Course Description Form Dendrology

1. Course Name:

Dendrology

2. Course Code:

DEND254

3. Semester / Year:

1st Semester / 2023-2024

4. Description Preparation Date:

1/9/2023

5. Available Attendance Forms:

Attendance

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)

Name: Dr. Haees Savel Iaries

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Name: Dr. Shahla abdalrazagh Basher

8. Course Objectives

Theory:

- -Enabling the student to understand and comprehend the foundations of plant division and an overview of the history of plant division and the stages of its development
- -The student's familiarity with the vegetative and reproductive parts of the tr
- -Preparing cadres capable of identifying a knowing methods for diagnosing and classifying forest trees.
- -Enable the student to name types of forestrees according to the international rules of botanical nomenclature
- -Enabling the student to know and identif the minor and major taxonomic ranks
- -Students' familiarity with the types of forest trees, including local and introduced seedless and seedless ones.
- -Choosing the suitability of forest tree species to various environmental conditio
- Enabling the student to use chemical classification in solving problems resulting from phenotypic similarity and diagnosing and distinguishing tree species by their content of chemical compounds.

Practical:

- •Enabling the student to practically collect and preserve plar
- •Preparing qualified cadres to use various methods of diagnosing forest trees
- •Determine the appropriate type of planting by knowing and identifying the types of deciduous or evergreen trees.
- •Practical identification of the various parts of the vegetative and reproductive tree
- The student should be able to use one of the diagnostic methods practically, directly in the forest

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Teaching and Learning Strategies -Interactive lecture 9.

Strategy

- -Brainstorming
- -Dialogue and discussion
 Assigning tasks and reporting

10. Course Structure

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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method				
1	2Theory 3 Practical.	Theory: A1 Learn about the principles and foundations of plant division Practical: A9 Introducing the sources of plant identification- B2How to collect, dry and load plant specimens into the herbarium - Uses too to collect d	Theory: Principles and foundations of pla division and some division terms Practical: Collect, dry and preserve models						
2	2Theory 3 Practical	Theory: A2 is familiar with th objectives of segmentation science and some segmentati terminology A4 recognizes the stages and eras that t science of division passed through practical: A10 Recognizes leave Definition of leaf - Le structure - Understar the arrangement of leaves on the stem-B3 Uses and sees models and paintings simple and compoun leaves and the arrangement of leave on the stem	division and its relationship to ot sciences practical: Vegetative characteristics of trees	•	Quotes and interacti in the lecture Short test				
3	2Theory 3 Practical	Theory: A6 Understands the history of botanical	Theory: A historical overview of the	Theory: In-person lectures with field visits	Short test Direct drawing				

		taxonomy practical: A12 Identify leaves - types of leaves according to the shap of the blade B4- Explains the typ of leaves in relation t the edge of the blade. C3- Experiments with models and drawings on the shapes of the l blade and the shapes the blade edge.	science of plant division practical: Vegetative characteristics of trees	Practical: In-person lectures with field visits	
4	2Theory 3 Practical	Theory: E3 Identify the foundations of plant evolution and the bas trends of evolution practical: C4 sees leaf venation the characteristics of the leaf surface B5 Apply and watch models and paintings about leaf veining, its types, and the characteristics of the paper surface		with field visits	Field evaluation Direct drawing
5	2Theory 3 Practical	Theory: A3 identifies the maje and minor taxonomic ranks practical: A13- Identify the flow - the structure of the flower. C6- Draw and show the symmetry i the flower - the arrangement of the flowers.	Theory: Major and minor taxonomic ranks practical: Reproductive characteristics of trees	Theory: In-person lectures with field visits Practical: In-person lectures with field visits	Short test Direct drawing
6	2Theory 3 Practical	Theory: B1 Uses correct scientific names practical: A14: Gets acquainted with unlimited inflorescences - limit inflorescences - familiarizes with	practical:	Theory: In-person lectures with field visits Practical: In-person lectures with field visits	Short test Direct drawing

