	Electronics Engineering	BSE004	2	1		2	3	**Electronic Engineering**
JAN100	Thermodynamics	BSE003	3	2	2		4	**Thermodynamics**
JAN103	Fluid Mechanics	BSE001 BSE003	3	2		2	4	**Fluid Mechanics**
PLAZO 101	Electrical Engineering	BSE004	2	1		2	3	**Electrical Engineering**
MDE101	Technology and Strength of Materials		3	2	2		4	**Technology and resistance of materials**
MDE102	Mechanical Drawing using PC	BSE008	3	1		4	5	**CNC Mechanical Drawing**
JAN 202	Engineering Measurements	JAN100 JAN103	3	2	2		4	**Engineering Measurements**
JAN204	Automatic Control	BSE002	3	2	2		4	**Automatic control**
JAN205	Mechatronic Engineering	ECE101 JAN 202	3	2		2	4	**Mechatronics Engineering**
JAN206	Heat Transfer	JAN100 JAN103	3	2	2		4	**Heat transfer**
JAN207	Principles of Combustion	BSE007 JAN206	3	2	2		4	**Combustion Principles**
JAN208	Technology and Manufacturing of Bio-Fuel	JAN207	2	2			2	**Biofuel technology and manufacturing**
JAN209	New and Renewable Energies	JAN206	3	2		2	4	**New and renewable energies**
OPE202	Electrical Machines	PLAZO101	2	2			2	**Electrical Machines**
MDE204	Stress Analysis	MDE101	3	2		2	4	**Stress Analysis**
MDE20	Mechanical Design	MDE102	3	2	2		4	**Mechanical**

5		MDE204						Design
ICT201	Engineering Systems Analysis	BSE101 JAN206	3	2		2	4	Analysis of engineering systems
JAN213	Practical Training (indoor)	70 Cr. hr..	1			2	2	Practical Training within the) (Faculty
JAN303	Internal Combustion Engines	JAN206 JAN207	3	2		2	4	Internal combustion engines
JAN315	Heat Exchangers Design	JAN206	3	2	2		4	Design of heat exchangers
JAN404	Energy Saving and Management	JAN206	3	2	2		4	Energy Conservation and Management
PLAZO 411	Electrical Power Transmission	OPE202	2	2			2	Power Transmission
ICT301	Development of Energy Systems Using PC	BSE101	3	2		2	4	Development of CNC Power Systems
Total			**65**	**43**	**18**	**26**	**87**	**Total**
Total Credit Hours 65				**Total contact hours 87**				

٢)General Specialization Elective Courses :(١٦) .Table No (credit hours

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ICT012	Programing Language Application		2	1		3	4	Computer Programming Applications
ICT202	Utility Design using PC		2	1		3	4	CNC Service Design
ICT303	Computer Aided Design of Energy Systems	MDE205	2	1		3	4	CNC Aided Power Systems Design
Total			**2**	**1**		**3**	**4**	**Total**
Total Credit Hours 2				**Total contact hours 4**				

Specialization Requirements of Compulsory :(١٧) Table (credit hours ٣٢)Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Doe	Lab	∑	

					s			
JAN301	Design of Solar Power Station and its Applications	JAN209	3	2	2		4	**Solar Power Station Design and Applications**
JAN302	Refrigeration and Air Conditioning Systems	JAN100	3	2		3	5	**Refrigeration Air & Conditioning Systems**
JAN305	Turbo-Machines	JAN103 JAN100	3	2	3		5	**Turbomachinery**
JAN313	Practical Training (Outdoor)	96 Cr. hr.	1			3	3	**Practical training outside the) (Faculty**
JAN306	Power Stations Technology	JAN206	3	2	3		5	**Power Plant Technology**
JAN405	Nuclear Plants Engineering	JAN206	3	2	2		4	**Nuclear Plant Engineering**
JAN406	Hydro Power Plant	JAN209	3	2	3		5	**Hydropower plants**
JAN407	Geothermal and Waves Energy	JAN209	2	2			2	**Subsoil energy and waves**
JAN408	Design of Water Desalination Systems	JAN206	3	2	3		5	**Design of desalination systems**
JAN415	Graduation Project-1	114 Cr.hr.	4	1	3	6	10	**Graduation ١ -Project**
JAN416	Graduation Project-2	JAN415	4	1	3	6	10	**Graduation ٢ -Project**
Total			**32**	**18**	**22**	**18**	**58**	**Total**
Total Credit Hours 32				**Total contact hours 45**				

Specialization Requirements of Elective :(١٨) .Table No (credit hours ١٦)Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
JAN322	Wind Energy Engineering and its Applications	JAN209	2	1	2		3	Wind Energy Engineering and Applications
JAN324	Fire Fighting Systems	JAN103	2	1	2		3	Fire extinguishing systems

JAN328	Hydrogen Energy and Fuel Cell Technology	JAN209	2	1	2		3	Hydrogen Energy and Fuel Cell Technology
JAN329	Design of Fluids Transportation Systems	JAN103	2	1	2		3	Design of fluid transport systems
JAN333	Pumps and Compressors	JAN103	2	1	2		3	Pumps & Compressors
JAN341	Special Topic in Energy Engineering - 1	JAN206	2	1	2		3	Special Course in Energy ١-Engineering
JAN342	Special Topic in Energy Engineering - 2	JAN206	2	1	2		3	Special Course in Energy ٢-Engineering
JAN346	Maintenance of Energy Systems	JAN209	2	1	2		3	Power Systems Maintenance
JAN421	Hydraulic and Pneumatic Control Systems	JAN103	2	1	2		3	Pneumatic and hydraulic circuit control systems
JAN422	Control in Energy Systems	JAN204	2	1	2		3	Power Systems Control
JAN423	Refrigeration and Air conditioning Loads estimation	JAN206	2	1	2		3	Calculations of refrigeration and air conditioning loads
JAN424	Photovoltaic Systems	JAN209	2	1	2		3	Solar Cell Systems
JAN425	Waste to Energy Conversion	BSE007 JAN206	2	1	2		3	energy-to-Waste
JAN426	Design of Energy Storage Systems	JAN206	2	1	2		3	Design of energy storage systems
JAN441	Special Topic in Energy Engineering - 3	JAN206	2	1	2		3	Special Course in Energy ٣-Engineering
JAN442	Special Topic in Energy Engineering - 4	JAN206	2	1	2		3	Special Course in Energy ٤-Engineering
MDE420	Vibration and Acoustics Control	JAN204	2	1	2		3	Vibration and noise control
Total			**16**	**8**	**16**		**24**	**Total**
Total Credit Hours 16				**Total contact hours 24**				

