

1. Course name	Organic Agriculture
2. Lecturer in charge	Dr. Arshad Yaseen Khoshnaw
3. Department/Faculty	Horticulture/Agricultural Engineering Science
4. Contact	e-mail: arshad.yaseen@su.edu.krd
5. Time per week	Theory: 2 hrs/w and Practical 3 hrs/w
6. Office hours	Daily from 8:30am to 2:00pm
7. Course code	
8. Teacher academic profile	https://academics.su.edu.krd/arshad.yaseen
9. Keywords	Organic agriculture, Natural extracts, Sustainability
10. Course overview:	
<ul style="list-style-type: none"> • This course is designed to support undergraduate students in developing their knowledge on organic agriculture and to assist them in defining their mode of enquiry. • It will give students a general introduction practically and how to turn to organic farming. • Students will be introduced new roles for turning to organic agriculture. • Positive reaction with all of the natural systems to organic farming. • Students will be familiar to alternatives for the chemical fertilizers and pesticide in controlling nutrient deficiency and disease and insect problems • Soil conservation and increasing of fertility. 	
11. Course objective:	
<ul style="list-style-type: none"> • Vitalizations of new natural resources in agric. • Recommending agriculture production in agriculture system in deal with organic waste and nutrients. • Furnishing the proper condition for Animal resources for practicing its natural activity. • Avoiding pollution from fertilizers, chemicals and pesticides. 	
12. Student's obligation	
<p>The student must have an important role:</p> <p>1- Lecture attendance is compulsory.</p> <p>2-The students must contribute in the scientific discussions in the class or teaching hall.</p> <p>3-The students must know the importance of reports, quizzes, HomeWorks and exams.</p>	

It is necessary to contribute the student in presenting a scientific subject.

13. Forms of teaching

There are different forms of teaching:

- 1-Datashow and power point.
- 2- White board.
- 3-Lectures.
- 4- Any sort of academic resources which helps student understanding such as video shows

14. Assessment scheme

The course degree was divided as follow:

- 1- 3 degrees on quizzes, 2 degrees on HomeWorks
- 2- 1st month exam on 100%
- 3- 2nd month exam 100%

Note: To pass in this course, students must attend weekly, participate in all the academic activities and undertake the final exam

15. Student learning outcome:

There are numerous definitions and explanations for organic agriculture, but they all agree that it is a system that relies on ecosystem management rather than external agricultural inputs. It is a system that starts to think about potential environmental and social implications by reducing the use of synthetic inputs including synthetic fertilizers and pesticides, veterinary medications, genetically modified seeds and breeds, preservatives, additives, and irradiation. These are replaced with site-specific management approaches that preserve and improve long-term soil fertility while preventing pests and illnesses.

16. Course Reading List and References:

Magdoff, F., & Weil, R. R. (Eds.). (2004). *Soil organic matter in sustainable agriculture*. CRC press.

Tojo, S. (Ed.). (2020). *Recycle Based Organic Agriculture in a City*. Springer.

Scialabba, N. E. H., & Müller-Lindenlauf, M. (2010). Organic agriculture and climate change. *Renewable agriculture and food systems*, 25(2), 158-169.

Abrol, D. P., & Shankar, U. (Eds.). (2012). *Integrated pest management: principles and practice*. CABI.

1 - Organic agriculture. 2- The level of economic damage. 3 - Predators. 4 - Parasites. 5- Pathogens.
6 - Crop rotations. 7 - Macrobian. 8 - Phosphorene. 9 - The natural enemy.
Q5) A- Enumerate the methods use of integrated control?
B - What are green manures? Discuss this?
Q6) Explain: -
1 -The general principles of organic production.
2 -Define Crop Rotation. Enumerate Benefits of crop rotations
Q7) answer only two of the following: -
A- What are the measures that focus by organic farming?
B- What are the differences between - Organic and Non-organic Farming.
C- Why transition from traditional agriculture to organic farming? What is the transition period?

21. Peer review

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