Course Description Form

1. Course Name:

Forest measurements

2. Course Code:

FOME300

3. Semester / Year:

Second Semester / 2024-2025

4. Description Preparation Date:

1/2/2025

5. Available Attendance Forms:

Integrated

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)

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Name: Faiza Ali Rasheed

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8. Course Objectives

Theory:

- Developing the student's ability to deal with scientific and technical means
- Developing the student's ability to deal with the Internet
- Developing the student's ability to deal with multiple media.
- Developing the student's ability to dialogue and discuss

Developing the student's ability to deal economically in the field the job.

Practical:

- -Developing the student's ability to deal with multiple media.
- Developing the student's ability to dialogue and discuss

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 basic concepts of forest science, their applications in various fields, and the relationship between science Analogies with other forest sciences practical:	Theory: General introduction, metrology practical: Delete abnormal data	Theory: -Auditory methods, -Style of writing on blackboard -Direct dialogue style Practical:	Exams, Homework, Reports

		a9: Knows how to delete		Assigning tasks	
		Anomalous data by		and reports	
		finding			
		Standard deviation of the			
		data			
2	2Theory	Theory:	Theory:	Theory:	Exams,
	3 Pract.	a2: Familiar with the units	Units used in	-Auditory	Homework,
		used in measurement, how	measurement and their	methods,	Reports
		to convert between them,	systems	-Style of	
		and measurement errors		writing on	,
			practical:	blackboard	
		practical:	Draw and balance the	-Direct dialogue	
		c6: Draw and balance the	curve	style	
		curve		Practical:	
				Assigning tasks	
				and reports	
3	2Theory	Theory:	Theory:	Theory:	Exams,
	3 Pract.	a3: Understands diameter	Tree variables	-Auditory	Homework,
		at dbh, diameter at		methods,	Reports
		different levels and	Practical:	-Style of	
		diameter	Diameter measurements	writing on	
		measuring devices	trees	The blackboard.	
		practical		-Direct dialogue	
		a10: Learn about the		style	
		devices for measuring the		Practical:	
		diameter of trees		Assigning tasks	
	2001	777	701	and reports	
4	2Theory	Theory:	Theory:	Theory:	Exams,
	3 Pract.	a4: Identify tree tables in	Tree variables	-Auditory	Homework,
		terms of basal area,	munotical.	methods,	Reports
		average diameter, height and size	practical : Basal area	-Style of	
			Dasai area	writing on The blackboard.	2
		practical: a11: Finds the basal area	and the second	-Direct dialogue	
		of trees and the basal area		style	
		per unit area	12	Practical:	
		per unit area	ि दर्भा	Assigning tasks	
	ς.		M. Jan	and reports	
5	2Theory	Theory:	Theory:	Theory:	Exams,
5	3 Pract	C1: The measurement of	Stand variables	-Auditory	Homework,
	Jilact	the basal area of trees is	Stalid valiables	methods,	· / /
		applied, measuring the	practical:	-Style of	Reports
		basal area per unit area	Measuring tree heights	writing on	
		practical:	111000011115 tree itergines	The blackboard.	
		a12: Learn about the types		-Direct dialogue	
		of devices for measuring		style	
		tree height and practice		Practical:	
		measuring height		Assigning tasks	
		mathematically and in the		and reports	
		field			
6	2Theory	Theory:	Theory:	Theory:	Exams,
U	3 Pract	a5: Describes the total	Measuring tree heights	-Auditory	Homework,
		height, crown center		methods,	Reports
		height, crown center height, crown length,	practical:	-Style of	Reports