List of specialized courses for the structural engineering program

Compulsory General Structural Engineering :(١٩) Table (credit hours ٦٥)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
SPE001	Production Technology		2	1		2	3	**Production technology**
SPE101	Civil Drawing	**BSE008**	3	1	4		5	**Civil Fee**
SPE102	Plane Surveying		3	2	2	1	5	**Planar area**
SPE103	Engineering Geology		1	1			1	**Engineering Geology**
SPE104	Building Construction		2	1	3		4	**Building construction**
SPE201	Hydraulics		3	2	2	1	5	**Hydraulics**
SPE202	Topographic Survey	**SPE102**	2	2	1		3	**Topographic area**
SPE203	Soil Mechanics	**SPE103**	3	2	2	1	5	**Soil mechanics**
SPE204	Construction Planning & Management		3	2	2		4	**Construction Planning & Management**
SPE301	Design of Irrigation Structures	**SPE101 & SPE203**	3	2	3		5	**Design of irrigation installations**
SPE302	Highway and Airport Engineering	**SPE102**	2	2	1		3	**Roads and Airports Engineering**
SPE303	Construction Project Specifications, Bids and Contracts	**SPE215 & SAE305**	2	2	1		3	**Specifications, quantities and contracts**
SPE304	Sanitary Engineering	**SPE201**	2	2	1		3	**Sanitary Engineering**
SPE111	Structural Analysis (1)	**BSE006**	3	2	3		5	**Structural (١)Analysis**
SPE112	Properties of Building Materials (1)		3	2	2	1	5	**Properties of Building (١)Materials**
SPE113	Structural Analysis (2)	**SPE111**	3	2	3		5	**Structural (٢)Analysis**
SPE211	Structural Analysis (3)	**SPE111**	3	2	3		5	**Structural (٣)Analysis**

SPE212	Reinforced Concrete (1)	**SPE113**	3	2	3		5	**Reinforced (١)concrete**
SPE213	Properties of Building Materials (2)	**SPE112**	3	2	2	1	5	**Properties of Building (٢)Materials**
SPE214	Structural Analysis (4)	**SPE211**	3	2	3		5	**Structural (٤)Analysis**
SPE215	Reinforced Concrete (2)	**SPE212**	3	2	3		5	**Reinforced (٢) concrete**
ICT001	Information Technology & Information Management Systems		2	2			2	**Information Systems Technology and Management**
ICT101	Computer Programming Applications	**ICT001**	2	1		3	4	**Computer Programming Applications**
ICT301	Structural Computer Aided Drafting Applications	**SAE205 & SPE101**	3	2		3	5	**Computer Structural Drawing Applications**
ICT401	Structural Analysis Using Computer	**ICT301**	3	2		3	5	**Computer Structural Analysis**
Total			65	45	44	16	105	**Total**
65:Total Credit Hours				**105**				**Total Contact Hours:**

General Structural Engineering Elective :(٢٠) Table (credit hours ٤)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
SPE041	Electrical and Mechanical Engineering		2	2			2	**Electrical and Mechanical Engineering**
SPE241	Construction Engineering Systems & Equipment	**SPE204**	2	2			2	**Construction Engineering Systems & Equipment**
SPE242	Construction Surveying	**SPE202**	2	2			2	**Construction Area**
SPE243	Photogrammetry and Remote Sensing	**SPE202**	2	2			2	**Photogrammetry and remote sensing**
SPE341	Quality Control in Construction	**SPE213**	2	2			2	**Quality control in the field of construction**
SPE441	Hydraulic Structures	**SPE301**	2	2			2	**Hydraulic**

								installations
Total			4	4	0	0	4	Total
4 :Total Credit Hours				4				Total Contact Hours:

Compulsory Specialized Structural Engineering :(٢١) Table (credit hours ٣٦)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
SAE302	Reinforced Concrete (3)	SPE215	3	2	3		5	Reinforced (٣)concrete
SAE303	Design of Steel Structures (1)	SPE113	3	2	3		5	Design of metal (١)structures
SAE304	Design of Steel Structures (2)	SAE303	2	2	1		3	Design of metal (٢)structures
SAE305	Design of Foundations	SPE203 & SPE212	4	3	3		6	Foundation Design
SAE306	Design of Repair and Strengthening Works for Concrete Structures	SAE302 & SAE305	2	2			2	Design of repair and reinforcement of concrete structures
SAE401	Reinforced Concrete (4)	SAE302	3	2	3		5	Reinforced (٤)concrete
SAE402	Steel Bridges	SAE304	2	2	1		3	Metal Bridges
ICS301	Pre-stressed Concrete (1)	SPE215	2	2	1		3	Prestressed (١)concrete
ICS401	Finite Elements Analysis	SPE214	3	2	3		5	Analysis of structures using the finite element method
ICS402	Structural Dynamics and Seismic Analysis	SPE214	2	2	1		3	Structure dynamics and seismic analysis
ICS403	Deep Foundations and Geotechnical Aspects	SAE305	2	2	1		3	Deep foundations and geotechnical

								problems
SPP401	Graduation Project (1)	112 Cr.hrs & Table 1	4	3	2		5	Graduation Project (١)
SPP402	Graduation Project (2)	SPP401	4	3	2		5	Graduation Project (٢)
Total			36	29	24	0	53	Total
36 :Total Credit Hours				53				Total Contact Hours:

Specialized Structural Engineering Elective :(٢٢) Table (credit hours ٤) (١)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
SAE251	Concrete Technology	SPE213	2	2			2	Concrete technology
SAE252	New Materials for Repair and Protection	SPE212 & SPE213	2	2			2	Modern materials for protection and repair
SAE351	Behavior and Design of Brick Buildings	SPE212 & SPE213	2	2			2	and Behavior design of buildings -from load bearing walls
SAE451	Tunnels and Underground Structures	SAE305& ICS401	2	2			2	Underground tunnels and structures
Total			4	4	0	0	4	Total
4 :Total Credit Hours				4				Total Contact Hours:

Structural Engineering Elective Specialized :(٢٣) Table (credit hours ٢) (٢)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ICT461	Soil-Structures Interaction	SAE305 & ICS401	2	2			2	Interaction between soil and structures

ICT462	Nonlinear Analysis of Structures	**ICS401**	2	2			2	**Nonlinear analysis of installations**
ICT463	High Rise Buildings	**SPE215 & SPE214**	2	2			2	**Analysis and design of tall buildings**
Total			**2**	**2**	**0**	**0**	**2**	**Total**
2 :Credit Hours Total				**2**				**Total Contact Hours:**

Specialized Structural Engineering Elective :(٢٤) Table (credit hours ٤) (٣)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ICS471	Special Concrete Structures	**SAE401**	2	2			2	**Special Concrete Structures**
ICS472	Pre-stressed Concrete (2)	**ICS301**	2	2			2	**Prestressed (٢)concrete**
ICS473	Cracking and Deformation of Concrete Structures	**SAE302**	2	2			2	**Cracks and formations of concrete structures**
ICS474	Bridge Engineering	**SAE305 & ICT401**	2	2			2	**Bridges Engineering**
ICS475	Design of Composite Structures		2	2			2	**Composite Structure Design**
ICS476	Ground Improvement Techniques	**SAE305**	2	2			2	**Soil improvement methods**
Total			**4**	**4**	**0**	**0**	**4**	**Total**
4 :Total Credit Hours				**4**				**Total Contact Hours:**

List of specialized courses for the engineering program with digital architecture technology

