## STUDENT HANDBOOK 2024-2025



# THE EGYPTIAN CHINESE UNIVERSITY

FACULTY OF ENGINEERING AND TECHNOLOGY

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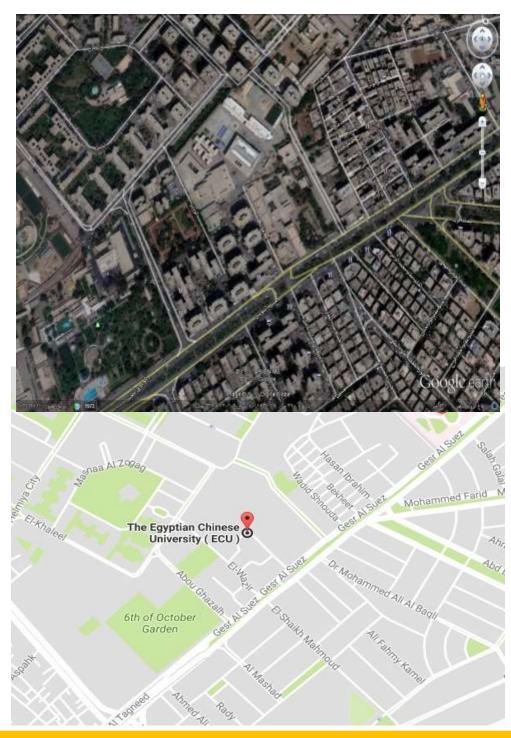


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# The Egyptian Chinese University Location

Address: Gesr El Suez St. behind Tagneed Bridge, Cairo, Egypt



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# About Faculty of Engineering and Technology

#### Vision

The Faculty of Engineering and Technology at the Egyptian Chinese University aspires to become a pioneer and distinguished in enhancing opportunities for creativity and innovation in the educational system, scientific research, and community service in the engineering fields.

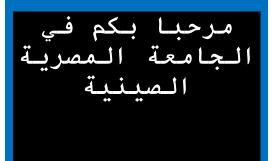
#### Mission

The Faculty of Engineering and Technology at the Egyptian Chinese University provides distinguished education in many modern engineering fields through programs that comply with international standards to meet the needs of the labor market in industrial and service institutions and national projects from engineers who are able to keep pace with scientific research.



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## Dean's Message

Welcome to the Faculty of Engineering and Technology (FET). Additionally, I would like to congratulate you on choosing the esteemed profession of Engineering at ECU.

Our faculty offers rich, experience-based education that our university has upheld since its founding with dedicated programs to prepare our students to become leaders with moral depth and intellectual capacity that meet the challenges of such an ample industry.

The university provides its students with unique opportunities to engage in a range of national and international competitions stimulating interaction with peers from other universities, all over the world. FET offers six unique yet congenial programs:

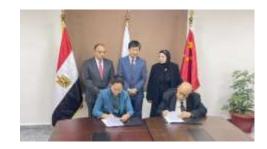
- Construction and Building Engineering.
- Energy and Renewable Energy Engineering.
- Software Engineering and Information Technology.
- Mechatronics Engineering.
- Petroleum and Gas Engineering. (On hold)
- Smart Architecture and Urban Planning Engineering. (Under construction)

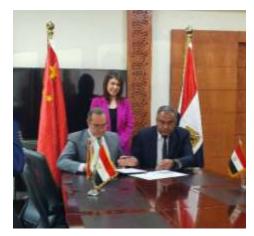
Furthermore, FET adopts knowledge transfer and knowledge commercialization philosophy, sparing no effort to design and enhance programs to maintain a strategic fit within the engineering education map conforming to world-class standards.

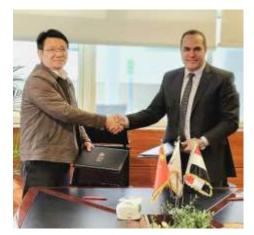
Best wishes to all of you to have success and happy memories.

## Prof. Dr. Mohamed Talaat Moustafa









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# Why ECU - Faculty of Engineering and Technology?

