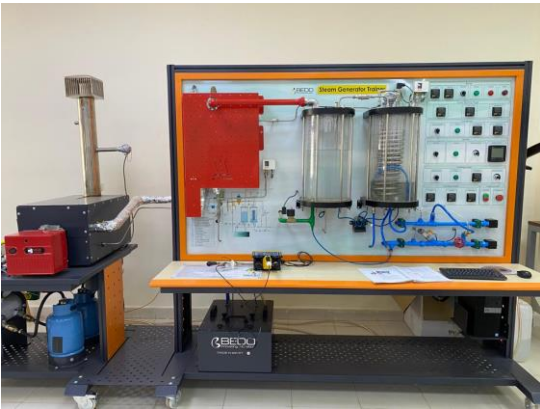


STUDENT HANDBOOK 2023- 2024



THE EGYPTIAN CHINESE UNIVERSITY

FACULTY OF ENGINEERING AND TECHNOLOGY

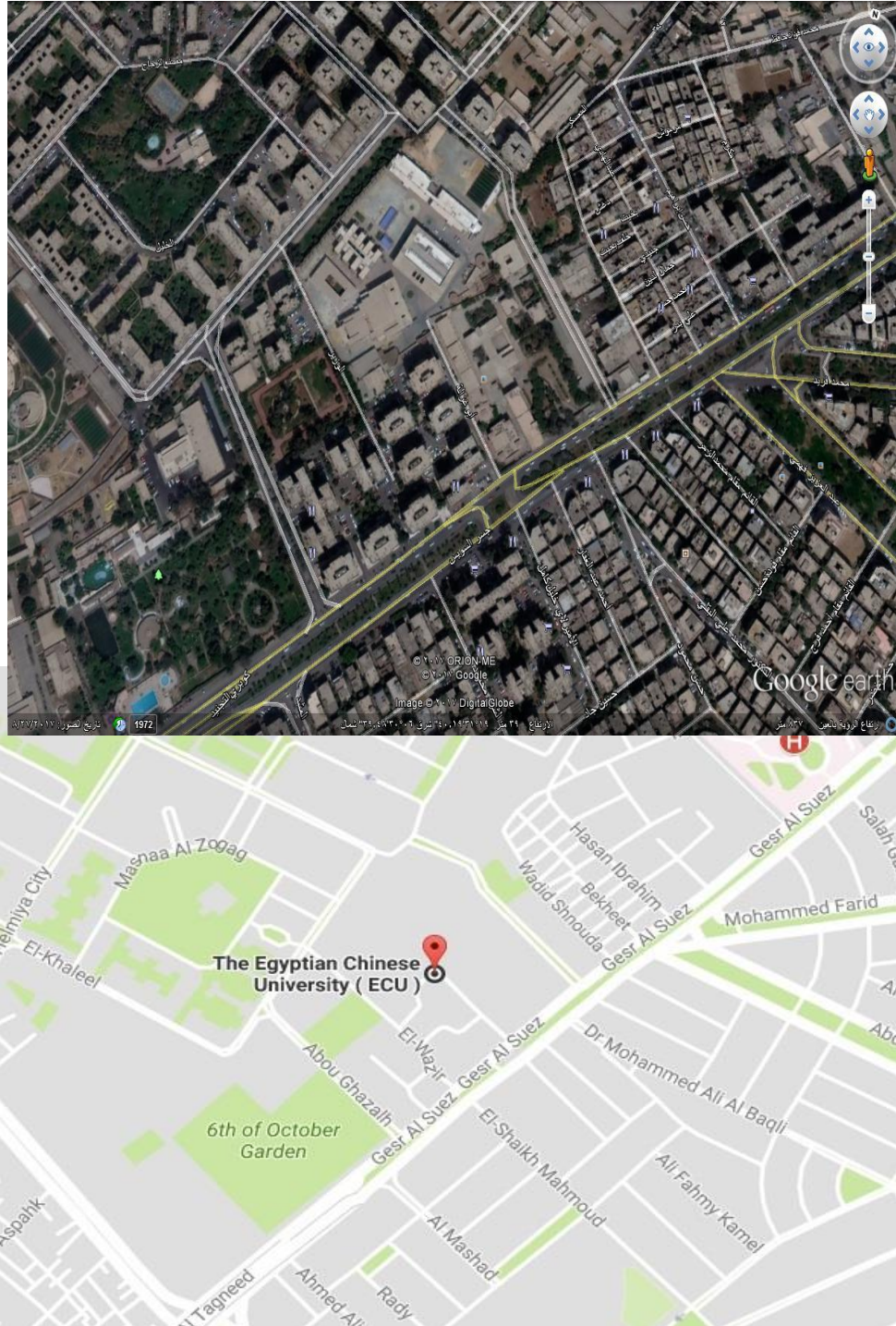
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The Egyptian Chinese University

