

Course Description

1. Course Title:

Desertification

2. Course Code

DESE455

3. Semester / Year:

Second Semester –2023-2024

4. Description Preparation Date:

1/2/2024

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)

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8. Course Objectives

- 1 - Identify desertification and what is its difference from the desert, through some definitions and scientific terms that explain this.
- 2 - Introducing the student to the meaning of desertification indicators, what they mean and their difference from other expressions.
- 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.
- 4- Introducing the student to the criteria for desertification and its degrees according to international standards
- 5- Introducing sand dunes as one of the most important manifestations of desertification.
- 6- Directing the student to methods of combating desertification in some countries according to the financial capabilities of each country.

9. Teaching and Learning Strategies

- Interactive Lecture
- Brainstorming
- Dialogue and discussion
- Practical exercises
- Assigning tasks and writing a report
- Self-learning

10. Course Structure

Evaluation method	Learning method	Unit or subject name	Required Learning Outcomes	Hours
Homework Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Concepts and definitions of desertification, land degradation and desert.	A1. Teach students about the definitions of desertification, its difference from degradation, and what each word means	2 Theoretical
Short exams Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Desertification is a global problem in arid and semi-arid regions.	A2: Introducing the student that desertification is a global problem and guiding him to the most important areas affected by it	2 Theoretical
Short exams Assignment of duty discussions Homework	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Causes of desertification and land degradation.	A3: Introducing the student to the causes of desertification and degradation .	2 Theoretical
Homework Assignment of duty discussions short test (1)	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Desertification and land degradation processes.	B1: The student learns about the processes that cause desertification and degradation	2 Theoretical
Homework Assignment of duty discussions Short test (2) Homework	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Degrees and manifestations of desertification	B2Introducing students to the degrees of desertification and the difference between each degree and another	2 Theoretical
Homework Assignment of duty discussions Short test (3)	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Standards approved by the FAO in assessing desertification	A4: The student gets to know the approved standards By international organizations in assessing desertification	2 Theoretical
Short exams Assignment of duty discussions Semester test (1)	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Degradation of pasture lands, overgrazing and early grazing	A5: Creating a knowledge overview of land degradation and the impact of overgrazing and premature grazing	2 Theoretical

Short exams Assignment of duty discussions Report 1	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Sand dunes and dust storms	A5: Identifying sand dunes and distinguishing them from dust storms	2 Theoretical	
Homework Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Types of sand dunes, their formation, and their division according to the speed of movement.	A7: Introducing the student to the types of sand dunes and how they are created	2 Theoretical	9
Short exams Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Ways and methods to combat desertification and reduce its risks	A8: The student learns the methods and methods of combating desertification	2 Theoretical	10
Short exams Assignment of duty discussions Semester test (2)	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Mechanical methods in combating desertification	A9: Forming the idea of mechanical methods in combating desertification.	2 Theoretical	11
Short exams Assignment of duty Discussions Write a simplified report with quick testing	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Chemical methods in combating desertification.	A10: The student learns about chemical methods in combating desertification.	2 Theoretical	12
Short exams Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Biomethods and afforestation Windbreaks in combating desertification	A11 The student learns about the biological methods in combating desertification and what are the benefits of afforestation.	2 Theoretical	13
Short exams Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Distribution of degrees and processes of desertification and land degradation in Iraq.	A12: The student learns about the distribution of degrees of desertification and degradation in Iraq and places representative of these degrees	2 Theoretical	14
Short exams Assignment of duty discussions	Auditory methods Writing style on the blackboard Slideshow style Interactive dialogue style.	Using remote sensing techniques to monitor and monitor the phenomenon of desertification.	A13: The student learns about modern techniques in monitoring desertification, the most important of which is remote sensing.	2 Theoretical	15

11. Course Evaluation

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

12. Learning and Teaching Resources

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


T.A.W.D.

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. Ammar Younis Kashmoula