Compulsory General Specialization Courses :(٢٥) Table

Course Code	Course Title	Pre-requisites	Cr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ADT102	History of Architecture (1)		2	2			2	History of (١)Architecture
ADT114	History of Architecture (2)	ADT102	2	2			2	History of (٢)Architecture
ADT215	Theories of Architecture	ADT114	3		2		4	Theories of architecture
ADT101	Fundamentals of Architectural Design		3	2	2		4	Principles of Architectural Design
ADT115	Architectural Programming		2	2	1		3	Architectural Design Programming
ADT113	Digital Drawing	BSE008	3	2		4	6	Digital Drawing
ADT213	Urban Design		3	2	2		4	Urban Design
ADT303	Urban Planning		3	2	2		5	Urban Planning
ADT405	Landscape Design	ADT301	3	2	3		4	Web Design
SAE119	Structural Analysis		2	1	3		4	Construction Analysis
SAE209	Properties of Materials		2	2		2	4	Material properties
SAE309	Structural Design & Programming	SAE119	2	1	3		4	Structural Design Programming &
SAE319	Structural building Systems	SAE119	2	1	3		4	Building Construction Systems
JAN319	Design & Renewable Energy	HUM201 ADT302	2	1	3		4	Design and renewable energy
ADT111	Architecture Studio (1)	ADT101	3	1	4		5	Architectural ١Studio
ADT201	Architecture Studio (2)	ADT111 ADT115	3	1	4		5	Architectural ٢Studio
ADT103	Building Construction (1)		3	1	4		5	Building (١)Construction
ADT112	Building Construction (2)	ADT103	3	1	4		5	Building (٢)Construction

ADT202	Architecture Working Designs (1)	ADT112	4	2	4		6	Executive Architectural ١Designs
ADT212	Architecture Working Designs (2)	ADT202	4	2	4		6	Executive Architectural ٢Designs
ADT203	Environmental Design & Building Form (1)		3	2	2		4	Environmental Formation and ١Design
ADT302	Environmental Design & Building Form (2)	ADT203	3	2	2		4	Environmental Formation and ٢Design
SAE308	Plane Surveying		2	1		3	4	Planar area
ADT312	Building Legislations		1	1	1		2	Building Legislation
ADT116	Field Training 1		1			3	3	Field Training 1
Credit Hours Total			64		105		Total Contact Hours	

-Elective Courses General Specialization :(٢٦) .Table No ٤ &٣Elective Courses

Course Code	Course Title	Pre-requisites	Cr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ADT221	Architecture and Society		2	2			2	Architecture & Society
ADT222	Writing on Architecture		2	2			2	Writing about architecture
ADT223	Scientific Thinking		2				2	Scientific thinking
ADT224	Art and Architecture		2	2			2	Art & Architecture
ADT421	Human Sciences in Architecture		2	2			2	Humanities in Architecture
ADT422	Architecture Criticism		2	2			2	Architectural criticism
ADT423	Creativity and Innovation		2	2			2	Invention & Innovation
ADT424	Modern Architectural Trends		2	2			2	Modern trends in architecture
٤Total Credit Hours			4				4	Total Contact Hours

Compulsory Specialization Courses :(٢٧) Table

Course Code	Course Title	Pre-requisites	Cr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ADT313	Parametric Design		3	2		5	7	Parametric Design
ADT111	Digital Architecture Studio (1)	ADT201 ADT113	4	2		5	7	Digital Architectural ١Studio
ADT301	Digital Architecture Studio (2)	ADT211 ADT203	4	2		5	7	Digital Architectural ٢Studio
ADT311	Digital Architecture Studio (3)	ADT301 ADT302	4	2		5	7	Digital Architectural ٣Studio
ADT401	Digital Architecture Studio (4)	ADT311 ADT313	4	2		5	7	Digital Architectural ٤Studio
ADT402	Graduation Project I		3	2		3	2	Graduation ١Project
ADT411	Graduation Project II	ADT401 ADT402	6	2	8		10	Graduation ٢Project
ADT304	Advanced Working Designs/BIM Systems	ADT212	4	2		6	8	Advanced Executive Designs/Building Information Modeling
ADT403	Digital Fabrication		3	2		3	5	Digital Manufacturing
ADT412	Digital Media/Studio		3	2		3	5	Digital Media
ADT404	Acoustic Systems in Buildings	BSE004	2	1		3	4	Acoustic systems in buildings
ADT314	Illumination Systems in Buildings	BSE004	2	1		3	4	Building Lighting Systems

ADT305	Field Training 2		1					Field Training 2
Total Credit Hours			43				73	Total Contact Hours

Elective -Specialization Elective Courses :(٢٨) .Table No ٦ & ٥Courses

Course Code	Course Title	Pre-requisites	Cr.Hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ADT431	Environment and Sustainable Development		2	2	1		3	Environment and sustainable development
ADT432	Solar Energy in Buildings		2	2	1		3	Solar energy in buildings
ADT433	Urban Geography		2	2			2	Urban geography
ADT434	Modern Construction Systems	ADT212	2	1	2		3	Modern construction systems
ADT435	Energy Simulation in Buildings		2	1	2		3	Energy simulation in buildings
ADT436	Computer Applications in Urban Planning and GIS	ADT303	2	1		3	4	Computer applications for urban planning and geographic information systems
Total Credit Hours			4		8			Total Contact Hours

List of specialized courses for the automotive mechatronics engineering program

General Major Requirements Courses (69 credit hours)

Specialization Requirements of General (٢٩)Table No. 60 credit hours)) Compulsory Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
MDE001	Production		2	1		3	4	Production
ECE101	Electronics Engineering	BSE004	3	2		3	5	Electronic Engineering
ECE002	Digital Systems		3	2		3	5	Digital Systems
ECE201	Computer Programming		3	2		3	5	Computer Programming
ECE302	Microcontrollers	ECE201	3	2		3	5	Microcontrollers
MPE100	Thermodynamics	BSE003	٢	2			2	Thermodynamics
MPE103	Fluid Mechanics	BSE005	3	2		٣	5	Fluid Mechanics
PLAZO1	Electrical Engineering	BSE004	3	2		٣	5	Electrical
MDE101	Technology and Strength of Materials		3	2	1	1	4	Technology and resistance of
MDE102	Mechanical Drawing using PC	BSE008	3	١	٢	3	6	Mechanical CNC Drawing
MPE202	Engineering Measurements	BSE004	3	2		٣	5	Engineering Measurements
AUT301	Automatic Control	BSE101	3	2	2		4	Automatic control
AUT202	Mechatronics	MPE202	3	2		3	5	Mechatronics
MPE203	Heat Transfer	MPE100	٢	١		٣	4	transfer Heat
MDE301	Mechanical Vibrations	BSE006	3	2	2		4	Mechanical vibrations
MPE304	Internal Combustion Engines	MPE100	3	2		3	5	Internal combustion engines
OPE203	Electrical Machines	PLAZO101	3	2	2		4	Electrical Machines
ECE202	Introduction to Power Electronics	ECE101	3	2		3	5	Introduction to Power Electronics
MDE201	Stress Analysis	MDE101	3	2	1	1	4	Stress Analysis
AUT203	Vehicle Technology	AUT101	٣	2		٣	5	Automotive
AUT407	Embedded Systems	ECE302	٣	٢		3	5	Embedded