Location

Address: Gesr ElSuez St. behind Tagneed Bridge,
Cairo, Egypt



mail: info@ecu.edu

website: www.ecu.edu

tel:

+20 26351964

+20 26351974

+20 26352648

About Faculty of Engineering and Technology

Vision

The Faculty of Engineering and Technology at the Egyptian Chinese University is a faculty that supports opportunities for creativity and excellence in the educational process and scientific research in engineering fields and an active participation in the development of society.

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 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. (Under construction)
- 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.

Dean of the faculty



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.

ECU PARTNERSHIPS



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Beijing Jiaotong University
www.njtu.edu.cn



华北电力大学
North China Electric Power
University
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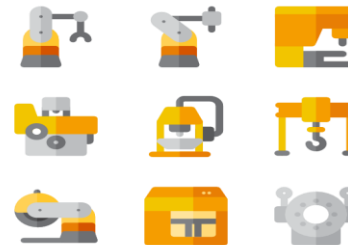
华辽宁工业大学
Liaoning University of
Technology
WWW.ENWEB.LNU.EDU.CN

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:**



Construction and Building



Mechatronics



Energy and Renewable Energy



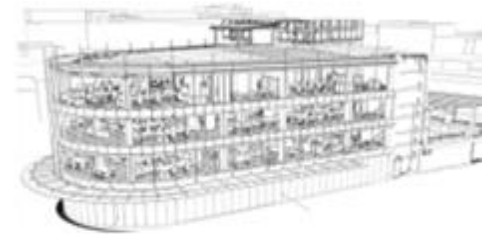
Software Engineering and Information Technology

Academic Programs (Brief Description)

