

## Course Description Form

<b>1. Course Name:</b>					
Forest planning					
<b>2. Course Code:</b>					
FOLA497					
<b>3. Semester / Year:</b>					
forth Semester / 2023-2024					
<b>4. Description Preparation Date:</b>					
1 / 2 / 2024					
<b>5. Available Attendance Forms:</b>					
Attendance					
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>					
2 Theory + 3 practical / 3.5 units					
<b>7. Course administrator's name (mention all, if more than one name)</b>					
Name: Dr. Mohammad Asim Saeed					
<b>8. Course Objectives</b>					
<b>Theory :</b> The student should be able to determine the economic and environmental importance of forests 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 best 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			<b>Practical :</b> 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 the nursery.		
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		-Interactive lecture, Brainstorming, - Dialogue and discussion, - Assigning tasks and reporting - Assigning group work to reveal leadership skills			
<b>10. Course Structure</b>					
<b>Week</b>	<b>Hours</b>	<b>Required Learning Outcomes</b>	<b>Unit or subject name</b>	<b>Learning method</b>	<b>Evaluation method</b>
1	2Theory 3 Pract.	Theory: a1: Learn about the principles and foundations of plantati	Theory: Principles of afforestati And some scientific tex practical :	Theory : -Auditory methods, -Style of	Exams, Homework, Reports

		practical : a6: Learn about the types of forests and importance	Introducing forests and their importance	writing on The blackboard -Direct dialogue 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 the	Theory: The role of forests in alleviating poverty in developing countries  Practical: Identifying the types of seeds and methods of treating the 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 tree and calculate the distances between tree	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 seedling before starting planting and the methods of planting practical : d1: Application in the nursery to the process 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	Theory: Methods of planting bare	Theory : -Auditory	Exams, Homework,

		bare-rooted seedlings ; methods of planting practical : a9: Identify the types of forest trees suitable for planting and planting in arid areas	rooted seedlings Practical: planting windbreaks and protective belts	methods, -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	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 type 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 and reports	Exams, Homework, Reports
12	2Theory 3 Pract	Theory: C4: Explains the types of plots according to the purpose of creating the plots 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	Theory: The most important trees and shrubs used in landscaping in Iraq, their specifications and importance practical : Practical application: planting seedlings on	Theory : -Auditory methods, -Style of writing on The blackboard -Direct dialogue style Practical :	Exams, Homework, Reports

		public roads	public roads	Assigning tasks and reports	
<b>11. Course Evaluation</b>					
	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
<b>12. Learning and Teaching Resources</b>					
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 publishing houses such as Springer + Elsevier + SPRINGER NATURE)		
Electronic References, Websites			Various sites on the Internet		

Teacher of Theory : Dr. Mohammad Asim Saeed

Teacher of Practical : Dr. Mohammad Asim Saeed

Chairman of the Scientific Committee : Dr. Mohammed Younes Al – Alaf

Head of the Dept. of Forestry Sciences: Dr. Mozahim Said Younes