- The Egyptian Chinese University (ECU) is the only Chinese university in Egypt and the Middle East. The ECU offers high- demand study programs, thus, non-traditional fields of study are offered. The ECU maintains small student / faculty ratios and implements international standards in education. The ECU follows a practice-oriented teaching strategy; about 50% of the study load is in practical courses, which will give the ECU students the skills they need in any working environment.
- The Chinese technical expertise and advancement in the fields of study are ensured through cooperation with the Chinese Universities and other Chinese institutions. The agreements signed between the ECU and the Chinese universities provide students with the opportunity to exchange programs. Moreover, prime internship opportunities in Egypt and China.
- Being the first productive technological university in Egypt and the Middle East, the ECU is aiming to contribute to the intellectual growth, entrepreneurship, innovation, and disciplined character for the future leaders in Egypt and the Middle East.





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## Academic Scheme

- The academic program follows the credit hour system; each one credit hour is equivalent to one-hour lecture, or two hours tutorial or three hours lab.
- English is the official language of study at the faculty.
- To obtain a Bachelor of Science Degree (B.Sc.) in Engineering, the student is required to successfully complete 180 credit hours in one of the programs (145 HRs in the new plan), with a GPA - at graduation of at least 2.0 on a scale of 4.0.
- Students obtain B.Sc. Degree in one of the following program specializations:





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## Academic Description)

## Programs

(Brief

# Construction and Building Engineering (CBE)

The CBE Program aims to meet the needs of the Egyptian construction industry by preparing engineers to be familiar with the overall design of the built facilities. The Construction and Building Engineering department gives the student a chance to explore different phases of the life cycle of a building and develop an appreciation towards it as an advanced technological system.

Problems are identified and appropriate solutions are found to improve the performance of the building in areas such as: energy efficiency, passive solar engineering, lighting and acoustics, indoor air quality, construction management, advanced building materials, building envelope, earthquake resistance, wind effects on buildings and computer-aided design. However, during the current national effort, the job market needs civil engineers to render affordable and suitable housing for people.





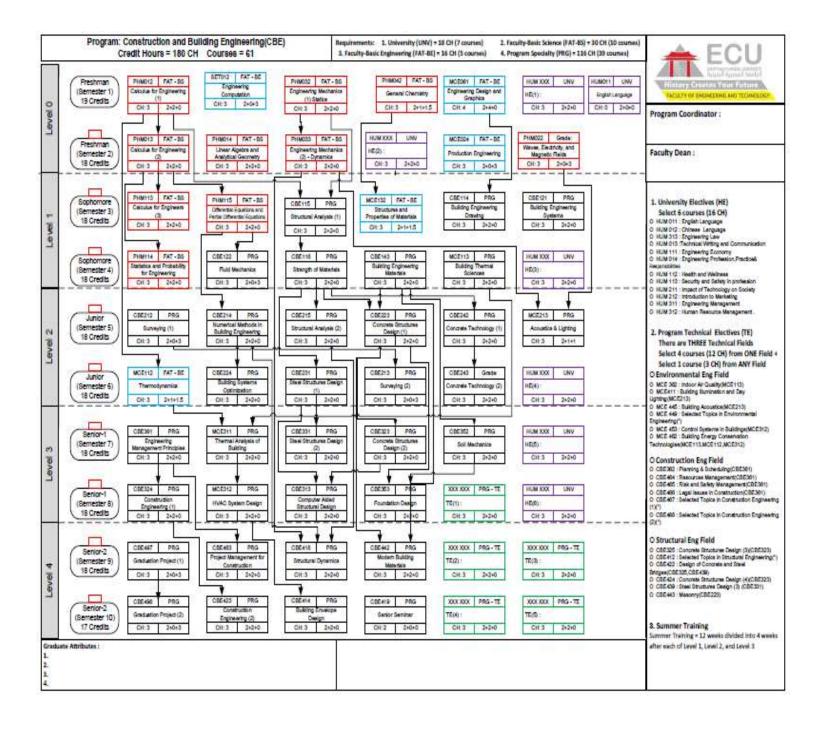
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# Road map of Construction and Building Engineering



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## Mechatronics Engineering Program (MCT)