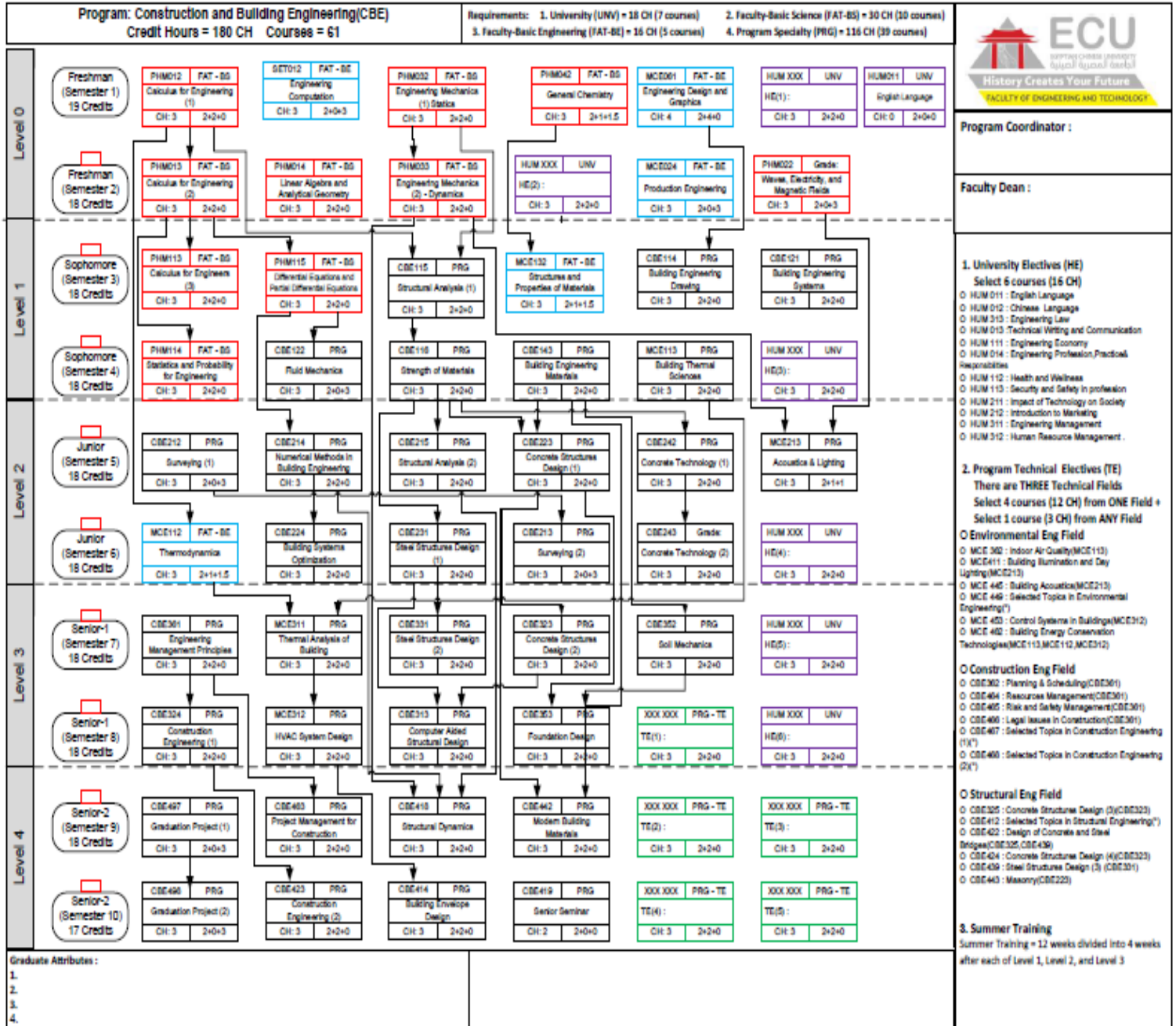
Construction and Building Engineering (CBE)

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.

