Course Description Form Dendrology

1. Course Name:
Dendrology
2. Course Code:
DEND254
3. Semester / Year:
1st Semester / 2024-2025
4. Description Preparation Date:
1 / 9 / 2024
5. Available Attendance Forms:
Built-in
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 Sayel Jarjes Email: haees_sayel@uomosul.edu.iq Name: M.M. Hanan Ghanem Saadallah

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 fores trees according to the international rules c 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 models •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

9. Teaching and Learning Strategies	
Strategy	-Interactive lecture -Brainstorming -Dialogue and discussion - Assigning tasks and reporting

10. Course Structure

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	Theory : In-person lectures Practical : In-person lectures with clarification of the sections with pictures and using wood samples in th laboratory	Discussions and interaction in the lectu and a short test
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	Theory: Objectives of plar division and its relationship to ot sciences practical : Vegetative characteristics of trees	Theory : In-person lectures Practical : In-person lectures with field visits	Quotes and interacti in the lecture Short test
3	2Theory 3 Practical	Theory: A6 Understands the history of botanical taxonomy	Theory: A historical overview of the science of plant	Theory : In-person lectures with field visits	Short test Direct drawing

		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.	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	Theory: Foundations of pl evolution and bas trends of evolutic practical : Reproductive characteristics of trees	Theory : In-person lectures with field visits Practical : In-person lectures with field visits	Field evaluation Direct drawing
5	2Theory 3 Practical	Theory: A3 identifies the maj and minor taxonomic ranks practical : A13- Identify the flov - 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 methods for studying	Theory: Theoretical: Principles of botanical nomenclature practical : Reproductive characteristics of trees	Theory : In-person lectures with field visits Practical : In-person lectures with field visits	Short test Direct drawing

		floral squares			
7	2Theory 3 Practical	Theory: A5 Choose one of the modern classificatior system Practical: A15: Identify fruits - types of fruits - characteristics that h in classification - branches - bark	Theory: Common classification systems in the wc practical : Reproductive characteristics of trees	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: Plant Identificatic practical : Use the keys to identify some tre species	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 a clues family practical : A17 Identify some se families - Cycads - Ginkgoaceae - Taxus Taxodium - Pine	Theory: Characteristics, classification indi and their types practical : Some gymnosper families	Theory : In-person lectures with field visits Practical : In-person lectures with field visits	Short test Direct drawing
10	2Theory 3 Practical	Theory: runs seminars on most important racters used in plant ssification practical : A18 is devoted to the Cypress family - field observation - to iden the types of trees belonging to the seed bed.	Theory: Characteristics adopted in plant classification practical : Some gymnosper families	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 practical :	Theory: Principles of chemical classification practical : Field observation	Theory : In-person lectures with field visits Practical : In-person lectures with field visits	Short test Direct drawing

		A19 Gets acquainted with the group of cat bearing inflorescence he is familiar with the willow family - the hickory family			
12	2Theory 3 Practical	Theory: E2 determines the appropriate classification for the plant queen practical : A20 learns about the beech family - the mulberry family - C7 conducts a field visit	Theory: Classification of plant kingdom practical : Some families are angiosperms	Theory : In-person lectures with field visits Practical : In-person lectures with field visits	Short test Direct drawing
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 lectures with field visits Practical: In-person lectures with field visits	Short test Direct drawing
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 lectures with field visits Practical : In-person lectures with field visits	Short test Direct drawing
15	2Theory 3 Practical	Theory: A23 recognizes some angiosperm families practical : D2 conducts field visi to learn about types forest trees	Theory: Some of families a angiosperms Practical: Field observation	Theory : In-person lectures with field visits Practical : In-person lectures with field visits	Semester exam 2, fin exam

11. Course Evaluation

	Evaluation Methods	Evaluation Date	Degree	Relative weight %
	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

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any	The book Wood as a Raw Material, by George Tsumis, translated by Dr. Walid Aboudi Kassir and others - Universit Press Directorate - 1985
Main references (sources)	
Recommended books and references (scientific journals, reports...)	Wood technology book - written by Dr. Latif Haji Dr. Samir Fouad
Electronic References, Websites	

Theoretical subject teacher: Dr. Haees Sayel Jarjes

Practical subject teacher: M.M. Hanan Ghanem Saadallah

Chairman of the Scientific Committee. : Prof. Dr. Muhammad Yunus Al-Alaaf

Head of the Department of Forestry Sciences: Prof. Dr. Muzahim Saeed Al-Bek