

Description course/ Principles of Forestry

1. Course name:
Forest Principles
2. Course code:
PRFO139
3. Semester/Year:
First Semester/First Stage/ 2023-2024
4. The date this description was prepared :
1/09/2023
5. Available attendance form
In-Person
6. Number of study hours (total)/number of units (total)
2 hours theoretical/ 3 hours practical (5 hours)/3.5 units
7. Name of the course administrator (if more than one name is mentioned) :
Dr. Samer Amir Hanna / Theoretical MSc . Hanan Ghanem Saadallah/ Practical
8. Course objectives
<ul style="list-style-type: none">• The learner should be able to identify forest tree types and distinguish them from horticultural trees .• The learner must be familiar with the development service operations necessary to manage trees in a nursery, forest or forest .• The learner should be familiar with the weather and climate affecting the spread and distribution of forest trees• Production and multiplication of types of seedlings, which can cover the labor market and according to demand and need .• Distinguish between the types of trees suitable for afforestation in the Iraqi environment and the city of Mosul in particular .• The learner's awareness of the taxonomic ranks of the local tree families in the country.• Determine the appropriate type of trees that can be used to afforest the sides of roads and med islands
9. TEACHING AND LEARNING STRATEGIES

- Interactive lecture
- Brainstorming
- Dialogue and Discussion
- Field Training
- Presentations of models of the body of insects
- Assigning specific tasks and preparing reports on them
- Self-learning
- Practical Exercises

10. Course Structure

Week	Hours	Learning outcomes required for the program*	Unit or Topic Name	Learning method	Valuation Method
1	theoretical	A1 : Identify the most important terms in the field of specialization	Definitions and terminology about forests	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz1 Final Quiz
	3 Practical	A11: Recognize important terms in the Forest Principles	Preamble to the Forest Principles	Interactive lecture, brainstorming, dialogue and discussion, field training, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."
2	2 Theoretical	A2: Recognize the importance of forests economically, environmentally and touristily	Economic importance of forests	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	A14: Learn about the sciences related to the principles of forests and their offshoots	Science from Forestry	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	Direct application using available tools
3	2 Theoretical	A6: Compares pure and mixed forests	Forest Subdivisions	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	A12 : Mention the benefits of diverse forests	Benefits of Forests	Interactive lecture, brainstorming, dialogue and discussion, field training, self-learning	View Field
4	2 Theoretical	A4: Sets the list of forest distribution in the countries of the world	State of the World's Forests	Interactive lecture, brainstorming, dialogue and	Quarterly Quiz 1,

				discussion, self-learning	Final Quiz,
	3 Practical	A16 : Lists the benefits of tourist forests	Benefits of Forests	Interactive lecture, brainstorming, dialogue and discussion, training, practical exercises, self-learning	Practical Quiz 2, Live Drawing
5	2 Theoretical	A3: Identify forest divisions in terms of where they are spread	Natural Forests in Iraq	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	B3 : Plans how to establish a nursery	Al Mashatel	Interactive lecture, brainstorming, dialogue and field practical exercises, self-learning	Views from live models
6	2 Theoretical	A9: Determines the best type of forest based on certain constants	Pure and mixed forests	Interactive lecture, brainstorming, dialogue and self-learning	Quiz, Final Quiz
	3 Practical	A13: Compare types of nurseries	Al Mashatel	Interactive lecture, brainstorming, dialogue and field practical exercises, self-learning	Direct drawing and homework
7	2 Theoretical	A5: Identify the most important types of forest tree propagation	Methods of Reprod Trees	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 2, Final Quiz
	3 Practical	B7 : Design a nursery that contains fences and transportation methods	Nursery Planning	Interactive lecture, brainstorming, dialogue and field practical exercises, field project, self-learning	Figure Presentation
8	theoretical	B1: Connects the types of nurseries and the types suitable for cultivation in them and their environmental and economic importance	Forest nurseries, their types, their importance	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 2, Final Quiz
	3 Practical	A18 : Determines the best way to maintain and care for nurseries	Maintenance and care in	Interactive lecture, brainstorming,	Direct