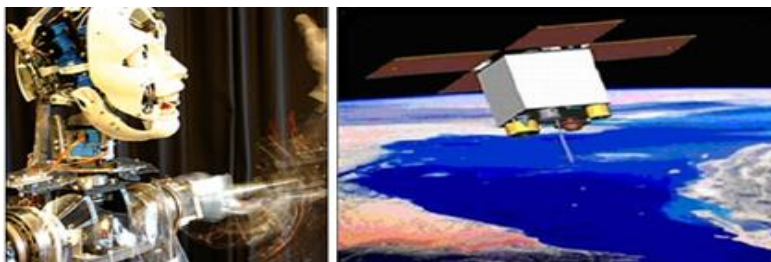


Road map of Construction and Building Engineering Engineering

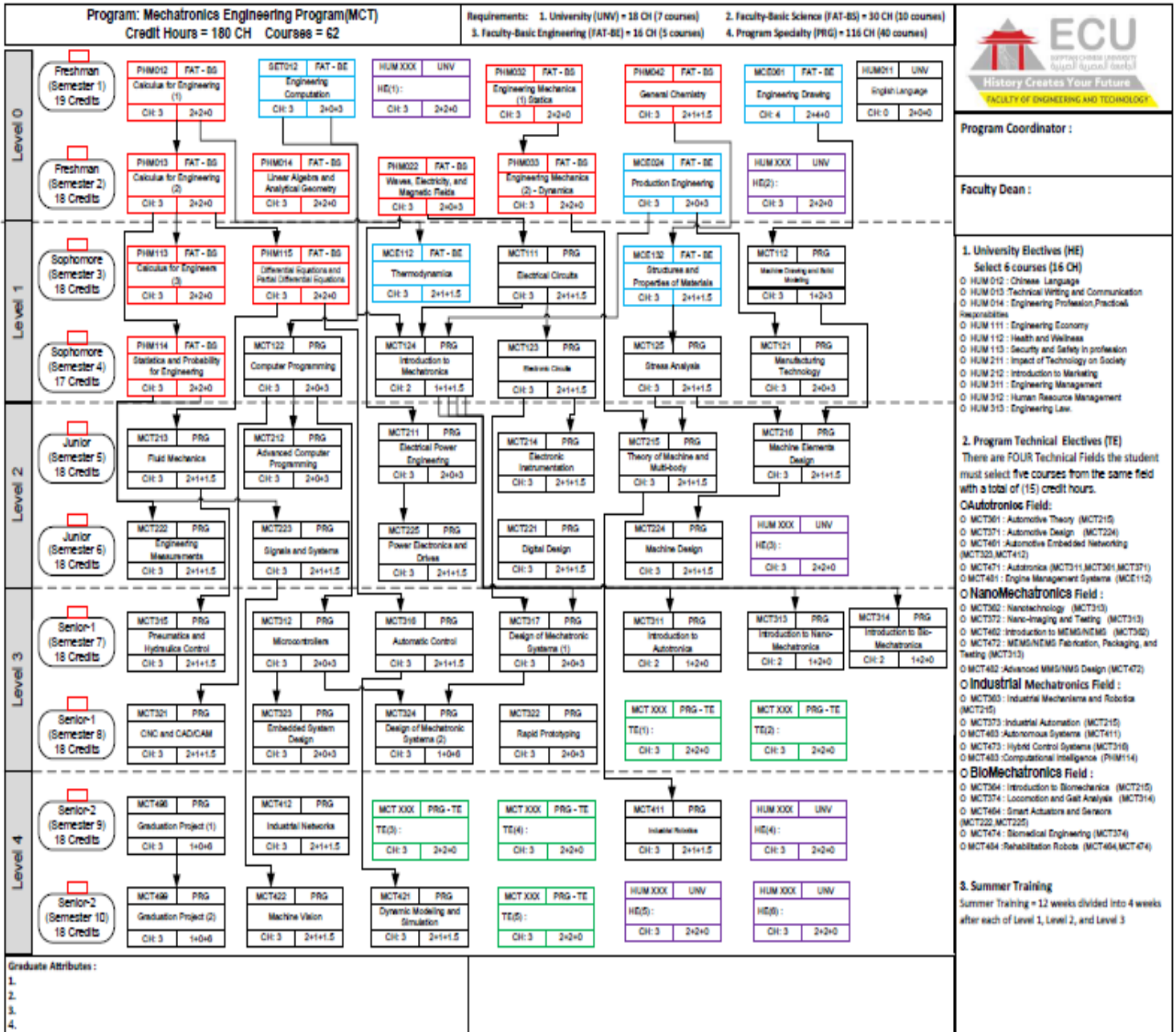


Mechatronics Engineering Program (MCT)

The MCT program aims to graduate mechatronics engineers that are capable of penetrating the Egyptian, regional, and international markets with their knowledge, skills, professionalism, and ethics. 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.



Road map of Mechatronics Engineering




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.



