Ministry of Higher Education and Scientific research



Department of Horticulture

College of Agricultural Engineering Sciences

Salahaddin University

Subject: Nut and Miscellaneous fruit production

Course Book – (Year 4)

Lecturer's name : Dr. Jehad Shareef Kader

Academic Year: 2021/2022

Course Book

1. Course name	Nut and Miscellaneous fruit production	
2. Lecturer in charge	Dr. Jihad Shareef Kader	
3. Department/ College	Horticulture/Agriculture Engineering sciences	
4. Contact	e-mail: jehad.kader@su.edu.krd	
	Tel: (optional) 07504051070	
5. Time (in hours) per week	Theory: 2	
6. Office hours	8	
7. Course code	0	
7. Course coue		
8. Teacher's academic	I got BSc. Degree from Horticulture and Landscape Design	
profile	Department /College of Agriculture and	
	Forestry/University of Mosul at 1993-1994.	
	I got MSc. Degree from Horticulture Department / College	
	of Agriculture / University of Sulaimani at 2008.	
	I got Ph.D. Degree from Horticulture and Landscape	
	Design Department /College of Agriculture and	
	Forestry/University of Mosul at 2016.	
	I'm lecturer in horticulture department /college of	
	agriculture / university of Salahaddin.	
9. Keywords	Fruit – bud – flower – tree – pruning – fertilizer – thinning	

10. Course overview:

Name of sustainable fruit production. The decision of the first chapter The objectives of Article. Study fruits of sustainable green in terms of commercial value and nature of growth and environmental conditions and service operations used and methods of cultivation and production of some plants fruit for example olive, citrus, banana and, guava, papaya and pineapple To alleviation the impact of the unit temperature rise citrus trees turn to some of the ways things such as windbreaks, planting citrus trees under the shade higher than such as planting citrus under the palm trees and irrigation at frequent intervals. Temperature and humidity are the main environmental factors controlling quality. The following changes are easily seen

11. Course objective:

A) - Being indigenous to the tropical climatic conditions of Southeast Asia, citrus fruit trees grow well in warmer regions that remain frost-free

throughout the year. But, if you are residing in areas, where winter remains cold, then also you can consider growing citrus fruits with proper planning. Need cultivation and production of citrus fruits in general to areas with a climate free from frost is the degree zero C° and below harmful levels where trees formation shoots and branches of modern small if the temperature dropped below zero centigrade.

B) - Different species and types of citrus fruits in the degree of resistance to low temperatures are considered genus citrus less races of these terms is tangerine Satsuma more types of genus citrus resistant to low temperatures, followed by the lemon dahlia, bitter orange and then the rest of the varieties tangerines, oranges and grapefruit.

12. Student's obligation

In this section the lecturer shall write the role of students and their obligations throughout the academic year, for example the attendance and completion of all tests, exams, assignments, reports, essays...etc

13. Forms of teaching

Data show + Power point + White board.

14. Assessment scheme

- $1 1^{st}$ month exam.
- $2-2^{nd}$ month exam
- 3 Absence + 3 degree.

15. Student learning outcome:

-Loquat equatorial region of the fruit, which has spread largely cultivated in China and Japan relative to (proportion to) the original. Where spreads are many varieties of wild planted their condition since more than 2000 years, and then transferred to Japan, and some scientists believe that the original is in China and Japan together.

-Then spread cultivated widely in India and the Himalayas, and then introduced نقل in the south of Europe and some countries of the sea coast.

- And introduced to Florida, transport from Europe, and from California to Japan, also spread grown in Australia and New Zealand, among others.

16. Course Reading List and References:

1 - Jauad Thanon Agha and David Abdullah Daoud. Sustainable fruit production

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nut fruit (1991) Part I

2 - Javad the Thanon Agha and David Abdullah Daoud. Sustainable fruit production deciduous fruit trees (1991) Part II.

Ibrahim, Atef Mohamed 1996, the basics of fruit production - planting - sponsorship and production. **Infantry** knowledge, the first edition, Egypt.

Exterior References:

1- Ali Alduri and Adil Alrawi. Fruit production (2000).

2 - Ghazi al-Banna and Abdel Aal Majazi. Sustainable fruit production Evergreen (1987) translated book.

3- Dr.J.S.BAL.FRUIT GROWING (2005). 4- Different web sits.

17. The Topics: Lec		Lecturer's name
1-	Introduction to sustainable fruit evergreen trees and divided Olive crop - the original home of distribution - the	Dr. Jihad Sh. Kader
	economic importance -Suitable Environment - fruiting.	2 hrs for each lecture
	Olive crop - flowers – pollination – set fruit - flowering and fruiting - Thinning - resistance to pests, insects and diseases.	in the week
2-	citrus crop - the original home of distribution - the economic importance – Plant taxonomy Economic importance – Bud formation - Pest Management - Fruit Thinning – harvest and storage.	
3-	Determine the suitable degree of picking citrus crop – Drop of flowers and fruiting - Thinning - resistance to pests, insects and diseases.	
4-	Bananas - banana crop - the original home and distribution - the economic importance suitable environmental requirements - climate factors – temperature - air humidity - low temperature - wind - soil factor– Irrigation.	
5-	Examination 1	
6-	Banana cultivation in greenhouses - Introduction - the establishment of a banana farm - stages of establishing a service and a banana farm.	
7-	Palm - the original home of proliferation - the economic importance – an appropriate environment	
8-	Palm - flowers and pollination and the set fruits- the evolution and maturity of the fruits of dates	
	Examination 2	
10-	 harvest of dates - Irrigation - determine the suitable degree of picking – resistance to pests, insects and 	

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diseases	
11- loquat - the original home - the economic importance and	
nutritional value – agricultural properties the suitable soil-	
suitable environment - irrigation – maturity andharvesting	
12- Pineapple - the original home - the economic importance	
and nutritional value - the suitable soil – suitable	
environmental - Increase flowers maturity	
and harvesting-	
13- Pineapple cultivation in greenhouse Plant division .	
14- Mango - Description Plant - Environment and mango	
Agriculture - Irrigation - mango production problems – the	
collection, packaging and storage of fruits	
concetion, packaging and storage of fraits	
18. Practical Topics (If there is any)	
In this section The lecturer shall write titles of all practical topics	M. Vian Adnan Zedan
he/she is going to give during the term. This also includes a brief	3 hrs for each group at
description of the objectives of each topic, date and time of the	the week.
lecture	
19. Examinations:	
Q1: A: Climate determining the limits of distribution of species, an	d world climate is
regulated by such things, what are they?	
Q2)- What are the harmful effect of low temperatures on the	citrus trees?
Q3) Explain the Plant taxonomy of citrus?	
Q4) What are the general climatic requirements for temperate $-zor$	ne trees and shrubs?
Q5) Correct the words which under line in the following s	entences?
Q6) Mention the stage of development fruit in generally?	
20. Extra notes:	
Here the lecturer shall write any note or comment that is not cove	•
he/she wishes to enrich the course book with his/her valuable rem	iarks.
21. Peer review	
This course book has to be reviewed and signed by a peer. The pee	er approves the contents
of your course book by writing few sentences in this section.	
(A peer is person who has enough knowledge about the subject you	-
has to be a professor, assistant professor, a lecturer or an expert in	the field of your
subject)	