



Kurdistan Regional Government
Salahaddin University
College of Agriculture Engineering Science
Department of Plant protections
Subject: Post Harvest Diseases/year 3
Lecturer's name: Dr Tahsein A. M. Amein
Academic Year: 2023 - 204

Course Book

1. Course name	Post Harvest Diseases
2. Lecturer in charge	Dr Tahsein A.M.Amein
3. Department/ College	Plant protection/ Agriculture
4. Contact	e-mail: tahsin.mohammad@su.edu.krd Tel: (optional) 0750 7422500
Time (in hours) per week	2
6. Office hours	Sunday (9 - 12) and Tuesday (9 - 12)
7. Course code	
8. Teacher's academic profile	Education and Academic degrees: 2014 – Assistant Professor 1988 – Ph D Plant Pathology, University of Agriculture, Poznan, Poland. 1984 – M Sc Plant Pathology, University of Agriculture, Poznan, Poland. 1981 – B Sc Plant Pathology, University of Agriculture, Alexandria, Egypt. Title of Ph D thesis: " Etiology and ecology of root and stem base diseases of wheat"

	<p>M Sc project:</p> <p>Susceptibility of two seed- potatoes varieties on bacteria <i>Erwinia carotovora ssp atroseptica</i> infection and occurrence of other diseases.</p> <p>Employment / Working experiences:</p> <ul style="list-style-type: none"> - Undergraduate teaching in Poland and in Sweden (Plant Pathology). - Responsible for postgraduate courses (Plant Pathology). (Sweden) - M Sc students in Sweden. - Projects leader and researcher. - International collaboration experience <ul style="list-style-type: none"> ➤ Working with a European Union (EU) project, were Universities from five EU – country members were involved in this project; Germany, Italy, Netherlands, England and Sweden besides of some seed companies. ➤ Teacher exchange (collaboration programs). - October 2012 – Present. Salahaddin University, College of Agriculture, Plant Protection Department. - Sep. 2009 – Oct. 2012. Swedish University of Agricultural Sciences (SLU), Department of Plant Biology & Forest Genetics. - July 2003 – Sep. 2006. Goteborg’s University. Department of Cell and Molecular Biology. - Feb. 2004 – Dec. 2005. The Mase laboratories (MASE – Microbial Activity for a Sound Environment). - Oct. 1991 – June 2003. Linked (with some exclusion for different periods) to Swedish University of Agricultural Sciences (SLU), Plant Pathology and Biocontrol Unit. - Sep.1997 - March 1998. Product development manager at Bio Agri AB. Research Company, Sweden. - June - July1990. Field assistant at Hushållningssällskapet. (Farmer’s local organization). Borås. Sweden. - Oct. 1984 – June 1988. University of Agriculture, Poznan, Poland.
<p>9. Keywords</p>	<p>Field crop diseases, cereal diseases, rusts, smuts, powdery mildew, fusarium, rice, corn diseases, pea diseases, diseases symptoms and sings.</p>
<p>10. Course overview:</p> <p>Postharvest loss: Is defined as any change in the quality or quantity of the product after harvest that decreases its value.</p> <p>Heavily annual losses are caused by plant pathogens that attack these crops wherever they are grown. Control programs request studying these pathogens and depending upon symptoms appearance and microscopic features, disease cycles and their developments, the disease diagnoses of the causals are possible.</p>	

11. Course objective:

Recognition of the disease, and understanding of the pathogen(s) responsible, is the first step in successful disease control. As a result of this course, the student will learn the importance of postharvest crop diseases. Get knowledge about many worldwide important diseases, particularly the most common crops grown under local conditions. Description of the disease, including the causal agent, symptoms, environmental conditions favorable for the disease development and provide a good control working knowledge.

12. Student's obligation:

Should be prepared for 10 min quizze in the begging of each lecture for the previous lecture's content. Collect diseased plants samples and identify in the lab. Write a report about a plant disease.

13. Forms of teaching

Teaching methods are, using data show, power point, white board, giving hand note, video reports.

14. Assessment scheme

Grade distribution of 15

Test	Mark 15
Exam	10
Quiz	2
Report	3
Total	15

Final examination out of (50%)

Monthly exam	Mark%
Theoretical exam	50

15. Student learning outcome:

As a result of this course, the student will learn the importance of postharvest crop diseases. Get knowledge about many worldwide important diseases, particularly the most common crops grown under local conditions. Description of the disease, including the causal agent, symptoms, environmental conditions favorable for the disease development and provide a good control working knowledge.

16. Course Reading List and References:

Main reference	Useful references	Magazines and review (Internet)
1. Agrios , G.N. (2005) . Plant Pathology . 5th ed . Academic press p.952 2. Fungi and Fungus – like Organisms The American Phytopathology Society. 2010 (internet)		Plant Pathology Articles and reviews

17. The Topics:**Lecturer's name**

In this section the lecturer shall write titles of all topics he/she is going to give during the term. This also includes a brief description of the objectives of each topic, date and time of the lecture
Each term should include not less than 16 weeks

Dr Tahsein A.M.Amein

*POSTHARVEST DISEASES***Subjects:****Weeks**

- Background (General Informations)	1
- Post Harvest Diseases And Disorders Of Vegetables	
- Tomato	2 - 3
- Post Harvest Diseases Of Potato	4
- Post Harvest Diseases Of Cucurbits	5
- Exam	6
- Family: Amaryllidaceae	7
- Strawberry diseases	8
- Post Harvest diseases of Apple and pear	9 – 10
- Postharvest diseases of Banana	11
- Postharvest diseases of Citrus)	12

<p>18. Practical Topics (If there is any)</p> <p>Plant Disease Collection: Visiting different fields and collecting diseased plant samples to identify in the lab. (Practical lect.).</p>	
<p>19. Examinations:</p> <p>1- Define the following?</p> <p>2- What is the differences between?</p> <p>3- How important this disease?</p> <p>4- Write the scientific name of?</p> <p>5- Which environment condition favour this disease?</p>	
<p>20. Extra notes:</p> <p>1- Quizzes: All quizzes require integration of the materials presented in lectures and in laboratories. 10 min. quizze at the beginning of each lect.</p>	
<p>21. Peer review پیداچونہوہی ھاوہل</p> <p>This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.</p> <p><i>(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).</i></p> <p>ئەم کۆرسبووکە دەبیت لەلایەن ھاوہلئیکى ئەکادیمیەوہ سەیر بکریت و ناوەرۆکی بابەتەکانى کۆرسەکە پەسەند بکات و جەند وشەیک بنووسیت لەسەر شیاوی ناوەرۆکی کۆرسەکە و واژووی لەسەر بکات.</p> <p>ھاوہل ئەو کەسەیکە کە زانیاری ھەبیت لەسەر کۆرسەکە و دەبیت پلەى زانستى لە ماموستا کەمتر نەبیت.</p>	