Road map of Energy and Renewable Energy

Program: Energy and Renewable Energy Engineering(ERG) Credit Hours = 180 CH Courses = 61		Requirements: 1. University (UNV) = 18 CH (7 courses) 2. Faculty-Basic Science (FAT-BS) = 30 CH (10 courses) 3. Faculty-Basic Engineering (FAT-BE) = 16 CH (5 courses) 4. Program Specialty (PRG) = 116 CH (39 courses)		 Program Coordinator : Faculty Dean :				
Level 0	Freshman (Semester 1) 19 Credits	PHM012 FAT - BS Calculus for Engineering (1) CH: 3 2+2+0	MCE001 FAT - BE Engineering Drawing CH: 4 2+4+0	PHM032 FAT - BS Engineering Mechanics (1) Statics CH: 3 2+2+0	SET012 FAT - BE Engineering Computation CH: 3 2+0+3	PHM042 FAT - BS General Chemistry CH: 3 2+1+5	HUM XXX UNV HE(1): CH: 3 2+2+0	HUM011 UNV English Language CH: 0 2+0+0
	Freshman (Semester 2) 18 Credits	PHM013 FAT - BS Calculus for Engineering (2) CH: 3 2+2+0	PHM014 FAT - BS Linear Algebra and Analytical Geometry CH: 3 2+2+0	PHM033 FAT - BS Engineering Mechanics (2) - Dynamics CH: 3 2+2+0	PHM022 FAT - BS Waves, Electricity, and Magnetic Fields CH: 3 2+0+3	MCE004 FAT - BE Production Engineering CH: 3 2+0+3	HUM XXX UNV HE(2): CH: 3 2+2+0	
Level 1	Sophomore (Semester 3) 18 Credits	PHM113 FAT - BS Calculus for Engineers (3) CH: 3 2+2+0	PHM115 FAT - BS Differential Equations and Partial Differential Equations CH: 3 2+2+0	ERG110 PRG Electromagnetic Fields CH: 3 2+2+0	ERG115 PRG Electrical Circuits CH: 3 2+1+5	MCE120 FAT - BE Structures and Properties of Materials CH: 3 2+1+5	ERG122 PRG Energy Resources and Renewable Energy Resources CH: 3 2+2+0	
	Sophomore (Semester 4) 17 Credits	PHM114 FAT - BS Statistics and Probability for Engineering CH: 3 2+2+0	MCE112 FAT - BE Thermodynamics CH: 3 2+1+5	ERG123 PRG Energy Conversion CH: 3 2+2+0	ERG172 PRG Renewable Resources and Energy Harvesting CH: 3 2+1+2	MCE122 PRG Production Engineering & Manufacturing (1) CH: 2 1+0+3	HUM XXX UNV HE(3): CH: 3 2+2+0	
Level 2	Junior (Semester 5) 18 Credits	ERG243 PRG Fluid Mechanics CH: 3 2+1+1	ERG223 PRG Heat Transfer CH: 3 2+1+1	ERG231 PRG Electrical Machines (1) CH: 3 2+1+5	ERG240 PRG Electronic Engineering CH: 3 2+2+0	MCE254 PRG Theory of Machines CH: 3 2+2+0	HUM XXX UNV HE(4): CH: 3 2+2+0	
	Junior (Semester 6) 18 Credits	MCE200 PRG Machine Construction CH: 3 2+2+0	ERG281 PRG Automatic Control Systems CH: 3 2+2+0	ERG232 PRG Electrical Machines (2) CH: 3 2+1+5	ERG233 PRG Electrical Power Engineering CH: 3 2+2+0	ERG284 PRG Measurements Lab CH: 3 2+0+3	HUM XXX UNV HE(5): CH: 3 2+2+0	
Level 3	Senior-1 (Semester 7) 18 Credits	ERG302 PRG Solar Energy (1) CH: 3 2+2+0	ERG303 PRG Combustion and Furnaces CH: 3 2+1+2	ERG336 PRG Microprocessor Based Automated Systems CH: 3 2+1+5	ERG324 PRG Fundamentals of Photovoltaic CH: 3 2+2+0	ERG353 PRG Power Electronics (1) CH: 3 2+1+5	MCE364 PRG Machine Design CH: 3 2+2+0	
	Senior-1 (Semester 8) 18 Credits	ERG372 PRG Industrial or Field Training CH: 3 2+0+3	ERG364 PRG Internal Combustion Engines CH: 3 2+1+2	ERG365 PRG Thermal Power Plants CH: 3 2+1+5	ERG337 PRG Power Quality CH: 3 2+2+0	ERG354 PRG Power Electronics (2) CH: 3 2+1+2	MCE366 PRG Vibrations and Dynamics CH: 3 2+2+0	
Level 4	Senior-2 (Semester 9) 18 Credits	ERG487 PRG Graduation Project (1) CH: 3 2+0+3	ERG452 PRG Solar Energy (2) CH: 3 2+2+0	ERG434 PRG Renewable of Generation Transmission and Operation CH: 3 2+2+0	ERG425 PRG Storage Energy Technologies CH: 3 2+2+0	ERG XXX PRG - TE TE(1): CH: 3 2+2+0	ERG XXX PRG - TE TE(2): CH: 3 2+2+0	
	Senior-2 (Semester 10) 18 Credits	ERG496 PRG Graduation Project (2) CH: 3 2+0+3	HUM XXX UNV HE(6): CH: 3 2+2+0	ERG XXX PRG - TE TE(3): CH: 3 2+2+0	ERG XXX PRG - TE TE(4): CH: 3 2+2+0	ERG433 PRG Network Interfacing of Renewable Resources CH: 3 2+2+0	ERG453 PRG Wind Energy CH: 3 2+2+0	
Graduate Attributes : 1. 2. 3. 4.								