The Mechatronics Engineering Program (MCT) is an interdisciplinary program that integrates mechanical, electrical, computer, and control engineering to design and develop intelligent systems and automated solutions. This program equips students with a robust foundation in key areas such as robotics, automation, and embedded systems, while also emphasizing hands-on experience through labs and projects. Students enhance their problem-solving and critical thinking skills, preparing them for careers in diverse fields such as manufacturing, automotive, and aerospace. The MCT program fosters innovation and collaboration and prepares graduates to meet industry challenges and adapt to rapidly evolving technologies. It ensures they are well-equipped for successful careers in mechatronics and related sectors. The program provides four different fields in which the students in this program can specialize in. These four fields are: Autotronics, Nanomechatronics, Industrial Mechatronics, and Bio-Mechatronics which Egypt needs to cope with the global modernization trends and push innovation to lead in the industrial, medical, and product development sectors. Accordingly, empowering the field of Mechatronics is our focus as it uses the great advancement in the sciences of electronics and computer engineering to enhance the safety, performance, and efficiency of modern mechanical systems.



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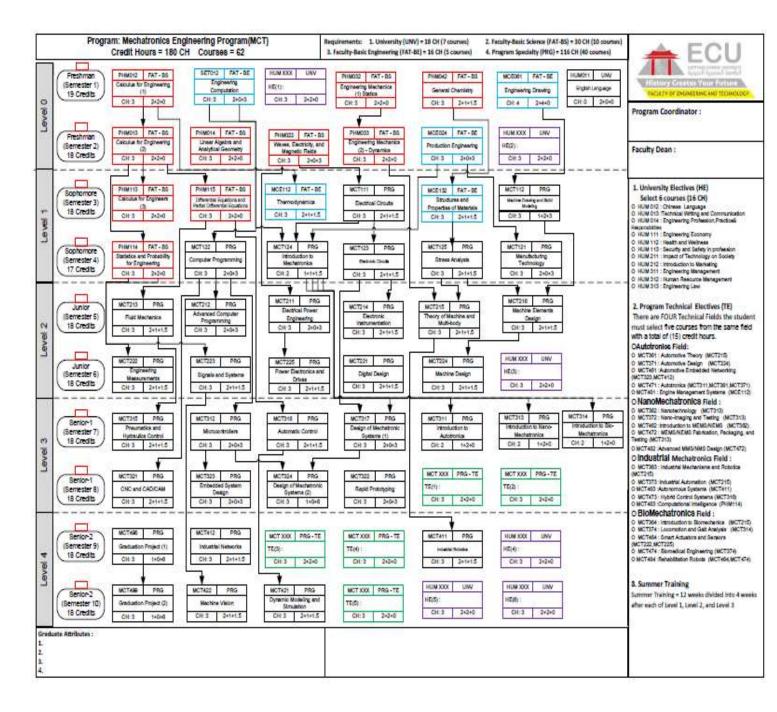








#### Road map of Mechatronics Engineering



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#### Energy and Renewable Energy Engineering Program (ERG)

The ERG Program focuses on conventional and new sources of energy available worldwide and within Egypt. Such sources comprise yet are not limited to solar, photovoltaic and wind energy. The program aims to prepare capable engineering candidates through familiarizing them with new cutting-edge technologies and a variety of energy sources and how they can be manipulated. Furthermore, within this program, appropriate solutions to existing problems are tackled for the effective use of new energy sources in different industrial areas; thereby reducing the dependence on fossil fuels and environmental pollution. The labor market in Egypt desperately needs engineers with this background, particularly in the framework of the national effort to provide energy at affordable energy prices.









