Ministry of Higher Education and Scientific research



# Department of Horticulture

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

**Subject: Cultivated Agriculture**

**Course Book – Year 4**

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

**First semester (Fall)**

| **1. Course name** | | **First Semester (Fall)** |
| --- | --- | --- |
| **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: 3** |
| **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: Study of Agriculture as a cultivative methods in Kurdistan, so that we can learn and applied it.** | | |
| **11. Course objective:**  **It is the intensive cultivation of horticulture products (vegetables, fruits, ornamental plants) under protective structures (GH, PH, low tunnels, hot bedmulch, hydroponic) having many objectives:**  **1- High quality and quantity.**  **2- Off season production.**   1. **Elongation of growing season (early and or delay).**   **4- Higher profit as a consequence.**  **This is possible, since we are able to manage:**   * 1. **Providing the protective plants with proper Env. Conditions (Temp. ↓or↑, R.H.↑or↓, light intensity ↓or↑ and CO2 ↓or↑).**   2. **Providing the plants with proper Nutritional requirements.**   3. **Providing the plants with well prepared soil, free from diseases, using resistant CSV's or free from diseases, or using sterilized growing media or fertilizer solution in soil less cultivation.**   **This sector is different from open field system in techniques to be applied but with similar basics** | | |

| **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 Quizes** | **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,. Watching some movies concerning the importance of the topic, | |
| **14. 14. Assessment scheme**  **Assignment Point Each Total**  **Homeworks( (seminars and reports) & quizzes 1 5** | |
| 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-Refrence:  1- “control environment Agriculture center” .University of Arizona. Retrieved 2015 2- “Cornell controlled Environment Agriculture” Cornel University. Retrieved 2015  3- “Controlled Environment Agriculture Center” Biodnamics Hydroponics | |
|  |  |
|  |  |
|  | |



Ministry of Higher Education and Scientific research

پێداچوونهوهی ها

ur course s section. *s to be a subject).* کۆر ئهم

**Course Programme:-**

| Week | Issue |
| --- | --- |
| 1st Week | Introduction and background to cultivation |
| 2nd Week | Greenhouses and protected cropping structured part 1 |
| 3rd Week | Greenhouses and protected cropping structured part 2 |
| 4th Week | Environmental modification in protected cropping |
| 5th Week | Environmental modification in protected cropping |
| 6th Week | Ventilation and air movement |
| 7th Week | Greenhouse sanitation and hygiene |
| 8th Week | Produce quality and assessment |
| 9th Week | Plant Propagation |
| 10th Week | Transplant production part 1 |
| 11th Week | Transplant production part 2 |
| 12th Week | Grafting |
| 13th Week | Vegetable propagation |
| 14th Week | Soilless greenhouse systems |

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?



نیشخهبهنامتم و یرۆج ییاینڵد یتهیارهبهوێڕهب Accreditation and Assurance Quality of Directorate