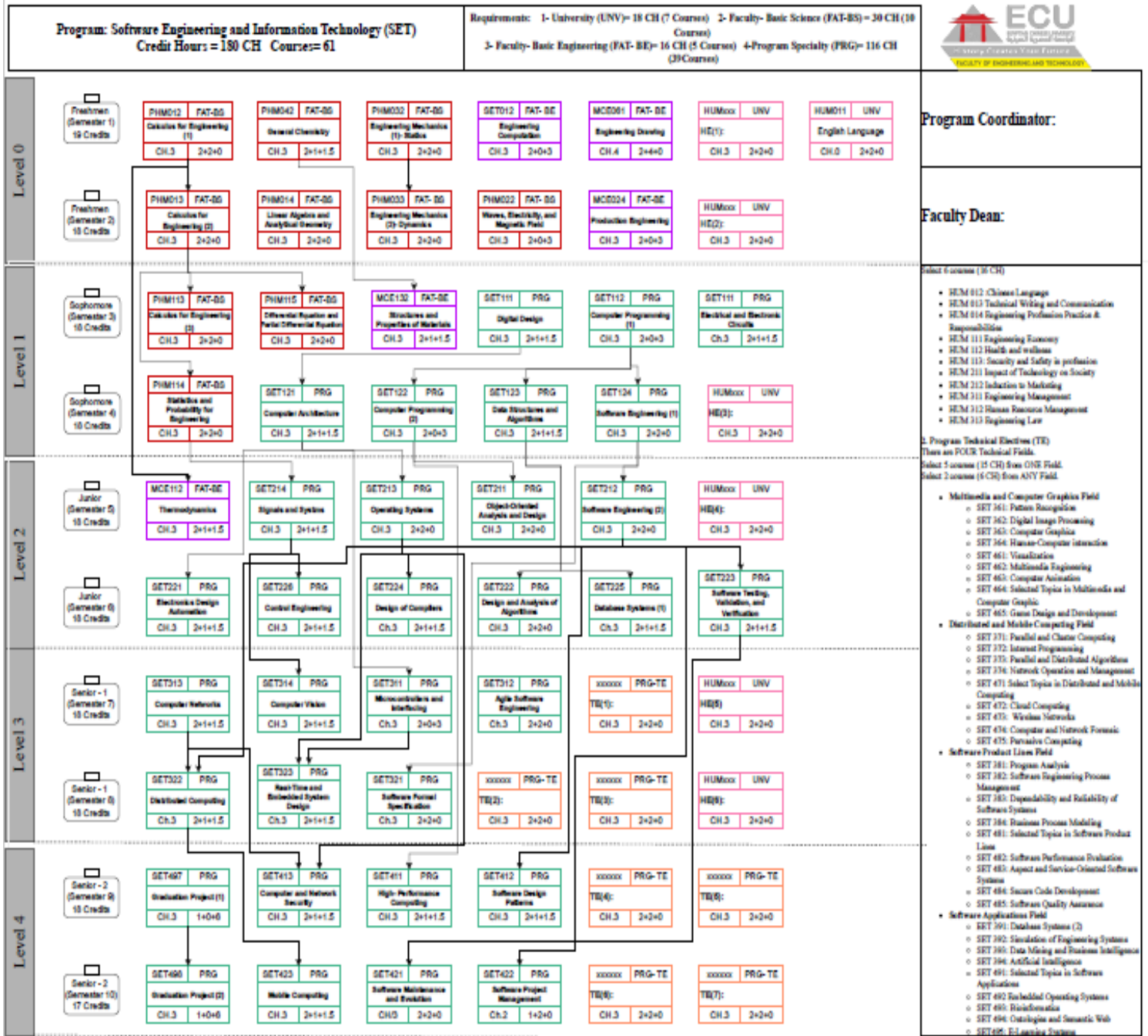
- 1. University Electives (HE)**
Select 6 courses (16 CH)
 O HUM 012 : Chinese Language
 O HUM 013 : Technical Writing and Communication
 O HUM 014 : Engineering Profession/Practices/Responsibilities
 O HUM 111 : Engineering Economy
 O HUM 112 : Health and Wellness
 O HUM 113 : Security and Safety in Profession
 O HUM 211 : Impact of Technology on Society
 O HUM 212 : Introduction to Marketing
 O HUM 311 : Engineering Management
 O HUM 312 : Human Resource Management
 O HUM 313 : Engineering Law
- 2. Program Technical Electives (TE)**
There are Two Technical Fields
Select 3 courses (9 CH) from ONE Field +
Select 3 course (3 CH) from the other Field
- O Mechanical Engineering Field:**
 O ERG422 : Phase Equilibrium and Mass Transfer (ERG365)
 O ERG432 : Turbo Machinery (ERG243)
 O ERG443 : Water Desalination (ERG263, ERG452)
 O ERG446 : Quality Control, Quality Assurance and Safety (PHM14)
 O ERG472 : Refrigeration and Air Conditioning (ERG223)
 O ERG491 : Individual Studies in Mechanical Engineering (*)
- O Electrical Engineering Field :**
 O ERG426 : Transients in Electrical Machines (ERG232)
 O ERG435 : Advanced System Integrity (ERG354)
 O ERG454 : Electric Drive (ERG232, ERG281, ERG354)
 O ERG455 : Advanced Control on Power Systems (ERG232, ERG233, ERG281)
 O ERG456 : Computer Application in Electrical Power Systems (ERG233)
 O ERG462 : Individual Studies in Electrical Power and Machines (*)
- 3. Summer Training**
Summer Training = 12 weeks divided into 4 weeks after each of Level 1, Level 2, and Level 3