Total	60	37	12	49	96	Total
Total Credit Hours 60		Total Contact Hours 95				

of Specialization Requirements General (٣٠)Table No.
(credit hours ٩)Elective Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
AUT221	Computerized Maintenance Management		٣	٢	٢		4	Computer Maintenance Department
AUT222	Automotive Body Design and Analysis	MDE201	3	2	2		4	Analysis and design of the body structure of cars
AUT223	Vehicle Aerodynamics	MPE103	٣	2	٢		4	Vehicle aerodynamics
AUT224	Operations Research		3	2	2		4	Operations Research
AUT225	Hydraulic and Pneumatic Control Systems	MPE103	٣	2	٢	١	5	Pneumatic and hydraulic circuit control systems
AUT421	Signal Analysis	AUT202	٣	2		٣	5	Signal Analysis
AUT423	Spare Parts Inventory Management	AUT203	٣	2	٢		4	Spare Parts Inventory Management
Total								Total
Total Credit Hours 9				Total contact hours (12 – 14)				

Specialization Requirements Courses (45 credit hours)

for the Specialization of Requirements (٣١)Table No.
(credit hours ٣-٣)Compulsory Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec	Does	Lab	∑	

AUT101	Automotive Engineering Laboratories	32 Cr. hr	1			3	3	Automotive Engineering Laboratories
AUT302	Automotive Electrical Circuits and Systems	AUT203	3	2		3	5	Automotive electrical systems and circuits
AUT303	Electric and Hybrid Vehicle Technology	AUT203	٢	١		٣	4	Electric and hybrid vehicle technology
AUT304	Automotive Chassis Design	MDE201	٣	2	٢		4	Car chassis design
AUT305	Automotive Fault Diagnosis	AUT203	3	2		3	5	Diagnosis of car malfunctions
AUT306	Performance of Electric and Hybrid Vehicles	AUT303	3	2	2	-	4	Performance of electric and hybrid vehicles
AUT401	Field Training	100 Cr Hr	٢			٦	6	Field Training
AUT402	Vehicle Dynamics	MDE301	3	2	2		4	Vehicle dynamics
AUT403	Automotive Maintenance	AUT305	3	2		3	5	Car Maintenance
AUT404	Automotive Mechatronics Systems Design	AUT301	٣	٢	٢		4	car Design of control systems
AUT405	Graduation Project -1	128 Cr Hr	3	2		3	5	Graduation ١ -Project
AUT406	Graduation Project -2	AUT405	4	2	1	3	6	Graduation ٢ -Project
Total			٣٣	١٩	٩	٢٧	55	Total
Total Credit Hours 33				Total contact hours 55				

Specialization Requirements of Elective (٣٢)Table No. (credit hours 12) Courses

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
AUT226	Automotive Powertrain Systems	AUT203	2	1		3	4	Power Transmission Systems
AUT331	Automotive Engines Alternative Fuels	MPE304	2	2		1	3	Engine Car Fuel Alternatives

AUT332	Automotive Air Conditioning	MPE203	3	2		3	5	Auto conditioning
AUT333	Automotive Pollution Control	MPE304	2	2			2	Methods of car controlling pollutants
AUT334	Automotive Preventive Maintenance	AUT303	2	2			2	Preventive Maintenance of Cars
AUT335	Vehicle Energy Storage Systems	AUT303	٢	2			2	Vehicle Energy Storage Systems
AUT431	Automotive Power Electronics	ECE202	3	2	1	2	5	Automotive Power Electronics
AUT432	Intelligent Vehicle Technology	AUT404	٣	٢	٢		4	Smart Auto Technology
AUT433	Automotive Accident Analysis	AUT402	2	2			2	Car Accident Analysis
AUT434	Automotive Safety Systems	AUT402	٢	٢			2	Car Safety Systems
AUT435	Automotive Communication Systems	ECE202	2	2			2	Automotive Communication Systems
AUT436	Fuel Cell Technology	AUT331	2	2			2	Fuel cell technology
Total								Total
Total Credit Hours 12				Total contact hours (12 – 20)				

General Specialization Requirements Courses Project and Construction Management Engineering Program (69 credit hours)

Compulsory General Major Requirements (٣٣)Table No. (credit hours ٦٣)

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
SPE001	Production Technology		2	1	--	2	3	**Production technology**
SPE041	Principles of Electrical & Mechanical Engineering		2	2	1		3	**Principles of Electrical and Mechanical Engineering**
SPE101	Civil Drawing	BSE008	3	1	4	--	5	**Civil Fee**
SPE111	Structural Analysis 1	BSE006	3	2	3		5	**Structural ١Analysis**
SPE112	Properties of Building Materials (1)		3	2	2	1	5	**Properties of Building (١)Materials**
SPE113	Structural Analysis (2)	SPE111	3	2	3		5	**Structural (٢)Analysis**
SPE114	Plane and Construction Surveying		2	1	1	2	4	**Planar area**
SPE203	Soil Mechanics		3	2	2	1	5	**Soil mechanics**
SPE205	Principles of Hydrology & Fluid Mechanics		2	1	2		3	**Principles of Hydrology and Fluid Mechanics**
SPE212	Reinforced Concrete (1)	SPE113	3	2	3		5	**Reinforced (١)concrete**
SPE213	Properties of Building Materials 2	SPE112	3	2	2	1	5	**Properties of Building ٢Materials**
SPE215	Reinforced Concrete (2)	SPE212	3	2	3		5	**Reinforced (٢)concrete**
SPE302	Highway and Airport Engineering	SPE114	3	2	2		4	**Roads and Airports Engineering**

SPE303	Construction Project Specifications, Bids and Contracts	SPE215 & SAE305	2	2	1		3	**Specifications, quantities and contracts**
SPE304	Sanitary Engineering	SPE205	3	2	2		4	**Sanitary Engineering**
SAE302	Reinforced Concrete (3)	SPE215	2	1	3		4	**Reinforced (٣)concrete**
SAE303	Design of Steel Structures (1)	SPE113	2	2	1		3	**Design of metal (١)structures**
SAE304	Design of Steel Structures (2)	SAE303	2	2	1		3	**Design of metal (٢)structures**
SAE305	Design of Foundations	SPE203 & SPE212	3	2	2		4	**Foundation Design**
SAE306	Building Maintenance & Repair	SAE302 & SAE305	2	2			2	**Maintenance and repair of facilities**
CPE202	Egyptian Code of Project Management		2	2			2	**Egyptian Code for Construction Projects Management**
CPE204	Cost Estimating in Construction Projects		2	2			2	**Cost estimation in construction projects**
CPE212	Project Planning, Scheduling and Control	CPE204	2	1	2		3	**Planning, scheduling and project control**
CPE213	Construction Economics	CPE202 & CPE204	2	2	1		3	**Construction Economics**
CPE214	Building Legalization	CPE202	2	2			2	**Legislation and laws governing the construction industry**
ICT001	Information Technology & Information Management Systems		2	2			2	**Information Systems Technology and Management**
ICT301	Structural Computer Aided Drafting Applications	SPE101	2	1		3	4	**Computer Structural Drawing Applications**

Total	**63**	**47**	**40**	**10**	**96**	**Total**
Total Credit Hours: 63		**Total contact hours: 96**				

٤) (١)Major Requirements Elective General (٣٤)Table No. (credit hours

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
SPE243	Photogrammetry & Remote Sensing	SPE114	2	2			2	**Photogrammetry and remote sensing**
SPE244	Services Management		2	2			2	**Services & Facilities Management**
SPE441	Housing Projects	CPE202	2	2			2	**Housing Projects**
SPE246	Applications of Electro-Mechanical Engineering in Projects	SPE002	2	2			2	**Electromechanical Engineering in Applications Projects**
SPE247	Architectural Design & Applications		2	2			2	**Architectural design and its applications**
SPE442	Wastewater Treatment Plants & Networks	SPE304	2	2			2	**Water Treatment Networks and Plants**
Total			**4**	**4**	**--**	**--**	**4**	**Total**
Total Credit Hours: 4				**Total contact hours: 4**				

