

Al-Mustaqbal University

جامعة المستقبل



*First Cycle – Bachelor's degree (B.Sc.) – ELECTRICAL
ENGINEERING TECHNIQUES*

بكالوريوس هندسة التقنيات الكهربائية



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1.Mission & Vision Statement

Vision:

The department aims to develop highly skilled and specialized engineering graduates with a vast knowledge in the field of electrical power engineering to fulfill the ever increasing demand for this vital resource. To meet the industrial local, regional, and national needs the department keeps a close tie with the market needs and reflects that in the development of its graduates.

Message:

Developing highly skilled power engineers that are capable of competing on the global arena.

Enriching and nurturing cooperation with the private sector.

Establishing new tracks with the department to meet the latest trends in the market.

Installing the design, deploy, and evaluate methodology in each student from the first day till graduation.

Nurturing scientific research via empowering department graduates to pursue higher studies and tackle cutting edge problems with real applicable solutions.

Sculpting the concepts of being community focused and driven into the minds of the under-graduates where their graduation projects seek to shrink the gap between the industrial needs and the theoretical aspects.

2. Program Specification

Programme code:	degree (B.Sc.) – ELECTRICAL ENGINEERING TECHNIQUES	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

3. Program (Objectives) Goals

Develop engineering staff that are capable of critical thinking, highly skilled, and with a specialized skill-set in the field of electrical power engineering.

Facilitate the learning process, by eliminating all such bottlenecks.

The continual integration of cutting-edge teaching and learning methods.

Emphasizing and focusing on simulation methods as a means to explore current problems and advance the scientific literature.

Expanding the department's outreach via organizing symposiums that promote discussion and information sharing.

Applying engineering standards that comply with the international guidance and regulation standards.

Nurturing the department's staff and develop their skill-set on a continual basis in addition to providing a supportive environment.

Focusing on and enlarging the public-private partnerships and engagements via involving the department with the local industry's R&D.

Marketing the department's research findings to the local and international venues proving the college as a center for research and innovation.

4. Program Student learning outcomes

5.Academic Staff

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6.Credits, Grading and GPA

Credits

Al-Mustaqbal University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

GRADING SCHEME مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A – Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E – Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب - قيد المعالجة	(45-49)	More work reis quired but credit awarded
	F – Fail	راسب	(0-44)	CoA considerablemount of work required
Note:				
Number Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program's total ECTS.

CGPA of a 4-year B.Sc. degree:

$$CGPA = [(1^{st} \text{ module score} \times ECTS) + (2^{nd} \text{ module score} \times ECTS) +] / 240$$

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

الرمز	المادة	الوحدات	النوع	SSWL(hr/sem) المجموع	USSWL(hr/sem) المجموع
UOMU025011	دوائر التيار المستمر	6	core	75	72
UOMU025012	التقنيات الرقمية	6	core	75	72
UOMU025013	الرياضيات التفاضلية	6	basic	73	74
UOMU025015	الورشة الهندسية	5	basic	60	62
UOMU025014	الرسم الهندسي	5	basic	60	62
UOMU000006	اللغة الإنكليزية	2	support	30	17

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

الرمز	المادة	الوحدات	النوع	SSWL(hr/sem) المجموع	USSWL(hr/sem) المجموع
UOMU025022	الميكانيك الهندسي	8	core	100	97
UOMU025021	دوائر التيار المتناوب	8	core	116	81
UOMU025023	الرياضيات التكميلية	7	basic	96	76
UOMU000003	اساسيات الحاسوب	3	basic	56	16
UOMU000001	اللغة العربية	2	basic	28	19
UOMU000004	حرية وديمقراطية وحقوق انسان	2	support	28	19

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

الرمز	المادة	الوحدات	النوع	SSWL(hr/sem) المجموع	USSWL(hr/sem) المجموع
UOMU025031	مولدات التيار المستمر	6	core	63	84
UOMU025032	اساسيات الالكترونيات	6	core	78	69
UOMU025033	الرياضيات التطبيقية	6	basic	78	69
UOMU025034	تحليل الدوائر الكهربائية	5	core	78	44
UOMU025035	المتحسسات	5	core	48	74
UOMU0000010	جرائم نظام البعث في العراق	2	support	30	18

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

الرمز	المادة	الوحدات	النوع	SSWL(hr/sem) المجموع	USSWL(hr/sem) المجموع
UOMU025041	محركات التيار المستمر	6	core	75	72
UOMU025042	الدوائر الالكترونية	6	core	75	72
UOMU025043	تحليل الدوائر الكهربائية متقدم	6	core	75	72
UOMU025044	الأجهزة والقياسات	5	core	60	62
UOMU0000017	تطبيقات الحاسوب 1	3	support	60	12
UOMU0000015	اللغة الإنكليزية 2	2	support	45	2
UOMU0000013	اللغة العربية 2	2	support	45	2

8.Contact

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