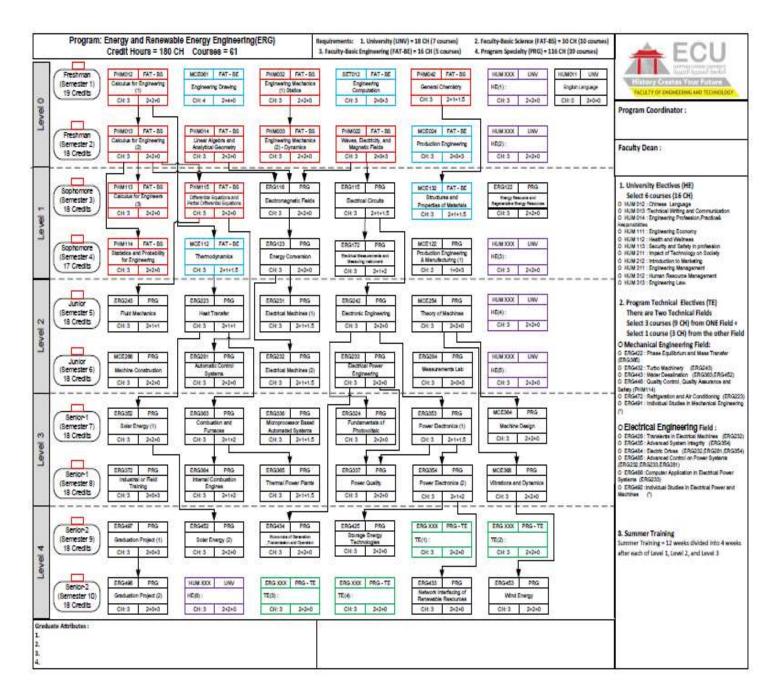


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#### Road map of Energy and Renewable Energy



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### Software Engineering and Information Technology (SET)

The Software Engineering and Information Technology (SET) program at the Egyptian Chinese University is designed to be a leader in the fastgrowing IT sector. It aims to graduate highly skilled engineers capable of solving complex computer and software engineering challenges. The program focuses on modern methodologies essential to the software industry, which plays a key role in the national and global economy.

Students will gain expertise in software engineering, distributed and mobile computing, embedded systems, computer security, and multimedia systems. This comprehensive skill set prepares graduates for a wide range of roles in the IT industry, enabling them to contribute to innovation and meet market demands on national, regional, and international levels.

Graduates from the SET program will be equipped to lead engineering projects in both private and public sectors, with promising career opportunities in software development, IT consulting, cybersecurity, and beyond.



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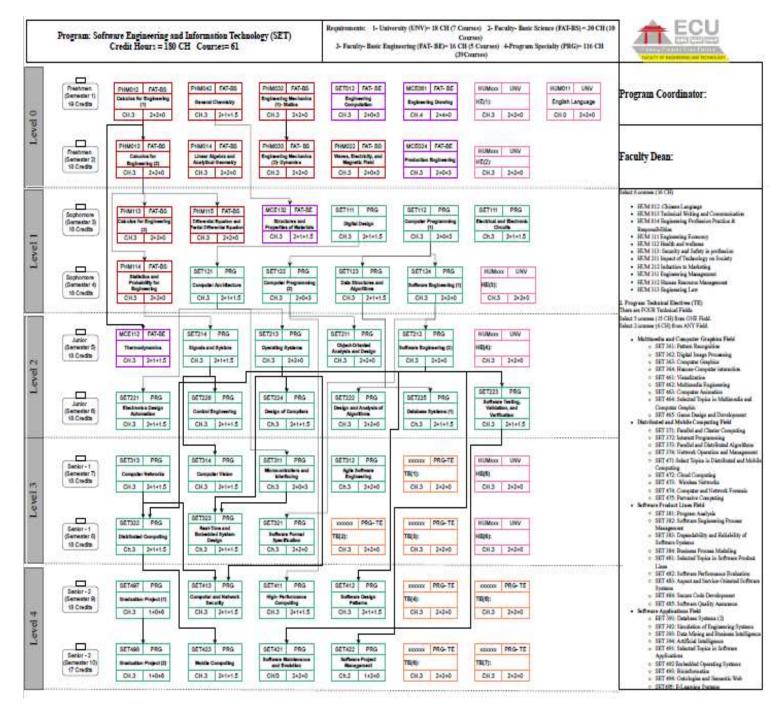








## Road map of Software Engineering and Information Technology



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## Petroleum and Gas Engineering (PGE)

On hold







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Smart Architecture and Urban Planning

Engineering (SAUP)

Under Construction









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## Academic Year Semesters

# The academic year comprises of two main semesters and a summer semester: -

- Students register for any semester, two weeks before the beginning of the semester.
- Registration is not final until the full tuition fees of the semester are paid.
- Registration in the "Summer Semester" is optional.
- The minimum allowed study duration is nine main semesters.
- The maximum allowed study duration is ten years, which does not include frozen semesters for reasons accepted by the faculty, after which the student is expelled from the faculty.