7	2Theory 3 Pract	crown width practical: A13: Identify tree variables devices and practice them in the field Theory: c2: Uses height measuring devices practical: a14: He is familiar with the	Theory: Measuring tree heights practical: Estimating the shape of the tree	writing on The blackboardDirect dialogue style Practical: Assigning tasks and reports Theory: -Auditory methods, -Style of writing on The blackboard.	Exams, Homework, Reports
		method of determining stem shape and practices it in the field		-Direct dialogue style Practical: Assigning tasks and reports	
8	2Theory 3 Pract	Theory: A6: Presents methods for studying the shape of a tree trunk (shape factor, shape point, shape quotient) practical: A15: Determines the age of trees and practices using an age measuring device in the field	Theory: Tree stem shape practical: Age of trees	Theory: -Auditory method -Style of writing on The blackboardDirect dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
9	2Theory 3 Pract	Theory: a7: Explains volume units, methods for estimating the volume of the solid part of a wooden stack practical: a16: Different methods are used to measure volume	Theory: Volume units used to measure wood practical: Size measurement	Theory: -Auditory methods, -Style of writing on The blackboardDirect dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
10	2Theory 3 Pract	Theory: a8: The measurement of tree sizes is known for the wooden trunks of standing trees practical: c7: Uses different methods to measure volume mathematically	Theory: Measuring tree sizes for the wooden trunks of standing trees practical: Size measurement	Theory: -Auditory methods, -Style of writing on The blackboardDirect dialogue style Practical: Assigning tasks and reports	Exams, Homework, Reports
11	2Theory 3 Pract	Theory: c3: Calculates the size of the tree (mathematical equations, graphical	Theory: Measuring the size of trees	Theory: -Auditory methods, -Style of	Exams, Homework, Reports

		method, displacement	practical:	writing on	
		method, integration)	Size tables	The blackboard.	
				-Direct dialogue	
		practical:		style	
		b3: Prepares local size		Practical:	
		tables		Assigning tasks	
				and reports	
12	2Theory	Theory:	Theory:	Theory:	Exams,
12	3 Pract	b1: Prepares tables of	size tables	-Auditory	Homework,
		local sizes and methods		methods,	Reports
		for preparing them	practical:	-Style of	reports
			Size tables	writing on	
		practical:		The blackboard.	
		b4: Prepares standard size		-Direct dialogue	
		tables		style	
				Practical:	
				Assigning tasks	
	OTT!	TI.	TO .	and reports	
13	2Theory 3 Pract	Theory:	Theory:	Theory:	Exams,
	3 Pract	b2: Prepares tables of standard sizes and methods	Size tables	-Auditory	Homework,
		for preparing them	practical:	methods, -Style of	Reports
		practical:	Form factor tables	writing on	
		practical.	1 offit factor tables	The blackboard.	
		b5: Prepares form factor		-Direct dialogue	
		tables		style	
			معة الموصل في	Practical:	
			الراعة والغابات ﴿	Assigning tasks	
				and reports	
14	2Theory	Theory:	Theory:	Theory:	Exams,
	3 Pract	C4: Applies the method of	stem analysis method	-Auditory	Homework,
		analyzing the stem in terms	علوم الغابات (methods,	Reports
		growth in diameter	practical:	Style of	
		practical:	Statistical system	writing on	
		A14: The computer is used to introduce statistical		The blackboard.	
		systems/laboratory		-Direct dialogue style	
		systems/laboratory		Practical:	
				Assigning tasks	
				and reports	
15	2Theory	Theory:	Theory:	Theory:	Exams,
	3 Pract	c5: Applies the method of	stem analysis method	-Auditory	Homework,
		analyzing the stem in terms	practical:	methods,	Reports
		of growth in height	stem analysis	-Style of	1
				writing on	
		practical:		The blackboard.	
		c8: The stem is analyzed by		-Direct dialogue	
		measuring tree variables,		style Practical :	
		whether for standing or cut trees / in the field		Assigning tasks	
		dees / in the field		and reports	
11. Co	urse Evalua	ation		- Topotto	
	valuation N		Date Degree		Relative
		Li tuluulion	Degree		110100110

				weight %
Final report theory + pract.	+ pract. Theory 15		7 Theory +	% 18
Report	Pract. 1-15	week	6 pract.	
Short exam (1)	Week (3)		4 Theory +	% 7
			2 pract.	
Half exam (theory + pract.)	Week (9)		10 Theory +	% 10
			5 pract.	
Short exam (2)	Week (12)		4 Theory +	% 7
			2 pract.	
Final exam (practical)	Exam prac	et.	20	% ۲.
Final exam (theory)	Exam theory		40	% € ⋅
			100	% 1
12. Learning and Teaching Resour	rces			
Required textbooks (curricular book	Forest mensur	ation		
Main references (sources)	Forest mensur	ation		
Recommended books and reference	es (scientific			
journals, reports)				

Teacher of Theory: Dr. Ammar Jasim Mohammed

Teacher of Practical: Faiza Ali Reasheed

Chairman of the Scientific Committee : Sumod Husain Ali

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