

Course Description Form Dendrology

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| 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: | |
| | 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 Sayel Jarjes | |
| | Email: haees_sayel@uomosul.edu.iq | |
| | Name: Hamid Ibrahim | |
| 8. | Course Objectives | |
| | <p>Theory :</p> <ul style="list-style-type: none"> -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 tree -Preparing cadres capable of identifying and knowing methods for diagnosing and classifying forest trees. -Enable the student to name types of forest trees according to the international rules of botanical nomenclature -Enabling the student to know and identify 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 conditions - 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. | <p>Practical :</p> <ul style="list-style-type: none"> •Enabling the student to practically collect and preserve plant 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 | | | | | |
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| Strategy | <ul style="list-style-type: none">-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 plant 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 the laboratory | Discussions and interaction in the lecture and a short test |
| 2 | 2Theory 3 Practical | Theory: A2 is familiar with the objectives of segmentation science and some segmentation terminology A4 recognizes the stages and eras that the science of division passed through practical : A10 Recognizes leaf structure - Leaf structure - Understand the arrangement of leaves on the stem- B3 Uses and sees models and paintings of simple and compound leaves and the arrangement of leaves on the stem | Theory: Objectives of plant division and its relationship to other sciences practical : Vegetative characteristics of trees | Theory : In-person lectures Practical : In-person lectures with field visits | Quotes and interaction 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 |

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| | | taxonomy practical: A12 Identify leaves - types of leaves according to the shape of the blade B4- Explains the type of leaves in relation to the edge of the blade. C3- Experiments with models and drawings on the shapes of the leaf blade and the shapes of 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 basic 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 plant evolution and basic trends of evolution 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 major and minor taxonomic ranks practical : A13- Identify the flower - the structure of the flower. C6- Draw and show the symmetry in 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 | 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 |

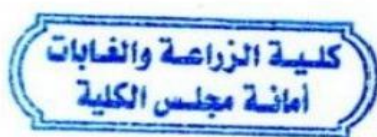
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| | | methods for studying floral squares | | | |
| 7 | 2Theory 3 Practical | Theory: A5 Choose one of the modern classification system Practical: A15: Identify fruits - types of fruits - characteristics that h in classification - branches - bark | Theory: Common classification systems in the wo 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 : A16 Learning about plant diagnosis meth - Familiarity with the use of plant keys - Viewing types of fore trees on field tours | Theory: Plant Identification practical : Use the keys to identify some tree 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 and clues family practical : A17 Identify some seed families - Cycads - Ginkgoaceae - Taxus Taxodium - Pine | Theory: Characteristics, classification indi and their types practical : Some gymnosperm 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 characters used in plant classification practical : A18 is devoted to the Cypress family - field observation - to identify the types of trees belonging to the seed bed. | Theory: Characteristics adopted in plant classification practical : Some gymnosperm 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 classification and byproducts | Theory: Principles of chemical classification practical : | Theory : In-person lectures with field visits Practical : In-person lectures | Short test Direct drawing |

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| | | practical : A19 Gets acquainted with the group of cat bearing inflorescence he is familiar with the willow family - the hickory family | Field observation | with field visits | |
| 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 are 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 are 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 visit to learn about types of forest trees | Theory: Some of families are angiosperms Practical: Field observation | Theory : In-person lectures with field visits Practical : In-person lectures with field visits | Semester exam 2, final exam |

11. Course Evaluation

| | Evaluation Methods | Evaluation Date | Degree | Relative weight % |
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| | 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 + | Week (9) | 10 Theory + | % 15 |

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| | pract.) | | 5 pract. | |
| | 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 - University 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 | | | | |



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