The University of Jordan

Faculty: Agriculture Department: Plant Protection

Program: Plant Protection 2013/2014, first semester

Principles of Plant Protection, Plant Pathology Part, Course No. 606101

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| --- | --- | --- | --- | --- | --- |
| Credit hours | 3 , shared with another colleague | Level | 2 | Pre-requisite | 304101 |
| Coordinator/ Lecturer | Prof. Dr.Ahmad Mohamad Almomany | Office  number | 258 | Office phone | 22513 |
| Course website | none | E-mail | momanyah@ju.edu.jo | Place | 189 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Office hours | | | | | |
| Day/Time | Sunday | Monday | Tuesday | Wednesday | Thursday |
| 10-11 | 10-11 | 10-11 | 10-11 | 10-11 | 10-11 |
|  |  |  |  |  |  |

Course Description

The course is designed to familiarize students with the principles of plant protection including both plant pathology and entomology parts. It will focus on the basic aspects of entomology and plant pathology dideases.

Learning Objectives

The main objectives of the course are:

1-Understand the principles of plant protection

2-Understand the infectious and environmental plant diseases

3-Understand the different methods of disease control

3-Understand the different factors disease spread, favorable environmental conditions and control of plant diseases.

Intended Learning Outcomes (ILOs):

Successful completion of the course should lead to the following outcomes:

A. Knowledge and Understanding: Student is expected to

A1- To differentiate between fungal diseases, viral and bacterial ones

A2- Realize the different components of disease development

B. Intellectual Analytical and Cognitive Skills: Student is expected to

B1- Know the different factors regarding the disease epidemiology

B2 Know how to control plant diseases safely

C. Subject-Specific Skills: Student is expected to

C1- Know the proper use of pesticides

C2- Know how to avoid pollution.

D. Transferable Key Skills: Students is expected to

D1- Know some vegetable diseases

D2- Know some fruit tree and ornamental diseases.

ILOs: Learning and Evaluation Methods

|  |  |  |
| --- | --- | --- |
| ILO/s | Learning Methods | Evaluation Methods |
| Principles of different control methods of plant diseases, exposed to some examples of plant pathogenic diseases | Lectures and Discussions | Exam, 9/12/2013  For plant pathology section |
|  |  |  |

Course Contents

|  |  |  |  |
| --- | --- | --- | --- |
| Content | Reference | Week | ILO/s |
| Introduction | 1, 2 | 9 | A2 |
| Development of plant pathology science | 1, 2 | *10* | B1 |
| Causal agents of plant diseases | 1, 2 | 11 | A1, A2 |
| Symptoms of plant diseases | 1, 2 | 11 | A1, A2, B1 |
| Effect of environmental factors on plant diseases | 1, 2 | 12 | A2, B1,C2 |
| Regulatory control of plant diseases | 1, 2 | 12 | B2, C2 |
| Cultural control of plant diseases | 1, 2 | 13 | B2, C2 |
| Physical control of plant diseases and use of resistant cultivars | 1, 2 | 13 | B2, C2 |
| Biological control of plant diseases and chemical control | 1, 2 | 13 | A1, A2, B2 |
| Examples on vegetable diseases and their control | 1, 2 | 14+15 | B2, D1 |
| Examples on fruit tree diseases and their control | 1, 2 | 16 | B2, D2 |

Learning Methodology:

Lectures and showing fresh samples during the lecture as well as data show to present some pictures for plant diseases.

Projects and Assignments

None, it is a principles course

Evaluation

|  |  |  |
| --- | --- | --- |
| Evaluation | Point % | Date |
| Midterm Exam | 30 |  |
| Midterm Exam  2 | 20 | 9/12/2013  pathology part |
| Final Exam | 50 | 9/1/2014 |

Main Reference/s:

- آفات الحديقة والمنزل ، أحمد المومني وتوفيق مصطفى ، عمادة البحث العلمي-الجامعة الأردنية، 2009 ، عمان ، 518 صفحة

References:

1- مقدمة في أمراض النبات ، أبوغرية وزملاؤه ، 1994 ، مؤسسة وائل للنسخ السريع.    عمان ، الاردن ، 374 صفحة

**Intended Grading Scale (Optional)**

0-39 **F**

40-49 **D**-

50-54 **D**

55-59 **D+**

60-64 **C**-

65-69 **C**

70-73 **C+**

74-76 **B**-

77-80 **B**

81-84 **B+**

85-89 **A**-

90-100 **A**

**Notes:**

* Concerns or complaints should be expressed in the first instance to the module lecturer; if no resolution is forthcoming, then the issue should be brought to the attention of the module coordinator (for multiple sections) who will take the concerns to the module representative meeting. Thereafter, problems are dealt with by the Department Chair and if still unresolved the Dean and then ultimately the Vice President. For final complaints, there will be a committee to review grading the final exam.
* For more details on University regulations please visit:

<http://www.ju.edu.jo/rules/index.htm>