General Specialization Elective (٣٥)Table No. (credit hours ٢) (٢)Requirements

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ICT411	Computer Applications in Digital Architecture	SAE305 & ICT101	2	1		2	3	**Computer applications in the field of digital architecture**
ICT412	Computer-Aided Applications in Electromechanical works	ICS401	2	1		2	3	**Computer applications in the design of electromechanical**

								works
Total			**2**	**1**	**0**	**2**	**3**	**Total**
Total Credit Hours: 2				**Total contact hours: 3**				

Specialization Requirements Courses (46 credit hours)

Requirements for Specialization of (٣٦)Table No.
(credit hours ٤٢) Courses Compulsory

Course Code	Course Title	Pre-requisites	Cr. hr.	Contact Hours Contact Hours				Course Name
				Lec.	Does	Lab	∑	
ADT205	Concepts of Sustainability and Green Architecture	CPE111	2	2			2	**Concepts of sustainability and architecture green**
JAN319	Sources of New and Renewable Energy and their uses		2	2	1		3	**New and renewable energy sources and their applications**
CAE304	Management of Construction Sites	CPE202 & CPE204	2	1	2		3	**Construction Site Management**
CAE305	Total Quality Management in Projects	CPE202 & CPE204	2	1	2		3	**Total Quality Management in Projects**
CAE306	Health, Safety and Environmental Management		2	1	2		3	**Occupational Health and Safety and Environmental Adaptation Management**
CAE307	Resources Planning and Scheduling		2	1	2		3	**Planning and scheduling resources in projects**
CAE308	Risk Management in Construction Projects	SPE212	2	2	1		3	**Risk Management in Construction Projects**
CAE309	International Construction Contracts Management	CPE202	2	2	1		3	**International Construction Contract Management**
CMS401	Value Engineering & Applications		2	2	1		3	**Value engineering and its applications**
CMS417	Financial Planning and Feasibility Studies		2	2	1		3	**Financial planning for projects and**

								preparation of feasibility studies
CPE103	Building Systems & Construction Methods & Equipment		2	2	1		3	**Building systems, construction methods and equipment**
CPE111	Principles of Regional & Urban Planning		2	2	1		3	**Principles of Urban and Planning Regional**
CPE211	Systems Analysis & Operations Research in Projects	CPE204	2	2	1		3	**Systems Analysis and Operations Research in Projects**
CPE215	Formworks & Temporary Structures	SPE111	2	2			2	**Formwork and temporary installations**
CPM118	Practical Training (on Campus)		1			3	3	**Field Training within the) (Faculty**
CPM401	Graduation Project (1)	112 Cr hrs & project subjects	4	2	2	2	6	**Graduation ١Project**
CPM402	Graduation Project (2)	CPM401	4	2	2	2	6	**Graduation ٢Project**
ICT302	Computer Applications in Project Management	ICT001	2	1		2	3	**Computer applications in project management**
ICT401	Application of BIM Modeling in Construction Management	SAE111 SAE213	3	2	1		3	**Integrated Building Information Modeling and its Applications in Construction Projects**
Total			**42**	**31**	**21**	**9**	**61**	**Total**
Total Credit Hours: 42			**Total contact hours: 61**					

٤)Optional Specialization Requirements (٣٧)Table No. (credit hours

Course	Course Title	Pre-	Cr.	Contact Hours	Course Name

Code		requisites	hr.	Contact Hours				
				Lec.	Does	Lab	∑	
CMS301	Management of Industrial Projects and O&M processes		2	2			2	**Industrial Project Management and Operation and Maintenance**
CMS415	Selective Topics in Project Management-1	**120cr hr**	2	2			2	**Special Course Project in ١ = Management**
CMS416	Selective Topics in Construction Management-2	**120cr hr**	2	2			2	**Special ٢Rapporteur in Construction Management**
CMS418	Claims and Disputes Management in Projects	**CPM309**	2	2			2	**Claims management and project resolution in projects**
CMS420	Institutional Management of Construction Companies	**120cr hr**	2	2			2	**Corporate management of construction companies**
Total			**4**	**4**	**0**	**0**	**4**	**Total**
Total Credit Hours: 4				**Total contact hours: 4**				

Part V

Services provided by Youth Welfare

Chapter V: Services Provided by Youth Welfare

Student Union

1. The Student Union is the legitimate representative through whose committees students practice their various activities.
2. The Union shall form from the students of the Faculty the two systems enrolled in it to obtain a bachelor's degree and pay the Union fees.
3. International students who have paid the Union's fees shall have the right to practice aspects of the Federation's activity without having the right to nominate or elect.
4. The Student Union Council works to achieve the objectives of the Union through its following committees:
   - The Families Committee works on the families in Faculty and support their activities
   - The Sports Activity Committee works on the formation of sports teams and the promotion of sports of all kinds through the work of periodic competitions between different teams and sections.
   - The Cultural Activity Committee works to organize aspects of cultural activity.
   - The artistic activity committee works to develop the artistic activity of students.
   - The Scout Committee works to organize the detection and guidance movement.

- Social Activity and Trips Committee works to develop social ties
- Each committee of the Union is formed annually under the chairmanship of a pioneer of faculty members (appointed by a decision of the Dean of the Faculty) and the membership of two students for each study group elected annually by the students of their study group by secret ballot and students elect members of each committee, including a secretary and an assistant secretary and attend the meetings of the committees all the technical apparatus for youth welfare in the Faculty .

The Student Union Council at the Faculty shall have the following competencies:

- Drawing up the Union's policy in the light of the programs submitted by the committees
- Approving the work programs of the committees of the Federation Council and following up on their implementation
- Distributing financial appropriations to committees and setting the annual budget
- Adoption of the final accounts of the Union
- Coordination of work between the committees of the Union
- Work on documenting the races with the student unions in other Faculty s
- Election of a secretary and an assistant secretary of the Federation Council from among its members.

The Student Union Council of the Faculty is formed annually under the leadership of the Dean of the Faculty or his representative and the membership of:

1. Pioneers of the committees of the Union Council of faculty members
2. Secretaries and assistants of the student committees of the Union Council
3. The students elect members of the Council, including a secretary and an assistant secretary of the council.
4. The meetings of the Council shall be attended by the head of the technical apparatus for youth welfare at the Faculty and shall be the treasurer
5. The Dean of the Faculty appoints one of the chartered accountants to review the final account of the Student Union in the Faculty

Conditions of membership in those who apply for membership of the Federation Council: -

1. To have the nationality of the Arab Republic of Egypt
2. To be characterized by good manners and good reputation
3. To be a new student in his band
4. To be paid for the Union fees
5. He must not have been sentenced to a custodial penalty
6. The Council of Unions and its committees are elected no later than the end of November of each year and a decision is issued by the President of the University to determine the appropriate dates for the elections for the different levels, and no student is entitled to

cast his vote unless he is recorded in the lists of student voters and holds proof of identity.

