

Ministry of Higher Education and Scientific research



Department of Plant Protection

College of Agriculture

University of Salahaddin

Subject: Horticulture Diseases

Course Book – (Year 4)

Hasan Hussein Ali/ Asst. Prof.

Academic Year: 2017/2018

Course Book

1. Course name	Orchard & Veg. Diseases
2. Lecturer in charge	Hasan Hussein Ali/ Asst. Prof.
3. Department/ College	Plant Protection/ Agriculture
4. Contact	e-mail: hasanhusein292@yahoo.com Tel: 00 964 750 339 7130
5. Time (in hours) per week	For example Theory: 2 Practical: 3
6. Office hours	Sunday to Wednesday
7. Course code	
8. Teacher's academic profile	<p>Hasan Hussein Ali is an asst. Prof. of Plant Pathology at the College of Agriculture, Salahaddin University, in the majority of his 40-year professional career. He graduated with first Class Honours in Plant Protection/Collage of Agriculture and Forestry from university of Mosul in 1983, ranking second in a class of around 57 graduates. In 1988 he was awarded a master degree in Plant Pathology/ Collage of Agriculture and Forestry from university of Mosul, he was started teaching as an Asst. lecturer from 1983-1990. And in 1990 he was promotion to Lecturer, as well as he is an Asst. Prof. since 1996. He got many awarded by Minster of Agriculture in Iraq and Chancellor and President of Mosul Uni. He published around 27 technical papers in journals, two of them were represented as first recorded in Iraq. He has been teaching some different subjects to Undergrad such as Mycology, Nematology, Plant Pathology, Field Crop Diseases, Orchard & Veg. Diseases, Horticulture Diseases and post Harvest Diseases, and for Postgrad Seed Pathology, Root Diseases, Advanced Mycology, Advanced Nematology and Advanced Plant Pathology, He also delivered around 8 keynote seminars and presentations at local conferences. He supervised to so many Students in the final year of Undergrad; he also supervised to successful completion of 5 Master students at the University of Salahaddin. He organized, participated and contributed to a number of</p>

	higher education conferences in Iraq and Kurdistan Reign. In addition to his academic posts.
9. Keywords	Orchard Diseases, Vegetable Diseases Symptoms, Control, Pathogen Causes
10. Course overview:	
<p>Considering the prevalence of various kinds of pathological that caused that affect Fruits Trees and Vegetables at Kurdistan reign, it is necessary to find ways to control these diseases through recognize and diagnosis them and then provide particular facilities to control them via cooperate with many companies around the word to find pesticides needed to control.</p> <p>It comes through the identification of these problems and diagnoses them to reach the goal which is how to increase the products in both quality and quantity.</p>	
11. Course objective:	
<p>After successfully completing this course, you should be able to:</p> <ul style="list-style-type: none"> • Describe a range of pathological problems that affect Fruits Trees and Vegetables. • Describe symptoms of a range of diseases that affect plants. • Describe disease life cycles and explain how this knowledge can be applied in disease control. • Explain the methods used to control diseases • Demonstrate a comprehensive knowledge of a particular Horticulture (Fruits and Vegetables). • Identify and describe a range of common pathogens that affect Fruits Trees and Vegetables. • Identify and study of the disease causes (Pathogens) such as Fungi, Viroid, Nematodes and Bacteria. 	
12. Student's obligation	
Weekly quizzes, attendances, 2 exams	
13. Forms of teaching	
Data show, Handouts, Power Point, Whiteboard	
14. Assessment scheme	
Students are evaluated during the semester by:	
<ul style="list-style-type: none"> • Short exams (quizzes) • 2 exams 	<p>5%</p> <p>20%</p>

- Subtotal total 25%
- Final exams 40%
- Total for the theoretical part 65%
- The practical part is given 35 marks in total including exams and final exams

15. Student learning outcome:

Students are expected to learn the significant of the most common diseases that effects and attack Fruits Trees and Vegetable Crops in Kurdistan Reign and identify the Pathogens which causes these diseases such as (Fungi, Viroid, Nematodes and Bacteria throughout the life cycle, classification and form.

Finally the students will learn how to protect plants from the diseases and how to treat control them and to indentify on the most common pesticides that used to control of diseases.

16. Course Reading List and References:

Suggested References

- Plant pathology, 5th edition. (2005), G.N. Agrios.
- Diseases of fruits and vegetables, volume II, 2004. Edition by S.A.M.H Naqvi.
- Diseases of Fruit Crops in Australia. (2009). By Tony Cooke, Denis Persley and Susan House.

17. The Topics: (Subjects Covered)

Week

Apple and Pear diseases I	Week 1
Apple and Pear diseases II	Week 2
Stone fruit Diseases I	Week 3
Stone fruit Diseases II	Week 4
Citrus Diseases.	Week 5
Olive and Fig Diseases.	Week 6
Pomegranate and Walnut	Week 7

Vegetable Diseases : Tomato & Potato Diseases I	Week 8
Tomato & Potato Diseases II	Week 9
Cucurbit Diseases: Cucumber Diseases	Week 10
Watermelon Diseases	Week 11
Exam + Crucifer Diseases	Week 12
Legume Diseases	Week 13
Onions & Garlic Diseases	Week 14
Revision	Week 15
18. Practical Topics (If there is any)	
<ul style="list-style-type: none"> Identify of Symptoms and Signs of the diseases. Identify of the Pathogens which cause the diseases. Methods of how to control the diseases 	3 Hours labs
<p>19. Examinations:</p> <p>Define the following terms:</p> <p>Explain the following such as: Symptoms of the diseases</p> <p>Control of the diseases</p> <p>Mention the scientific name of the pathogen diseases</p> <p>Compare between</p> <p>Benefits of use: Copper sulphate</p> <p>Early sowing</p> <p>Draw life cycle of: fire blight of apple</p>	
Extra notes	
21. Peer review	