University of Mosul

First Cycle – Bachelor's degree (B.Sc.)

Climate Change Department

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Mission & Vision Statement

Vision Statement

At the local, regional, and global levels, there is leadership in resource management, preserving climate and environmental quality, managing its resources, and combating desertification.

Mission Statement

By adopting the results of research and studies in the fields of ecosystems, pollution control, environmental balance, and natural resources in the desert, we can effectively contribute to the development of desert environment communities and their advancement in a manner consistent with achieving sustainability goals. We also aim to reduce emissions, provide laboratory services that meet international quality standards, and contribute to community service while enhancing its capabilities.

Program Specification

Programme code:	BSc- Climite Chage	**ECTS**	240
Duration:	4 levels, 8 Semesters	**Method of Attendance:**	Full Time

Program (Objectives) Goals

1- Spreading awareness and culture related to combating climate change and global warming, developing the desert environment, and exploring natural resources in the Iraqi deserts.

2- Preparing graduates with extensive knowledge and distinguished experience in the field of environmental conservation and reducing emissions and pollutants that lead to global warming and the decline of vegetation cover.

3- Contributing significantly to the field of environmental conservation and ecological balance, restoring it to its natural state through the use of clean energy and increasing green spaces.

4- Providing support to community institutions in terms of consultations and services by recruiting graduates from the Climate Change Department.

5- Spreading environmental awareness of desert ecosystems and the risks of desertification, drought, and climate disasters.

Program Student learning outcomes

The degree programs provide the ability to monitor, predict, and evaluate environmental conditions in terms of their impact on climate change, including changes in environmental systems and the surrounding environment. Graduates of the Climate Change Department will be able to assess pollution situations and develop successful solutions to reduce pollution and its resulting effects on climate change, particularly by preserving vegetation cover and controlling the increase in carbon dioxide emissions, which contribute to global warming and a gradual rise in temperatures. Graduates will be able to conduct independent research on all existing and active activities, assess their environmental impacts on climate change, and mitigate these effects using the best scientific methods.

Academic Staff

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Credits, Grading and GPA

Credits

The University of Mosul follows the Bologna system for calculating credit hours. The total number of credit hours in the undergraduate program is 240, with an average of 30 credit hours per semester. One credit hour equals 25 hours of the student's workload, including scheduled and unscheduled hours..

Grading

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

GRADING SCHEME				
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 required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount 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 total ECTS.

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

   CGPA = [(1st ^{m}odule score x ECTS) + (2nd ^{m}odule score x ECTS) + ……] / 240

Modules

Curriculum of Climate Change Department
Bachelor Degree
First Level
First Semester

ECTS	Hours	Total	Type	Course Name	No.
5	47	78	B	Mathematics	1
4	37	63	B	Introduction to Climate Change	2
6	72	78	B	General Biology	3

ECTS	Hours	Total	Type	Course Name	No.
5	62	63	B	Introduction to Ecology	4
6	72	78	B	Earth Science	5
2	17	33	B	English Language I	6
2	17	33	B	Democracy and Human Rights	7

Second Semester

ECTS	Hours	Total	Type	Course Name	No.
7	-	-	-	General Physics	1
7	-	-	-	General Chemistry	2
5	-	-	-	Cartography	3
6	-	-	-	Climate and Biodiversity	4
3	-	-	-	Computer Science I	5
2	-	-	-	Arabic Language I	6

Second Level
First Semester

ECTS	Hours	Total	Type	Course Name	No.
6	-	-	-	Weather and Climate	1
7	-	-	-	Environmental Chemistry	2
4	-	-	-	Natural Resource Management	3
4	-	-	-	Sustainable Agriculture	4
5	-	-	-	Geographic Information Systems	5
2	-	-	-	English Language II	6
2	-	-	-	Research Ethics	7

Second Semester

ECTS	Hours	Total	Type	Course Name	No.
6	-	-	-	Environmental Geology	1
6	-	-	-	Hydrology	2
4	-	-	-	Agriculture and Climate Change	3
4	-	-	-	Atmospheric Science	4
5	-	-	-	Environmental Statistics	5
2	-	-	-	Arabic Language II	6
3	-	-	-	Computer Science II	7

Third Level

First Semester

ECTS	Hours	Total	Type	Course Name	No.
5	-	-	-	Air and Water Pollution	1
4	-	-	-	Fundamentals of Global Warming	2
4	-	-	-	Weather Monitoring Systems	3
4	-	-	-	Drought Monitoring and Assessment	4
4	-	-	-	Soil Physics	5
5	-	-	-	GIS Applications in Meteorology	6
4	-	-	-	Urban Planning	7

Second Semester

ECTS	Hours	Total	Type	Course Name	No.
6	-	-	-	Environmental Geochemistry	1
5	-	-	-	Soil Pollution	2
5	-	-	-	Water Management and Recycling	3
4	-	-	-	Food Security and Climate Change	4

ECTS	Hours	Total	Type	Course Name	No.
5	-	-	-	Weather Analysis and Forecasting	5
5	-	-	-	Natural Resource Economics	6

Fourth Level
First Semester

ECTS	Hours	Total	Type	Course Name	No.
5	-	-	-	Renewable Energy	1
6	-	-	-	Remote Sensing	2
5	-	-	-	Extreme Weather and Natural Disasters	3
5	-	-	-	Mitigation and Adaptation	4
5	-	-	-	Sustainable Development	5
4	-	-	-	Graduation Project	6

Second Semester

ECTS	Hours	Total	Type	Course Name	No.
5	-	-	-	Climate Change Mitigation Strategies	1
5	-	-	-	Environmental Impact Assessment	2
5	-	-	-	Environmental Laws and Regulations	3
6	-	-	-	Climate Change and Public Health	4
5	-	-	-	Meteorology	5
4	-	-	-	Graduation Project	6

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