7. It is required to accompany the elections in the committees of student unions to attend at least 50 percent of the students who have the right to vote, if the number is not completed, the elections are postponed to another date within three days at most, and in this case the validity of the election is required to attend at least 20 percent of the voters.
8. The pioneer of the Union Council or the Committee is responsible for preparing agendas, calling for convening, managing the session, following up the implementation of decisions, and notifying the decisions to the Vice Dean for Education and Student Affairs, the Dean of the Faculty or the Vice President for Education and Student Affairs, as the case may be, as soon as they are issued.

Student Families Registration

1. The family leader, after its formation, submits a family registration application specifying the name of the family leader from the faculty members and his written consent to lead the family and with a list of family members so that no less than 20 students as well as the minutes of the general assembly of the family.
2. Membership forms showing the membership conditions are filled out approved by Student Affairs and the family leader.
3. The application for family formation shall be submitted to the General Commander of the Union for approval.

4. The family pays the prescribed registration fee after the approval of the General Leader of the Union and then completes the registration papers (Family Program)
5. The approval of the General Leader of the Union is obtained before practicing any family activity.

Formation of the roving clan

1. Announces at the beginning of the year the formation of the mobile clan
2. Those wishing to register their names apply
3. A camp is held to test the members of the clan under the supervision of the roving official after the formation of the clan can practice scouting activity, after the approval of its activity by the general leader of the Union

Cultural competitions

The Faculty organizes cultural competitions throughout the academic year in accordance with the cultural programs prepared by the Department of Student Welfare and the cultural committees of the Union and student families and these competitions revolve around religious research and national and social research that are held in the events of the Dita and national and committees are formed to arbitrate these competitions includes senior writers and thinkers under the supervision of Dr. pioneer of cultural activity in the Faculty also monitors valuable prizes for these competitions as the Faculty participates in cultural competitions organized by the Supreme Council for Youth and Sports as well as General control of youth at the university.

Cultural and artistic seminars

The Faculty organizes cultural and artistic seminars according to the programs prepared by the Student Welfare Department, the cultural committees of the Union and student families, to which senior writers, thinkers and specialists with rare experiences in the cultural and artistic fields are invited, under the supervision of Prof. Dr. General of the Union and Dr. Pioneer of cultural activity in the Faculty

Holding student exhibitions

The Faculty union or any family may hold a student exhibition, provided that the following rules are observed:

1. The exhibition should be held during the academic year
2. The exhibition should be held inside the Faculty buildings
3. The exhibition should be limited to books, written and engineering tools, scientific devices and teaching aids
4. The organizer of the exhibition must submit a letter to obtain the approval of the Faculty to hold the exhibition, indicating the nature of the exhibition, its location, the required area, its duration and the date of its opening, at least two weeks before the date.
5. The pioneer of the family shall be responsible for the implementation of the provisions of these regulations for the exhibitions organized by the family, as well as for the pioneer of the union in the case of holding exhibitions in the name of the union.
6. The General Administration of Youth Welfare at the university is notified of the exhibition as soon as it is approved to hold it, and the General Administration of Youth Welfare at the university and the youth departments in the faculties follow up the activity of the

exhibition and the extent of its commitment to the provisions of the regulations and inform the Dean of the Faculty of any waste.

7. The University Security Department is notified by the Youth Welfare Department of the duration, opening date, nature and place of the exhibition well before the opening.
8. The fees determined by the Faculty are paid for the right to use the exhibition venue and these fees are collected in favor of the Student Union.

Scientific and recreational trips

1. Scientific and recreational trips are organized according to the youth welfare program, which is prepared every year under the supervision of Prof. Dr. Raed General of the Federation and Dr. Raed of the Trips Committee, and these trips are supported by the Supreme Council for Youth and Sports and the budget of the Federation.
2. This is in addition to what is organized by the Trips Committee of the Union and also by student families of scientific and recreational trips.

Formation of sports teams

At the beginning of each year, the formation of sports teams is announced, so that the procedures for forming sports teams are as follows:

1. Applications for participation in sports teams (each game separately) are accepted.

2. A committee is formed that includes the pioneer of the sports committee and the sports supervisor to conduct the qualifiers in each game and choose the most suitable elements to represent the Faculty later.
3. A committee is formed to buy sports team clothes
4. Sportswear is distributed to team members according to a distribution list and according to the available capabilities
5. A schedule is prepared for the activity in each game.

Other student services provided by the youth welfare Faculty .

Social Solidarity Fund

Forms the boards of directors of the Social Solidarity Fund in the Faculty headed by Prof. Dr. Vice Dean for Education and Student Affairs and his membership

- Two faculty members (selected by the Faculty Council)
- Head of the Technical Staff for Youth Welfare at the Faculty

Objectives of the Fund

- Achieving social security for students in its various forms.
- Contribute to the implementation of student services.
- Work to solve the problems facing students in their studies due to the deficit of their financial income.

Fund Resources

- Drawing a fund for student assistance performed by students.
- 20% of the fee allocated to the Student Union.

- Subsidies allocated to the Fund.
- Donations accepted by the Fund's Board of Directors.

Fund Services

The Fund provides in-kind subsidies to students such as:

- Payment of accommodation fees in the university city.
- Payment of tuition fees.
- Assistance in obtaining scientific books, scientific and compensatory devices and the looks that the student needs in his studies.

How to get these services

- The student withdraws the special form from the department
- The form is returned to the department after completing and approving it from Student Affairs to clarify the type of assistance required
- The form is presented to the Fund's Board of Directors for the assistance report.

Fortified diets

The General Administration of Student Welfare at the university, in agreement with the university cities, makes subsidized meals to be distributed to students during the school day as follows:

- Meal booking is announced weekly.
- Lists of the names of the checkpoints shall be prepared after payment of the prescribed fee.
- The youth control is notified of the checklist lists to obtain bonuses.

- Reservation bonuses are delivered to students in the department.

Therapeutic Services

There is a medical unit in the university city of the General Administration of Medical Affairs at Helwan University, and the student who pays the tuition fees for the academic year and holds his card and attached to his picture can frequent the therapeutic unit and extract his own file in the unit, and from the medical services provided by the medical supervision, and sign the medical examination on it (internal and dental) and the unit transfers the student to the University Student Hospital in Helwan for medical examination (in the branches of surgery - Ophthalmic skin - venereal diseases - bones) and treatment prescriptions are disbursed from the unit pharmacy or its bills are disbursed if it is not in the pharmacy.

The first aid department of the unit works throughout the school day until half past three in the afternoon and ambulances students from fainting cases and carry out refurbishments and give the right.

Library

The Faculty library is one of the libraries specialized in engineering sciences and the library was established since the inception of the Faculty in 1955 and begins to work from nine in the morning to four in the afternoon and the library is supervised by the Libraries Committee, which is headed by Prof. Dr. Vice Dean for Graduate Studies and Research Affairs and is managed by the head of the department assisted by a number of secretaries with higher qualifications trained to work in the field of libraries and holders of training courses in the libraries of the scientific departments of the Faculty , and the library

consists of A main library followed by branch libraries for the scientific departments of the faculty.

