Ministry of Higher Education and Scientific research



# Department of Horticulture

**College of Agriculture Engineering Sciences University of Salahadin**

**Subject: Nursery Technology and Management**

**Course Book – Year 2**

**Lecturer's name :Mr. Sazar Sami Noraldeen Academic Year: 2023-2024**

**Second semester (Spring)**

| **1. Course name** | | **Second Trimester** |
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| **2. Lecturer in charge** | | **Sazar Sami Noraldeen** |
| **3.** | **Department/ College** | **Horticulture/Agriculture** |
| **4.** | **Contact** | **e-mail:** [**Sazar.noraldeen@su.edu.krd**](mailto:Sazar.noraldeen@su.edu.krd) |
|  |  | **Tel: 07504495331** |
| **5. Time (in hours) per week** | | **Theory: 2 Practical: 2** |
| **6.** | **Office hours** | **8** |
| **7. Course code** | | **-** |
| **8.** | **Teacher's academic profile** | **I was a teaching staff in college of education in the university of** |
|  |  | **Salahadin (biology dept.), then I came to college of agriculture** |
|  |  | **because it is my specialty. I have conducted a lot of training courses** |
|  |  | **for students in practical and theoretical parts. I have also had many** |
|  |  | **management roles in the college, such as assistant of dean, and** |
|  |  | **supervisor of academic relationships.** |
| **9. Keywords** | |  |
| **10. Course overview: To familiarize students about the different aspects of building, managing, and maintenance of nurseries and its different components. In addition we will also talk about plant propagation with different methods and techniques in open fields and cultivated environments.** | | |
| **11. Course objective:**  **To teach students about the steps of nursery management and maintenance and the different mediums that can be used. In addition to that we will also explain plant propagation and its different methods.** | | |

| **12. Student's obligation**  Students should follow the rules in the hall. They should participate during lesson . They should be  .ready on time. Students must be well prepared for daily quiz and also for end course examinations | |
| --- | --- |
| |  | **Assignment** | **Point Each** | **Total points** | | --- | --- | --- | --- | |  | **Homework and Quizzes** | **1** |  | | **Theory & Practice** | **15(Theory) + 35(practice)** |  | **50** | | **Final (Theory:50)** | **Just theory final** |  | **50** | | **Total** |  |  | **100** |   **14. 14 .Assessment scheme** | |
| 1. **Forms of teaching**    1. Power point presentations: for the lectures and using explanation diagrams beside photos of the subjects discussed.    2. Running conservations to reach the solutions of some presented problems concerning ecological problems.    3. Field trips to the research center, gardens of grdarasha fields, and privately owned fields. Watching some movies concerning the importance of the topic, | |
| **14. 14. Assessment scheme**  **Assignment Point Each Total**  **Homeworks( (seminars and reports) & quizzes 1** | |
| 1. **Student learning outcome:**    1. Helping the students in acquiring the required skills.    2. Easy to do very rapid prototyping    3. Quick to learn, and good documentation | |
| 16-Reference:  1- Plant Propagation and Nursery Management by Ranjan Kumar Tarai, Bhimasen Naik, Ajit Kumar Sahu, Purandar Mandal  2- Principles of Horticulture by Charles Adams, Mike Early, Jane Brook, Katherine Bamford Level 2  3- Botany for gardeners by Brian Capon  4- Pruning and Training by David Joice and Christopher Brickel  5- Plant Propagation and Nursery Management by R.R Sharma and Manish Sirvastav | |
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**Course Programme:-**

| Week | Issue |
| --- | --- |
| 1st Week | Definitions of nurseries and its importance |
| 2nd Week | Importance of plant propagation |
| 3rd Week | modes of plant propagation+different types of propagation |
| 4th Week | Nursery beds |
| 5th Week | Soil treatments |
| 6th Week | Introduction to sexual and asexual propagation |
| 7th Week | Types of dormancy |
| 8th Week | Types of cutting |
| 9th Week | Layering Technology |
| 10th Week | Physiological basis of rooting and cutting |
| 11th Week | Grafting Techniques |
| 12th Week | Tissue culture methods and Hydroponic systems |
| 13th Week | Field Visit |
| 14th Week | Field Visit |

Note: this syllabus may be subjected to changes and the student will be notified well in advance.



Directorate of Quality Assurance and Accreditation

بهڕێوهبهرایهتی دڵنیایی جۆری و متمانهبهخشین

Ministry of Higher Education and Scientific research Q1 Define five from the following:-

Q2Distinguish or (Differentiate ) between the followings Q3Elucidate the following

Q4Combine (match) the following phrases

Q5Compare between Q6Fill in the blanks:

Q7 State true or false by rewriting the sentences with correcting the false phrases if there is any:

Q8Choose the right answer?



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