		methods for studying floral squares			
7	2Theory 3 Practical	Theory: A5 Choose one of the modern classification system Practical: A15: Identify fruits - types of fruits - characteristics that h in classification - branches - bark	classification systems in the wo practical: Reproductive characteristics of	Theory: In-person lectures with field visits Practical: In-person lectures with field visits	Short test Direct drawing
8	2Theory 3 Practical	Theory: C1 explains the most important diagnostic methods used practical: A16Learning about plant diagnosis meth - Familiarity with the use of plant keys - Viewing types of fore trees on field tours		Theory: In-person lectures with field visits Practical: In-person lectures with field visits	Short test Direct drawing
9	2Theory 3 Practical	Theory: C2 Proposes classification traits and clues family practical: A17 Identify some see families - Cycads - Ginkgoaceae - Taxus Taxodium - Pine	Theory: Characteristics, classification indi and their types practical: Some gymnosper families	Practical : In-person lectures	Short test Direct drawing
10	2Theory 3 Practical	Theory: runs seminars on most important racters used in plant sification practical: A18 is devoted to the Cypress family - field observation - to ident the types of trees belonging to the seed bed.		Theory: In-person lectures with field visits Practical: In-person lectures with field visits	Short test Direct drawing
11	2Theory 3 Practical	Theory: E1 Justifies the importance of using chemical classificatio and byproducts	Theory: Principles of chemical classification practical:	Theory: In-person lectures with field visits Practical: In-person lectures	Short test Direct drawing

		with the bearing he is fan	s acquainted group of cat- inflorescence niliar with the amily - the	Field obso	ervation	with field visits	
12	2Theory 3 Practical	Theory: E2 deter appropr classific plant qu practica A20 lear beech fa mulberr	rmines the riate ation for the een	Theory: Classification of plant kingdom practical: Some families are angiosperms Theory: In-person lecture with field visits Practical: In-person lecture with field visits		In-person lectu with field visits Practical: In-person lectu	res
13	2Theory 3 Practical	Theory: Compares monocots Dicotyledons practical: A21 Get to know the Almas family, the Tawouk family, the A Janar (plane) family		Theory: Gymnosperms practical: Some of families a angiosperms		Theory: In-person lectu with field visits Practical: In-person lectu with field visits	res
14	2Theory 3 Practical	Theory: A7 Identify the most important families of Dicotyledons practical: A22 Recognizes the Rosaceae family, the Butterfly family, and Acacia family		Theory: Angiosperms Practical:: Some of families a angiosperms		Theory: In-person lectu with field visits Practical: In-person lectu with field visits	res
15	2Theory 3 Practical	angiosp practica D2 cond	ucts field visi about types (Theory: Some of families a angiosperms Practical: Field observation Theory: In-person lecture with field visits Practical: In-person lecture with field visits		In-person lectu with field visits Practical: In-person lectu	res
11.	Course Evalua	ation					
	Evaluation Methods Evaluation I					Relative weight %	
	Final report theory + Theory 15 w				-	% 13	
\vdash			Pract. 1-15 v	-			04.6
	Short exam (1) Week (3)			4 Theory + 2 pract.		% 6	
<u> </u>	Half exam (theory + Week (9)				10 The		% 15

	pract.)			5 pract.				
	Short exam (2) Week (12)			4 Theory +	% 6			
				2 pract.				
	Final exam (practical)	Exam pract.	•	20	% 2	0		
	Final exam (theory)	Exam theor	у	40	% 4	0		
				100	% 1	00		
12.	Learning and Teaching	g Resources						
Requ	Required textbooks (curricular books, if any			1				
			translated by Dr. Walid Aboudi Kassir and others - Universit					
			Press Directorate - 1985					
Mair	Main references (sources)							
Recommended books and references			Wood technology book - written by Dr. Latif Haji Dr. Samir					
(scie	entific journals, reports)		Fouad					
Elec	tronic References Websit	<u></u>		·		·		



مدرس المادة النظري: د. هايس صايل جرجيس عالم عنه النظري: د. هايس صايل المادة النظري:

رئيس اللجنة العلمية: ١.د. محمد يونس العلاف رئيس قسم علوم الغابات: م.د. مزاحم سعيد البك