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## Academic Regulations

#### **Registration of Academic Courses**

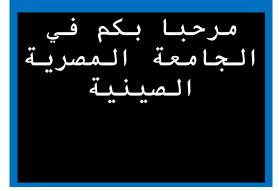
- In consultation with the academic advisor, the student is allowed to register for six courses (about 18 credit hours); whichever is greater, in the first or the second semester.
- Registration is not final until the student pays the educational service fees for the semester.
- The student may register in the summer semester for a maximum of three courses, with a maximum of 9 credit hours, unless the student is subject to conditional graduation, in that case, the student can register up to 12 credit hours.
- Students holding a GPA of 3.0 or higher can register for seven courses or up to 21 credit hrs.
- Students with a GPA of less than 2.0 are subject to placement under probation. They are eligible to register for up to four courses or 12 credit hours.
- Students are required to fulfill prerequisites for the courses they wish to register.





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#### Academic Advisor

- Each student is assigned an Academic Advisor who is one of the faculty members and may continue with the student for the whole study duration. The academic advisor is responsible to follow-up with the student and assists him in selecting courses each semester.
- The academic advisor may advise a student to repeat courses which they have already passed or register in additional courses to raise their cumulative GPA to graduation requirements.

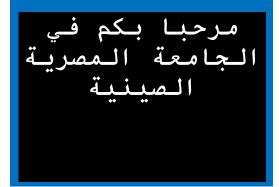
#### Course Drop, Add and Withdraw

- Students may add, drop, or exchange courses with other courses in the first two weeks from the start of the semester, with refundable fees (in case of drop).
- Add/Drop course(s) should not violate the minimum and maximum number of credit hours registered per semester.
- Add/Drop course(s) can be done during the first week of the summer semester.
- Students may withdraw from any course within the first 8 weeks of the semester, or the first four weeks of the summer semester. Tuition fees are not refundable in such cases.
- Withdrawn courses are not indicated as fail.
- Withdrawn course receives a (W) indication/grade and allows the student to register for the course (full attendance and performance of class activities including examinations) in a following semester, provided that the full course fees are paid.



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#### **Course Improvement and Repetition**

Students may repeat courses to improve grades, to satisfy the minimum passing requirement, according to the following rules: -

- The student is assigned the after-improvement course grade; given a cap of B+ (maximum grade) to be indicated in student's transcript.
- The student is allowed to improve up to five courses during their study duration. This applies except for courses aiming to get out of the academic-warning zone, or to satisfy the graduation requirements.

#### Appeals

- A student is allowed to appeal for course-grade reviewing within a week from grade announcement, and after paying the required fees.
- In case of general complaints, a committee that includes the course instructor is responsible for reviewing the students' grades.



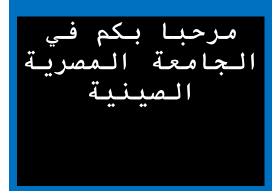


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#### Field Training (Summer Training)

Students are required to fulfill a total training-duration of up to 12 weeks in industrial or service facilities, related to the student's program, as follows: -

- The student training is divided into 4 weeks each summer at the end of the first, second, and third levels.
- Student Training for 6 weeks is allowed in only one summer during the study duration.
- The student Field training is evaluated on pass/fail basis and does not count in the accumulative GPA calculation.

# Calculation of the Grade Point Average (GPA)





**Point System:** Course points - achieved by the student - equal the number of credit hours of this course multiplied by the course grade points. The total points are equal to the sum of the courses' points, that the student successfully completes each semester.

**Semester GPA:** is equal to the total points achieved by the student in the courses taken each semester, divided by the total number of credit hours of these courses.

**Accumulative GPA** - at the end of any semester - is equal to the total points achieved by the student in all courses studied by the student, divided by the total number of credit hours of these courses.

The graduation cumulative GPA (CGPA) is calculated (after passing all the graduation requirements) by dividing the sum of all points of studied courses by the sum of credit hours for these courses. The student cannot get the degree unless he achieves a CGPA of at least 2.0.

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#### Academic Warning and Dismissal

If GPA per semester is <2.0

Academic Warning: In such a case, students will not be allowed to register more than 12 credit hours in the following semester until they revoke the academic warning.

If cumulative GPA is < 2.0 in 6 consecutive semesters: excluding summer semester **Dismissal:** The Council of the Faculty of Engineering and Technology may allow the student under question to have a last registration opportunity for 2 consecutive semesters. The student can raise their cumulative GPA to 2.0 and achieve the graduation requirements; if they have successfully completed at least 80% of the total number of credit hours required for graduation. Students will be dismissed if they fail to achieve the graduation requirements during the maximum study duration, which is ten years from the date of commencement of studies.





