

## Course Description Form

<b>1. Course Name:</b>					
Silvicultural system					
<b>2. Course Code:</b>					
SISY401					
<b>3. Semester / Year:</b>					
First Semester / 2023-2024					
<b>4. Description Preparation Date:</b>					
1 / 9 / 2023					
<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. Sumood Husain Ali Email: sumod_husain@uomosul.edu.iq					
<b>8. Course Objectives</b>					
<b>Theory :</b> - The student acquires the ability to know forest development systems - The student's familiarity with the most important international classifications of forests - Introducing the student to methods of caring for and sustaining forests in order to obtain productive forests - Introducing the student to ways to regenerate natural forests			<b>Practical :</b> The practical forest development systems course aims to introduce and show student the classification of forest trees within the forest according to the scientific classifications used, how to carry out thinning operations for trees within the forest, and the application of cutting and pruning operations for trees for the purpose of encouraging natural regeneration and training students the developmental processes of trees within the forest..		
<b>9. Teaching and Learning Strategies</b>					
<b>Strategy</b>		-Interactive lecture, - Brainstorming, - Dialogue and discussion, - Assigning tasks and reporting - Field project practical - 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 meaning of forest Silvicultural system practical :	Theory: Scientific terminology for forest development systems practical :	Theory : -Auditory methods, -Style of writing on	Exams, Homework, Reports

		a8: Learn how to classify forest trees	Learn how trees are classified	The blackboard -Direct dialogue style Practical : Assigning tasks and reports	
2	2Theory 3 Pract	Theory: a2 Familiarizes with some classifications of forest development systems practical : a9: Learn about the Kraft, Huck, and Shadlin decimal classification	Theory: Classification of trees within the forest practical : Learn about the Kraft, Huck, and Shadlin decimal classification	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: a3: Determines global classifications of forest practical: a10: Learn about the classification of Ken, Philip, and Othman in the forest	Theory: World forest classifications practical : Learn about the classification of Ken, Philip and Othman within the forest	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: a4: Understands methods of caring for and sustaining forests practical : c5: Apply clean cutting and editorial cutting	Theory: Forest care and sustainability practical : How to apply clean and editorial cuts	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: b1: Organizes a scientific visit to the natural forest in the Zawita area in Dohuk Governorate practical : a11: Recognizes the types of improvement, salvage and mitigation cuts	Theory: A scientific visit to the natural forests in the Zawita area in Dohuk Governorate practical : Improvement, salvage and mitigation cutting	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: a5: Compares the different methods	Theory: Forest care and maintenance operation	Theory : -Auditory methods,	Exams, Homework, Reports

		developed by scientists apply photomitigation practical : c6: Applying the thinning process within the forest	practical : How to perform thinning	-Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	
7	2Theory 3 Pract	Theory: a6: Learn about natural regeneration, its conditions, and its importance practical : a12: Learn how to perform elective and mechanical mitigation	Theory: natural regeneration  practical : How to perform elective and mechanical thinning	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: a7: Natural regeneration is understood by the tree cutting method practical : c7: Applying the pruning process to forest trees	Theory: Natural regeneration in high forests practical : How to apply pruning	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: b2: The method of wasteful cutting is used renewal practical : c8: Applying the pruning process to forest trees	Theory: A method of natural regeneration practical : How to apply pruning	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: c1: Explains the method of preventive cutting in renewal practical : c9: Application of thinning in different forests	Theory: A method of natural regeneration practical : Application of thinning different forests	Theory : -Auditory methods, -Style of writing on The blackboard -Direct dialogue style Practical : Assigning tasks and reports	Exams, Homework, Reports
11	2Theory	Theory:	A method of natural	Theory :	Exams,

	3 Pract	c2: Explains the election cut-off method for renewal practical : c10: Applying cutting operations for the purpose of obtaining natural regeneration	regeneration  practical : Performing cutting operations for the purpose of obtaining natural renewal	-Auditory methods, -Style of writing on the blackboard -Direct dialogue style Practical : Assigning tasks and reports	Homework, Reports
12	2Theory 3 Pract	Theory: c3: He proposes a scientific visit to the Nineveh Forest practical : c12: He proposes a scientific visit to the Nineveh Forest	Theory: Scientific visit to the Nineveh forests practical : Conducting a scientific visit to the Nineveh Forest	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: c4: Explains methods of regeneration in lowland forests practical : a13: Understands the processes of raising lowland forests of conifers	Theory: Regeneration in lowland forests practical : Breeding low forests by coppice	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: e1: Identifies aggregate sowing usage locations and seed specifications practical : c12: Applies some developmental processes in the nursery	Theory: Use the air scattering method  practical : Conducting some development applications	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: e2: Justifies the reasons for planting seedlings and planting methods in natural forests practical : c13: Apply some developmental processes in the nursery	Theory: Regeneration by planting  practical : Conducting some development applications	Theory : -Auditory methods, -Style of writing on the blackboard -Direct dialogue style Practical : Assigning tasks	Exams, Homework, Reports

				and reports	
<b>11. Course Evaluation</b>					
	<b>Evaluation Methods</b>	<b>Evaluation Date</b>	<b>Degree</b>	<b>Relative weight %</b>	
	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)			Tha practice of Silviculture . 1962 David Martyn Smith Foundation of Silviculture.1962 Clarence F. Korstain		
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. Sumood Husain Ali

Teacher of Practical : Mr. Mohammed Samer Edres

Chairman of the Scientific Committee : Dr. mohammed younes al – alaf

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