The Faculty library is located on the ground floor in the administrative building of the Faculty and serves researchers from faculty members and students as well as Faculty employees to benefit from its holdings as the library all kinds of library services inside and outside the library, foremost of which is internal access and external borrowings and provide all possible answers to any inquiry The library also makes a subscription for the library after filling out a special form for the student showing the name, residential address, ID number and expense payment voucher number, and the library contains an organized index For all library materials in the library and includes cards for the author and the title, and the main library and branch libraries contain a valuable collection of books and important specialized references, encyclopedias, dictionaries and scientific periodicals in addition to a special part of literary and social materials, philosophical sciences and religions.

The library has been updated by connecting it through a network of communications to all libraries of engineering faculties in Egyptian universities, in addition to its direct connection to the library (Virginia Technological University) through the computers in the library, which have been connected directly to these universities, where the student can access any of these libraries and see their contents of books, scientific theses and documents, as well as obtaining them as publications.

Computer Labs

Has been updated the establishment of laboratories for the Internet made a gift to the Faculty from the telecommunications company and there are 24 computers connected to the Internet and the use of the laboratory is available to all students of the Faculty and graduate studies at any time and this laboratory is located on the first floor building architecture and civil. In addition to the computer and Internet laboratory located in hall (4) in the mechanics building and there are twenty devices connected to the Internet and available to all students to use the laboratory in non-laboratory hours listed in the tables know-how and there is a list of students' use of the computer lab and the Internet can be identified by the employees and engineers of the laboratory.

As for the computer laboratories in the administration building , which number (4), including a laboratory for postgraduate studies and the other laboratories for undergraduate students, a number of computer laboratories have been modernized and established at the Faculty level, which have been connected to Internet services , which are distributed over the various Faculty buildings. These laboratories are available to all Faculty and graduate students at any of the working hours in a manner that does not conflict with the laboratory hours listed in the study schedules, and the student can use the laboratory. These laboratories are located in the places shown by table.

University Hostels

Admission requirements for university cities

1. The student should not be a resident of Greater Cairo.
2. The student must be fit for health and not be sick with one of the chronic or psychological infectious diseases.

3. The student should not have been sentenced to one of the disciplinary sanctions mentioned in Article 126 of the Executive Regulations.
4. The student should not have been subject to the penalty of warning, deprivation of residence, temporary deprivation penalty in the immediately preceding year, or the penalty of final deprivation of residence.
5. The student should not have expired his residence permit from the city due to the non-payment of the residence fees.
6. The student should not be married.

University hostel admission rules

1. For old students: they are accepted at the discretion of the previous year
2. For new students
3. They are accepted according to age starting from the younger age and geographical distance
4. 15% is allocated to sick and social cases in which social research proves the eligibility of their owners to reside in university cities.

PART VI

Disciplinary Violations

Chapter VI: Disciplinary Violations

Disciplinary Violations and Criminal Penalties

Faculty students are subject to the disciplinary system in accordance with the university regulations, which are considered a disciplinary violation for any violation of university laws, regulations and traditions, in particular:

1. Acts that violate the system of the Faculty or university facilities.
2. Disrupting or instigating the study or refraining from attending classes, lectures and other work that the regulations require attendance.
3. Any act that contradicts honor and dignity or violates good conduct inside or outside the university.
4. Any breach of the examination system or the necessary calm for it and any cheating in an exam or its initiation.
5. Any destruction or dissipation of facilities, devices, materials or university books.
6. Any organization of associations within the university or participation in them without a previous license from the competent university authorities.
7. Distributing leaflets or issuing wall newspapers in any way in Faculty s or collecting signatures without a previous license from the competent university authorities.
8. Sit-ins inside university buildings or participation in demonstrations contrary to public order or morals.
9. Every student who commits cheating "in an exam or initiation" in it and is caught in flagrante delicto directed by the Dean or his

representative from the examination committee and is deprived of entering the exam in the rest of the subjects and the student is considered a failure "in all the subjects of this semester and referred to the disciplinary board.

In other cases, the exam is invalidated by a decision of the Disciplinary Board or the Faculty Council, and it results in the invalidity of the academic degree if it was granted to the student before the detection of cheating.

Disciplinary sanctions

1. Warning orally or in writing
2. Alarm.
3. Deprivation of some student services.
4. Deprivation from attending the lessons of a course for a period not exceeding one month."
5. Dismissal from Faculty for a period not exceeding one month."
6. Denial of examination in one or more courses.
7. Suspension of student enrollment for a period not exceeding two months or for a semester.
8. Cancel the student's exam in one or more courses.
9. Dismissal from the Faculty for a period not exceeding one semester
10. Denial of the student entering the exam in one semester or more.
11. Depriving the student from enrolling for a master's or doctoral degree for a semester or more.
12. Dismissal from the Faculty for a period of more than one semester.

13. The final dismissal from the university and the decision of dismissal is communicated to other universities and results in the student's invalidity to enroll or apply for the exam in the universities of the Arab Republic of Egypt.

- It is permissible to order the announcement of the decision issued for the disciplinary sanction, except for the oral warning in the student's file.
- Decisions issued for disciplinary punishment except for oral warning shall be kept in the student's file
- The University Council may reconsider the decision issued for the final dismissal after at least three years have passed from the date of issuance of the decision.

Appendices

Request for Registration Certificate

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

Introduction to your Excellency the student/

---------- / Band

Ghasm/ ----------

Please kindly approve the issuance of a registration certificate to be addressed to/ ----------

Yours sincerely ,

Student Name

Band

---

section

Request to suspend a constraint

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

Introduction to your Excellency the student/ ----------

---------- / Band

Ghasm/ ----------

I kindly ask you to agree to accept the suspension of my registration for the academic year 20/20 due to .....

Yours sincerely ,

Introduction to your
Excellency the student

Student Affairs Opinion

.....

Recommendation of the
Education and Student
Affairs Committee

Faculty Council Decision

Note : Applications submitted after 31/12 of each year will not be accepted.

Wish form to coordinate joining the scientific departments of the first year at the Faculty of Engineering in Matareya

For the academic year 20/20

Student Name :	
Seating number in the middle school:	
Total grades and grades in the preparatory year:	

First desire					Second wish					Third desire					Fourth desire				
s	**Going to**	**on**	**D**	**t**	**s**	**Going to**	**on**	**D**	**t**	**s**	**Going to**	**on**	**D**	**t**	**s**	**Going to**	**on**	**D**	**t**

Student Signature: .....

Whereas :

Scientific Department	Code	Scientific Department	Code
Mechanical Power Engineering	s	Architecture	on
Automotive & Tractor Engineering	Going to	Civil Engineering	D
Department of Mechanical Design and Materials	t		

When writing down your wishes, please take into account the following:

1. Each student must specify the five wishes in the form or the wishes will be completed by the Faculty .
2. Only one department is specified in each desire, and in case of non-compliance, the Faculty will house the student in the places available in the departments with its knowledge.
3. If the forms (to the Student Affairs Office) are not delivered on time, the student's desire to choose will not be met and no attention will be paid to a form submitted after this date, and the student will be distributed according to the available from the departments' capacity.

Some important notes to consider are the following:

1. The student's wishes are met according to the rules of coordination and the absorptive capacity of each department and according to the totale Faculty in the preparatory year and according to the order of his desires in the form.
2. Any student from the Faculty of Engineering in Matareya who wishes to join a department affiliated with the Faculty of Engineering in Helwan must do the transfer procedures followed to transfer from one Faculty to another.
3. Students wishing to transfer are advised to fill out the form in case they are not sure of the approval of the Faculty to which they are transferred.

