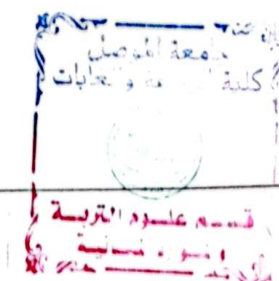


Course Description

1. Course Title:	
Desertification	
2. Course Code	
DESE455	
3. Semester / Year:	
Second Semester –2024-2025	
4. Description Preparation Date:	
1/2/2025	
5. Available Attendance Forms:	
In presence	
6. Number of Credit Hours /	Number of Units /
2 Theoretical	2 units
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Taha A.T.D. AlJawwadi	Email: tars71@uomosul.edu.iq
8. Course Objectives	
<p>1 - Identify desertification and what is its difference from the desert, through some definitions and scientific terms that explain this.</p> <p>2 - Introducing the student to the meaning of desertification indicators, what they mean and their difference from other expressions.</p> <p>3- Explaining the causes of desertification in some detail and teaching the student that mismanagement, in addition to climatic factors, are among the most important causes.</p> <p>4- Introducing the student to the criteria for desertification and its degrees according to international standards</p> <p>5- Introducing sand dunes as one of the most important manifestations of desertification.</p> <p>6- Directing the student to methods of combating desertification in some countries according to the financial capabilities of each country.</p>	
9. Teaching and Learning Strategies	
<ul style="list-style-type: none"> - Interactive Lecture - Brainstorming - Dialogue and discussion - Practical exercises - Assigning tasks and writing a report - Self-learning 	



1. Course Structure					
The week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 Theoretical	A1: Teach students about the definitions of desertification, its difference from degradation, and what each word means	Concepts and definitions of desertification, land degradation and desert.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Homework Assignment of duty discussions
2	2 Theoretical	A2: Introducing the student that desertification is a global problem and guiding him to the most important areas affected by it	Desertification is a global problem in arid and semi-arid regions.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions
3	2 Theoretical	A3: Introducing the student to the causes of desertification and degradation .	Causes of desertification and land degradation.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions Homework
4	2 Theoretical	B1: The student learns about the processes that cause desertification and degradation	Desertification and land degradation processes.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Homework Assignment of duty discussions short test (1)
5	2 Theoretical	B2: Introducing students to the degrees of desertification and the difference between each degree and another	Degrees and manifestations of desertification	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Homework Assignment of duty discussions Short test (2) Homework
6	2 Theoretical	A4: The student gets to know the approved standards By international organizations in assessing desertification	Standards approved by the FAO in assessing desertification	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Homework Assignment of duty discussions Short test (3)
7	2 Theoretical	A5: Creating a knowledge overview of land degradation and the impact of overgrazing and premature grazing	Degradation of pasture lands, overgrazing and early grazing	Auditory methods Writing style on the blackboard Slideshow style	Short exams Assignment of duty discussions



				Interactive dialogue style.	Semester test (1)
8	2 Theoretical	A5: Identifying sand dunes and distinguishing them from dust storms	Sand dunes and storms	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions Report 1
9	2 Theoretical	A7: Introducing the student to the types of sand dunes and how they are created	Types of sand dunes, their formation, and their division according to the speed of movement.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Homework Assignment of duty discussions
10	2 Theoretical	A8: The student learns the methods and methods of combating desertification	Ways and methods to combat desertification and reduce its risks	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions
11	2 Theoretical	A9: Forming the idea of mechanical methods in combating desertification.	Mechanical methods in combating desertification	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions Semester test (2)
12	2 Theoretical	A10: The student learns about chemical methods in combating desertification.	Chemical methods in combating desertification.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty Discussions Write a simplified report with quick testing
13	2 Theoretical	A11 The student learns about the biological methods in combating desertification and what are the benefits of afforestation.	Biomethods and afforestation Windbreaks in combating desertification	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions
14	2 Theoretical	A12: The student learns about the distribution of degrees of desertification and degradation in Iraq and places representative of these degrees	Distribution of degrees processes of desertification and land degradation in Iraq.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Short exams Assignment of duty discussions



15	2 Theoretical	A13: The student learns about modern techniques in monitoring desertification, the most important of which is remote sensing.	Using remote sensing techniques to monitor and monitor the phenomenon of desertification.	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	test Assignment of duty discussions
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1. Course Evaluation

t	Evaluation methods	Calendar date (week)	Grade	% Relative Weight
1	Report 1	The eighth week	5	5
2	Homework	the third week	1	1
3	Short test (1) Quiz	fourth week	1	1
4	Short test (2) Quiz	The fifth week	1	1
5	Short test (3) Quiz	the sixth week	1	1
6	Semester test (1)	The seventh week	7.5	7.5
7	Semester test (2)	The eleventh week is difficult	7.5	7.5
8	Final theoretical test	Final semester exams	60	60
9	Homework	The fifth week	1	1
10	Homework	the sixth week	1	1
11	Homework	The first week	1	1
12	Homework	fourth week	1	1
13	test	The fourteenth week	10	10
14	Homework	The ninth week	1	1
15	test	Final semester exams	1	1
	Total	100	% 100	%100

2. Learning and Teaching Resources

Desertification, Majid Khudair Abbas / Abdul Amir Thajil Saleh - University of Baghdad 2012	Required textbooks (methodology, if any)
	Main references (sources)
Academic scientific journals, reports of international environmental and weather organizations	Recommended books and references (scientific journals, reports...)
FAO	Electronic References, Websites

Theoretical subject lecturer:

Dr. Taha A.T.D. AlJawwadi

Chairman of the Scientific Committee:

Dr. Abdul Qader Abash sbak

Head of the Department of Soil Science and Water Resources:

Dr. Khaled Anwar Khaled