Course Description Form

1. Course Name:
Forest planting

2. Course Code:
FOPL301

3. Semester / Year:
Second Semester / 2024-2025

4. Description Preparation Date:
1 / 2 / 2025

5. Available Attendance Forms:
Built-in

6. Number of Credit Hours (Total) / Number of Units (Total)
2 Theory + 3 practical / 3.5 units

7. Course administrator's name (mention all, if more than one name)
Name: Dr. Shaymaa Dhayaa Ali Email: shaymaa_dhayaa@uomosul.edu.iq

8. Course Objectives

Theory :	Practical :
The student should be able to determine the economic and environmental importance of forest and afforestation - It aims to ensure the sustainability and continuity of forests to benefit from them economically and environmentally - Familiarity with the most important, best and be methods of trees - Introducing the student to some of the problems of planting seedlings according to different locations And how to treat it - Methods of reforestation of cut and burned forests	The practical afforestation course aims to inform students and see the types of forest trees used in reforestation of arid areas and stabilization of sand dunes, how to make windbreaks, and the practical application of afforestation operations in open areas and reforestation of forest areas, and to train students on developmental and sustaining processes for the trees growing in nursery.

9. Teaching and Learning Strategies

Strategy	-Interactive lecture, Brainstorming, - Dialogue and discussion, - Assigning tasks and reporting - Assigning group work to reveal leadership skills

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2Theory 3 Pract.	Theory: a1: Learn about the principles and foundations of plantation practical :	Theory: Principles of afforestation And some scientific terms practical : Introducing forests and their importance	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue	Exams, Homework, Reports

		a6: Learn about the types forests and importance		style Practical : Assigning tasks and reports	
2	2Theory 3 Pract	Theory: a2: aware of the importance of afforestation in reducing urban pollution practical : a7: Learn about seed dispersal methods and seedling planting methods	Theory: The role of afforestation in reducing environmental pollution Practical: Methods of afforestation, including seed dispersal and seedling planting	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
3	2Theory 3 Pract	Theory: e1: Determines how afforestation works to alleviate poverty in developing countries practical: A8: Learn about the types of forest tree seeds and methods of treating them	Theory: The role of forests in alleviating poverty in developing countries Practical: Identifying the types of seeds and methods of treating them before sowing	Theory : -Auditory methods -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
4	2Theory 3 Pract	Theory: a3: Learn about the necessary procedures before planting trees practical : b2: Students document the types of forest trees and calculate the distances between trees	Theory: Tree planting methods: First, by scattering seeds Practical: examining the types of trees and determining the appropriate planting distances	Theory : Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
5	2Theory 3 Pract	Theory: a4: Learn about the treatments on seedlings before starting planting and the methods of planting practical : d1: Application in the nursery to the process of dispersing seeds in beds, bags, and pots	Theory: Methods of afforestation: Secondly, planting seedlings Practical: scattering seeds in beds, pots, and bags	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
6	2Theory 3 Pract	Theory: c1: Explains the types of bare-rooted seedlings and methods of planting practical : a9: Identify the types of forest trees suitable for	Theory: Methods of planting bare-rooted seedlings Practical: planting windbreaks and protective belts	Theory : -Auditory methods -Style of writing on The blackboard. -Direct dialogue style	Exams, Homework, Reports

		planting and planting in arid areas		Practical : Assigning tasks and reports	
7	2Theory 3 Pract	Theory: b1: Organizes a scientific visit to natural forests in northern Iraq practical : a10: Identify forest trees suitable for planting windbreaks and protective belts	Theory: A scientific visit to forest areas in Dohuk Governorate, Mata Arboretum and Zawita Forests practical : Applying some planting methods in natural forests	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
8	2Theory 3 Pract	Theory: a5: Learn about windbreaks, their types, importance, and conditions for their application practical : c6: A practical application on planting windbreaks and green belts	Theory: Windbreaks and green belts Practical: planting windbreaks and protective belts	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
9	2Theory 3 Pract	Theory: c2: Explains the methods used to stabilize coastal sand dunes practical : a11: Identify the types of forest trees suitable for planting slopes and rugged areas	Theory: Afforestation and stabilization of coastal sand dunes practical : Afforestation of slopes and rugged areas	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
10	2Theory 3 Pract	Theory: e2: Justifies the importance of stabilizing sand dunes in arid and semi-arid areas practical : a12: Afforestation of arid and semi-arid areas	Theory: Afforestation of arid and semi-arid areas practical : Afforestation of arid and semi-arid areas	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
11	2Theory 3 Pract	Theory: c3: He proposes a scientific visit to the Nineveh Forest practical : c7: He proposes a scientific visit to the Nineveh Forest	Theory: A scientific visit to the forests of Nineveh Practical: stabilizing sand dunes	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks	Exams, Homework, Reports

				and reports	
12	2Theory 3 Pract	Theory: C4: Explains the types of plots according to the purpose of creating them practical : A13: Learn about ways to stabilize sand dunes	Theory: Types of stands practical : Practical application: planting seedlings in the nursery	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
13	2Theory 3 Pract	Theory: e3: Justifies the importance of afforestation of slopes to reduce erosion practical : c8: Practical application of planting seedlings in the nursery	Theory: Afforestation of slopes (agricultural terraces) Practical: Practical application of planting seedlings on public roads	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
14	2Theory 3 Pract	Theory: e4: Determines the standards and foundations of afforestation within cities practical : c9: Practical application of planting seedlings on public roads	Theory: Afforestation of cities, roads, and central islands Practical: Practical application of planting seedlings on public roads	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
15	2Theory 3 Pract	Theory: c5: Shows the most important types of trees and shrubs that are suitable for afforestation in Iraq practical : c10: Practical application of planting seedlings on public roads	Theory: The most important trees and shrubs used in landscaping in Iraq, their specifications and importance practical : Practical application: planting seedlings on public roads	Theory : -Auditory methods, -Style of writing on The blackboard. -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports

11. Course Evaluation

Evaluation Methods	Evaluation Date	Degree	Relative weight %
Final report theory + pract. Report	Theory 15 weeks Pract. 1-15 week	7 Theory + 6 pract.	% 13
Short exam (1)	Week (3)	4 Theory + 2 pract.	% 6
Half exam (theory + pract.)	Week (9)	10 Theory + 5 pract.	% 15
Short exam (2)	Week (12)	4 Theory + 2 pract.	% 6

Final exam (practical)	Exam pract.	20	% 20
Final exam (theory)	Exam theory	40	% 40
		100	% 100

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	The Planting Design Handbook Propagating and planting trees
Recommended books and references (scientific journals, reports...)	Many articles and research published in publish houses such as Springer + Elsevier + SPRINGER NATURE)
Electronic References, Websites	Various sites on the Internet

Teacher of Theory : Dr. Shaymaa Dhayaa Ali

Teacher of Practical : Dr. Shaymaa Dhayaa Ali

Chairman of the Scientific Committee : Prof.Dr. Sumod Husain Ali

Head of the Dept. of Forestry Sciences: Prof.Dr. Sumod Husain Ali