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#### Grades of the Credit Hours based Courses

1		
	Percentage	Points
<b>A</b> +	97-100%	4.0
Α	93-96.9%	4.0
А-	89-92.9%	3.7
<b>B</b> +	84-88.9%	3.3
В	80-83.9%	3.0
В-	76-79.9%	2.7
C+	73-75.9%	2.3
С	70-72.9%	2.0
C-	67-69.9%	1.7
D+	64-66.9%	1.3
D	60-63.9%	1.0
F	<60%	0



The top 30 students in the Egyptian high certificate school mathematics section, who enroll in the credit hours program, are fully exempted from paying tuition fees in their first semester. To maintain this exemption in the following semesters, students are required maintain to a cumulative GPA of 3.6 or higher in every semester.

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#### Student Status

Student status and the study levels relative to the number of credit hours that the student completes are as shown below:

Study Level	Student Status	% Of completed credit hours
General (0)	Freshman	< 20%
First (1)	Sophomore	20-40%
Second (2)	Junior	40-60%
Third (3)	Senior-1	60-80%
Fourth (4)	Senior-2	80-100%

Whenever the student has completed 20% of the graduation requirements, he will be transferred from one level to a higher level (1-4).

#### Student Evaluation

- The grades of each course are distributed as percentages of the total grade according to the final written exam 40%, semester-work 60% which includes two semester exams, research, reports, quizzes, practical and oral exams.
- Students are required to attend at least 75% of the course lectures and tutorials, to be allowed to attend the final examination.
- For the final exam, the minimum passing grade is 30% of the total grade. If the student fails to achieve that, irrespective of the total grades he earned in the course, he will receive an F grade in the course.





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# Pillars of the Teaching, Learning, and Assessment Strategy

The Faculty of Engineering and Technology has established several key pillars on which the teaching and learning strategy is based, including:

- Interactive cooperative learning strategy, e-learning, and brainstorming.
- Self-learning strategy.
- Experiential learning strategy.
- Indirect teaching strategy.
- Traditional direct teaching strategy.

The evaluation and assessment process adopted by the Faculty of Engineering and Technology to measure student performance and assess the achievement of the intended learning outcomes is based on the following:

- Initial (Pre) Assessment, which includes:
  - Personal interviews.
  - Pre-tests.
  - Tests of prior learning requirements.
- Formative Assessment, conducted during the teaching process, which allows for rapid feedback to the instructor regarding the student's progress and capabilities. This process includes:
  - Data collection.
  - Data analysis.
  - Periodic review.
- Summative Assessment, which evaluates the extent to which learning outcomes have been achieved, aiming to take necessary actions for improvement and development through exams.

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## Assessment Methods:

The Faculty of Engineering and Technology utilizes a range of methods to evaluate the educational process, such as:

- Tests:
  - Achievement tests (oral and written).
  - o Laboratory tests.
  - $\circ$  Quick tests.
- Reports.
- Observations.
- Classroom discussions.
- Various types of projects.
- Student portfolios.

# Methods of paying expenses

	Bank Name	Account Number
1	البنك الأهلي المحري NATIONAL BANK OF EGYPT	1383070781166700010
2	بنــك أبـوظبــي الأول First Abu Dhabi Bank	003862930006
3		20330522216

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## **Student Disciplinary Actions**

Student actions requiring discipline	<ul> <li>Any actions that disturb the faculty or suspend study.</li> <li>Any disturbance to the order or atmosphere of exams.</li> <li>Any cases of cheating in an exam or attempting it.</li> <li>Any damage or cause of loss to faculty devices, materials or textbooks.</li> <li>Any issurance of newspapers without permission from the Vice President for Education and Student Affairs.</li> </ul>
	• Warning.
	• Denial of prescence in the lessons of a course.
	• Cancellation of the student's exam in one course or more.
<b>Student Disciplinary</b>	• Dismissal from the faculty for a month.
Actions	• Denial of taking exams in all subjects for one academic
	year or more.
	• Dismissal from the faculty for one academic year or
	more.
	• Final dismissal from the faculty.

#### Note:

A student may appeal the decision of the Discipline Committee by applying for an appeal to the Vice President for Education and Student Affairs within fifteen days from the date of issuing the decision. The high Discipline Committee has the authority to cancel or reduce disciplinary action when seen fit.

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