	cal		forests	dialogue discussion, training, exercises, learning	and field practical self-	drawing and homework
9	2 Theoretical	A10 : Determines the best special transactions before planting seeds	Transactions for seeds before planting	Interactive brainstorming, dialogue discussion, learning	lecture, and self-	Quarterly Quiz 2, Final Quiz
	3 Practical	A17 :Identify mitigation, when it takes place and its forms	Maintenance and care in forests	Interactive brainstorming, dialogue discussion, training, exercises, learning	lecture, and field practical self-	Direct drawing and homework
10	2 Theoretical	C1: Suggests suitable types of afforestation in different places	Afforestation , its types and times	Interactive brainstorming, dialogue discussion, self-learning	lecture, and self-	Quarterly Quiz 2
	3 Practical	A15: Choose one of the low-mitigation types	Maintenance and care in forests	Interactive brainstorming, dialogue discussion, training, exercises, learning	lecture, and field practical self-	Live Drawing Homework
11	2 Theoretical	D1: Conclude the most important toxic gases and their harmful effects on forests by field examination	Effect of toxic gases on forests	Interactive brainstorming, dialogue discussion, learning	lecture, and self-	A final test
	3 Practical	B6: Differentiates between high and optional dilution	Maintenance and care in forests	Interactive brainstorming, dialogue discussion, training, exercises, learning	lecture, and field practical self-	- Homework
12	2 Theoretical	D2: Suggests the best solutions for the effects of wind and storms on trees	Effects of wind and storms on trees	Interactive brainstorming, dialogue discussion, learning	lecture, and self-	A final test
	3 Practical	B5: Applies the mitigation process	Maintenance and care	Interactive brainstorming, dialogue discussion, training, exercises, learning	lecture, and field practical self-	Direct drawing and homework

13	2 Theoretical	A8 : Gives examples of freezing and its harmful impact on forests	Freezing Effects	Interactive lecture, brainstorming, dialogue and discussion, self-learning	A final test
	3 Practical	B4 : Distinguish between sustainability operations in forests and their times	Maintenance and care	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	- Homework
14	2 Theoretical	A7:Distinguish between the most important biological factors affecting trees	bio factors	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz, Final Quiz
	3 Practical	E1: Participates in a field visit to identify the permanent, temporary and central nurseries and the maintenance operations that come with them	Field View - Field Visits	Interactive lecture, brainstorming, dialogue and discussion, field training, practical exercises, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."
15	2 Theoretical	B2: Uses the best methods and equipment to make some forest measurements	Measurements for some forest trees	Interactive lecture, brainstorming, dialogue and discussion, self-learning	Quiz, Final Quiz
	3 Practical	E2: Participates in a field visit to identify permanent, temporary and central nurseries and maintenance operations	Field View - Field Visits	Interactive lecture, brainstorming, dialogue and discussion, field training, practical field project, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."

11. Course Evaluation

This service allows customers to issue a permit	evaluation methods	Calendar Appointment (Week)	Degree	Relative Weight%
1	Report I	Week 4	2.5	2.5

2	Weather Report - %1 - %2	Week 5	2.5	2.5
3	Quiz (1)	Week 6	2	2
4	Quiz 2 (Islamic Translation)	Week 4	2	2
5	Quiz (3)	Week 5	1	1
6	- A midterm?	Week 6	7.5	7.5
7	- A midterm?	Week 11	7.5	7.5
8	Final theoretical test	senior year	40	40
9	Practical Field Drawing	Week 5	5	5
10	Laboratory assessment	Week 3	2	2
11	Practical Quiz (1) Quiz	Week 1	1	1
12	Practical Quiz (2) Quiz	Week 4	0.5	0.5
13	Practical Quiz (3) Quiz	Week 4	1	1
14	Direct Drawings and Homework	Weeks 6, 8,9,10,11,12 and13	5.5	5.5
15	Final Practical Test	senior year	20	20
	Total	100	100%	100%

12. Learning and Teaching Resources

Required textbooks (methodology if any	Forestry and Afforestation (1990). Abdullah , Yawaz Shafiq and Adel Ibrahim Al-Kinani . Dar Ibn Al-Athir for Printing and Publishing,224Ministry of Higher Education and Scientific Research.
Key References (Sources)	- None
Recommended supporting books and references (scientific journals, reports...)	None
E-References , Websites	https://arab-ency.com.sy/ency/details/7779/13-1 2- https://www.fao.org/3/cb9363ar/cb9363ar.pdf

Theoretical subject teacher
Dr. Samer Ameer Hanna

Practical Instructor
MSc . Hanan Ghanem Saadallah

President of the Scientific Committee
Prof. Dr. Mohammed Younis Al-Alaf

Head of Forest Science Department
Prof. Dr. Muzahim Saeed Younis