Software Engineering and Information Technology (SET)

The SET Program is one of the most promising fields in engineering and is considered an important aspect in the ever-growing information technology sector. Therefore, the main objective of this program is to graduate highly qualified engineers in the field of computer engineering and software industry. This program focuses on modern methodologies in the software industry that represents, which is unquestionably an important sector of the national economy. The skills of engineers graduating from this program will make them great leaders for future engineering projects in this field. These skills will be mainly in; computer engineering, software engineering, distributed and mobile computing, embedded systems, computer security, multimedia systems and much more. Therefore, this program will meet the increasing demand for this specialization to meet the market needs at the national, regional, and international levels.



Road map of Software Engineering and Information Technology



Petroleum and Gas Engineering (PGE)

On hold



Smart Architecture and Urban Planning
Engineering (SAUP)

Under Construction



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.



Academic Regulations

Registration of Academic Courses

- In consultation with the academic advisor, the student is allowed to register 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 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 with the exception of 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 to review 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.
- The 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.

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.

Grades of the Credit Hours based Courses



	Percentage	Points
A+	97-100%	4.0
A	93-96.9%	4.0
A-	89-92.9%	3.7
B+	84-88.9%	3.3
B	80-83.9%	3.0
B-	76-79.9%	2.7
C+	73-75.9%	2.3
C	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 school certificate 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 to maintain a cumulative GPA of 3.6 or higher in every semester.

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 including 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 F grade in the course.



Student Disciplinary Actions

Student actions requiring discipline

- Any actions that disturb the faculty or suspend study.
- Any disturbance to the order or atmosphere of exams.
- Any cases of cheating in an exam or attempting it.
- Any damage or cause of loss to faculty devices, materials or textbooks.
- Any issuance of newspapers without permission from the Vice President for Education and Student Affairs.

Student Disciplinary Actions

- Warning.
- Denial of presence in the lessons of a course.
- Cancellation of the student's exam in one course or more.
- Dismissal from the faculty for a month.
- 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.

Contact Us



info@ecu.edu.eg

www.ecu.edu.eg

www.facebook.com/ecu.edu.eg

+20 26351964

+20 26351974

+20 26352648