4. For inquiries or assistance, please refer to the Student Affairs Department at the Faculty .
5. This form is submitted to the Student Affairs Department at the Faculty no later than..... Corresponding to ...../...../201

With best wishes for success ,,,,

Vice Dean for Education and Student Affairs

Request to modify the desire of bifurcation for successful students in the preparatory year

Student Data

Full Name	.....	**Seating Number**	.....
National ID	.....	**phone number**	.....

Estimate data:

Estimating success in the preparatory year:	.....
Total student grades:	.....
Percentage Grade:	.....

	Current section after bifurcation:
	The section to be transferred to:

Student Signature:

.....

Date of application:

.....

Some important information

To modify the bifurcation, you must meet the conditions of the section to be converted to, which are:

1. **Your total score in the middle school year should be higher than the minimum for admission to this department**
   - **Department of Mechanical Power Engineering ..... degree**
   - **Department of Automotive and Tractor Engineering ..... degree**
   - **Department of Civil Engineering ..... degree**
   - **Department of Mechanical Design ..... degree**
   - **Department of Architecture (who passed the aptitude test)**
2. **Admission according to the absorptive capacity of each scientific department**

Request to modify the track for students who failed in the first year of the academic year (...../.....)

Student Data

Full Name	.....	**Seating Number**	.....
National ID	.....	**phone number**	.....

Estimate data:

Estimating success in the preparatory year:	.....
Total passing grades	.....
Grade percentage	.....

Current Department:	
The section to be transferred to:	

Student Signature:

.....

Date of application:

.....

Some important information

According to the decision of the University Council in its session No. (251) regarding the controls that must be met to transfer students from one division to another as follows:

1. **The student is allowed to transfer from one division to another division in the same Faculty in the band at which the bifurcation begins, and to meet the conditions of the division to which the bifurcation is transferred.**
2. **The student should have only one chance in the division to which he is transferred.**
3. **Admission according to the absorptive capacity of each scientific department**

Request for Dismissed Student Grades and Grades

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings.

I kindly ask you to agree to give me a statement of grades and estimates (certificate) of the semester, as I am dismissed from the Faculty in the academic year 20/20

Yours sincerely ,

Student Name

Band

---

section

Note

Delivery of the statement within three days of its submission

Transfer Statement Request

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly ask you to agree to give me a (transfer statement) as I am restricted to the ..... band
Section..... In order to submit it to /.....

Yours sincerely ,

Student Name

Band

---

section

Request for Registration Certificate in English

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly ask you to agree to give me a (registration certificate) in English, as I am restricted to the band..... Section..... In order to submit it to /.....

Yours sincerely ,

Student Name

Band

---

section

Request for Registration Certificate in Arabic

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly ask you to agree to give me a (registration certificate) in Arabic, as I am enrolled in the band..... Section..... In order to submit it to /.....

Yours sincerely ,

Student Name

Band

---

section

Excuse form for entering a course

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings.

I kindly ask you to agree to accept my apology for entering the exam today..... Corresponding to / / 20 in Article ..... Band ..... Section..... This is due to the circumstances of .....

Yours sincerely ,

Student Name

Band

---

section

Sick Excuse Form

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly ask you to approve the acceptance of (sick excuse) for the academic year 201/201 for (first semester / second semester).

Yours sincerely ,

Introduction to your
Excellency the student

---------- band

_____

section

Student Affairs Opinion

Recommendation of the Education and Student Affairs Committee

Faculty Council Decision

Request for Approval of Sick Leave for the Student

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly request you to approve the approval of the sick leave granted to me by the .....

And that in the period from / / 20 to / / 20

Yours sincerely ,

Student Name

Band

---

section

Student File Withdrawal Request

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly ask you to approve (withdrawing my file) from the Faculty , as I am (dismissed) from the Faculty a final semester.

Yours sincerely ,

Student Name

Band

---

section

Request to Change Student Residence

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings,

I kindly ask you to agree to change my place of residence recorded in my file in the Faculty from:.....

To:.....

Yours sincerely ,

Student Name

Band

---

section

- :The attachments indicating the change are

١. .....

٢. .....

3. .....

Request to Amend Student Name

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings.

I kindly request you to approve the amendment of my name contained in the Faculty lists from:

Student Name	Father's Name	Grandfather or surname

Into:-

Student Name	Father's Name	Grandfather or surname

Yours sincerely ,

Student Name

Band

---

section

-:The attachments indicating the change are

١. .....

٢. .....

3. .....

Request scientific content for a study group

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings.

I kindly ask you to agree to give me (scientific content) a band / section, in accordance with the regulations of ..... to be submitted to .....

Yours sincerely ,

Student Name

Band

---

section

Student Transfer Cancellation Form

Date//

Prof. Dr. / Vice Dean for Education and Student Affairs

Greetings.

I kindly ask you to agree to cancel my transfer from the Faculty of Engineering..... University To the Faculty of Engineering, ... University

Yours sincerely ,

Student Name

Band

---

section

Fraud report

Prof. Dr. Dean of the Faculty

It is on the day of: ..... Corresponding to / / .. 202 at exactly (:) and during the exam:

End of Semester Exam ☐ Practical exam ☐ Semester Business Exam ☐

For the course (course name) .... For Semester (.....) for the academic year 20/20

The student is set:

Full Name		**University ID**	
Band		**phone number**	

A street in cheating from a cell phone ☐

A street in cheating from a scrap of paper ☐

.... /Other ☐

Violation of the probation system and ☐ procedures or the calm required for it.

.....

.....

Referring to the course professor, it was found that the cheating tool contains:

Scientific material that is not related to the test. ☐

Scientific material related to the test material ☐

The student did not benefit from the cheat tool. ☐

And that the student has benefited from the cheating tool ☐

Accordingly, the following was done:

☐ The student was taken out of the exam hall and was deprived of completing the test

☐ The student did not leave the hall and completed the test

☐ I read out his actions to the student, approved them and signed the minutes

☐ I read out his actions to the student andrefused to sign the minutes

Based on the foregoing , the following was signed:

Student Name /	**Signature/**

Committee Observer:	
Name /	**Signature /**
Course Professor:	
Name/	**Signature/**
Chairman of the Examination Conduct Committee or the Committee Supervisor:	
Name/	**Signature/**

Acquaintance document for obtaining a graduation certificate or a certificate of appreciation

First: Personal Data

Name:	
National ID:	
Employer:	
Date of birth:	
Place of residence:	
Phone Number:	
Certificate submitted to:	

Graduation Data

Graduation Date:	
Graduation Roles (January/May/September):	
Scientific Department of the graduate:	☐ Department of Mechanical Power ☐ Department of Cars and Tractors ☐ Department of Architectural Engineering ☐ Department of Civil Engineering ☐ Department of Mechanical Design ☐ Energy Engineering Program ☐ Structural Engineering Program ☐ Digital Architecture Program ☐ Project Management and Sustainable Construction Program ☐ Automotive Mechatronics Engineering Program
GPA:	
Total cumulative scores:	
Bachelor's Grade:	

Graduation Project Appreciation:	

confession

I acknowledge: ..... that the data recorded above are correct .

This is an acknowledgment of that,,,

..... Signature