

## Description of the course/ Forest protection

1.	Course name:	Forest protection
2.	Course code	AGFO24-F4051
3.	Semester/Year:	First Semester/Fourth Stage/ 2024-2025
4.	The date this description was prepared :	1/9/2024
5.	Available attendance form	Blended learning
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 dr. Raghad Abdul Razzaq Jamal/ Practical
8.	Course objectives	<ul style="list-style-type: none"> <li>The learner should be able to identify the cause of the damage caused by non-living climatic factors</li> <li>The learner is aware of the developmental service processes necessary to protect trees in the forest .</li> <li>The learner should be familiar with the weather and climate affecting the spread and distribution of forest trees.</li> <li>The learner should be aware of the risk of fires as an important factor in forest degradation.</li> <li>The learner should have the ability to identify damage and prevent extreme factors such as drought, wind, heat, humidity, etc.</li> </ul>
9.	TEACHING AND LEARNING STRATEGIES	
	<ul style="list-style-type: none"> <li>- Interactive lecture</li> <li>- Brainstorming</li> <li>- Dialogue and Discussion</li> <li>- Field Training</li> </ul>	<ul style="list-style-type: none"> <li>- Presentations of models of the body of insects</li> <li>- Assigning specific tasks and preparing reports on them</li> <li>- Self-learning</li> <li>- Practical Exercises</li> </ul>
10.	10. Course Structure	

Week	Hours	Learning outcomes required for the program*	Unit or Topic Name	Learning method	Valuation Method
1	theoretical descriptive	A1 :Learn about the science of forest conservation and its historical background – its functions – its objectives	Defining the science of forest conservation and giving a historical overview of it	Interactive lecture, brainstorming, dialogue and self-learning	Quiz I Final Quiz
	3 Practical	A10: Recognizes an introduction to forest conservation science	- Maintenance of Forests;	Interactive lecture, brainstorming, dialogue and field training, self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."
2	2 Theoretical	A2 : Understands the importance of wildfires	forest fires	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	A11 : Familiar with some information on forest degradation and extinction factors	Forest degradation and extinction factors	Interactive lecture, brainstorming, dialogue and field training, practical exercises, self-learning	Direct application using available tools
3	2 Theoretical	C1 : Extracts methods to combat forest fires	forest fires	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 1, Final Quiz
	3 Practical	A15 : Determines the main effects of temperature on plants in general	Basic Effects of Temperature on Plants	Interactive lecture, brainstorming, dialogue and field training, self-learning	View Field
4	2 Theoretical	A3: Draws up a list of the most important machinery and equipment needed to extinguish fires	Machinery and equipment to extinguish fires	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 1, Final Quiz,
	3 Practical	E2 : Estimates the severity of forest fires	forest fires	Interactive lecture, brainstorming, dialogue and self-learning	Practical Quiz 2.





				discussion, training, exercises, learning	field practical self-	Live Drawing
5	2 Theoretical	C2: Shows how to take advantage of fires for forest conservation purposes	Utilization of fires for forest conservation purposes	Interactive lecture, brainstorming, dialogue and discussion, self-learning		Quarterly Quiz 1, Final Quiz
	3 Practical	A12 :Learns how to diagnose plant disease	Pathognomy	Interactive lecture, brainstorming, dialogue and discussion, field practical self-learning		Views from live models
6	2 Theoretical	A4: Determines the damage of gases and fumes and their effects on forests	Gases, fumes and their effects on forests	Interactive lecture, brainstorming, dialogue and discussion, self-learning		Quiz, Final Quiz
	3 Practical	B2: Illustrates the negative effects of acid rain	Negative effects of acid rain	Interactive lecture, brainstorming, dialogue and discussion, field practical self-learning		Direct drawing and homework
7	2 Theoretical	E1: Confirms the harmful effect of toxic gases by examining the leaves and viewing the manifestations of the injury	Diagnosis of adverse effects of toxic fumes	Interactive lecture, brainstorming, dialogue and discussion, self-learning		Quarterly Quiz 2, Final Quiz
	3 Practical	A14: Knows the bush and ways to combat it	The jungle and ways to combat it	Interactive lecture, brainstorming, dialogue and discussion, field practical self-learning		Figure Presentation
8	theoretical descriptive	A5 : Identify climate factors that are harmful to forests	4.2. Climatic Factors	Interactive lecture, brainstorming, dialogue and discussion, self-learning		Quarterly Quiz 2, Final Quiz
	3 Practical	C5: Explains the impact of toxic fumes and gases on forest trees	Effect of fumes and toxic gases on forest trees	Interactive lecture, brainstorming, dialogue and discussion, field practical self-learning		Direct drawing and homework

9	2 Theoretical	A6 : Identifies damages caused by climatic events	Damage caused by climatic events	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 2, Final Quiz
	3 Practical	B3: Document the injury and diagnosis of forests with toxic pollutants	Injury and diagnosis of forests with toxic pollutants	Interactive lecture, brainstorming, dialogue and field practical self-learning	Direct drawing and homework
10	2 Theoretical	C3 : Concludes preventive measures and measures to reduce the impact of climatic events	Preventive measures to reduce the effects of climatic events	Interactive lecture, brainstorming, dialogue and self-learning	Quarterly Quiz 2
	3 Practical	C6: Clarifies the classification of the highest ranks in insects	Classification of top ranks in insects	Interactive lecture, brainstorming, dialogue and field practical self-learning	Live Drawing Homework
11	2 Theoretical	C4: Shows the most important adverse effects of drought and rain	Adverse effects of drought and rain	Interactive lecture, brainstorming, dialogue and self-learning	A final test
	3 Practical	A18 : characterizes pesticides	Pesticides	Interactive lecture, brainstorming, dialogue and field practical self-learning	- Homework
12	2 Theoretical	A7: Recognize the importance of having a biological balance within the forest	Bio-balance within the forest	Interactive lecture, brainstorming, dialogue and self-learning	A final test
	3 Practical	B4: Identifies the class of winged insects in addition to a scientific visit	Winged insects in addition to a scientific visit	Interactive lecture, brainstorming, dialogue and field practical self-learning	Direct drawing and homework
13	2 Theoretical	A8 :Determines human damage to forests	Human damage to forests	Interactive lecture, brainstorming, dialogue and	A final test

				discussion, self-learning	
	3 Practical	A17 : Explains the classification of succulent straw insects	Classification of Juice Pipettes Insects	Interactive lecture, brainstorming, dialogue and field practical self-learning	- Homework
	2 Theoretical	A9: Schedules the most important harmful plants (jungles) in the forests	Harmful Plants	Interactive lecture, brainstorming, dialogue and self-learning	Quiz, Final Quiz
14	3 Practical	A16: Classifies human damage to forests	Human damage to forests	Interactive lecture, brainstorming, dialogue and field practical self-learning	"Little Things." Little taste. Yeah, let's run "Little Things."
	2 Theoretical	B1: He calls the preventive measures to protect forests from them by mechanical, biological and chemical methods	Preventive measures to protect forests by mechanical, biological and chemical methods	Interactive lecture, brainstorming, dialogue and self-learning	Quiz, Final Quiz
15	3 Practical	A13 : Identifies harmful plants	Harmful Plants	Interactive lecture, brainstorming, dialogue and field practical 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	<a href="https://arab-ency.com.sy/ency/details/7779/13-1">https://arab-ency.com.sy/ency/details/7779/13-1</a> 2- <a href="https://www.fao.org/3/cb9363ar/cb9363ar.pdf">https://www.fao.org/3/cb9363ar/cb9363ar.pdf</a>

  
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