



Jordan University of Science and Technology
Faculty of Agriculture
Plant Production Department

PP746 Plant Disease Diagnosis

Second Semester 2020-2021

Course Catalog

3 Credit Hours. Development of fundamental and practical knowledge for identification of plant diseases caused by biotic and abiotic factors. Introduce students to different diagnostic techniques used in the field and in the laboratory.

Text Book

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| Title | The Plant Diseases Clinic and Field Diagnosis of Abiotic Diseases. |
| Author(s) | Shurtleff, M. C., and Averre, A. W. |
| Edition | 1st Edition |
| Short Name | Ref # 1 |
| Other Information | 1997. American Phytopathological Society, St Paul, MN. |

Course References

| Short name | Book name | Author(s) | Edition | Other Information |
|------------|--|---|-------------|------------------------|
| Ref # 2 | Field and Laboratory Guide to Tree Pathology | ROBERT O. BLANCHARD and TERRY A. TATTAR | 1st Edition | Academic Press |
| Ref # 3 | Basic Plant Pathology Methods | Dhingra, O.D., and Sinclair, J.B. | 2nd Edition | CRC Press Inc., 355pp. |

Instructor

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| Name | Dr. Firas Abu El Samen |
| Office Location | C4L2 |
| Office Hours | Sun : 08:00 - 09:00 Sun : 09:30 - 11:30 Tue : 09:30 - 11:30 Wed : 08:00 - 09:00 Thu : 08:00 - 09:30 |

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| Email | hiasat@just.edu.jo |
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| Class Schedule & Room |
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Section 1:
Lecture Time: Wed : 09:00 - 10:00
Room: LAB

| Tentative List of Topics Covered |
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| Weeks | Topic | References |
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| Weeks 1, 2 | Introduction to Plant Disease Diagnosis: The art and science of plant disease diagnosis; reasons for diagnosing plant diseases, concepts in diagnosing plant diseases, steps in diagnosing a plant disease. | From Ref # 1 |
| Weeks 3, 4 | The Plant Disease Clinic : Equipments and Supplies, field Clinics. | From Ref # 1 |
| Week 5 | Gathering Information: Examining Field Problems, Recording field information, Collection, and preparation and shipping disease specimens. | From Ref # 1 , From Ref # 2 |
| Weeks 6, 7 | Diagnosing in the Field: Symptoms and signs to look for when diagnosing a plant disorder, integration of information, hypothesis formulation and hypothesis testing. | |
| Week 8 | Field trip to diagnosis vegetable crop diseases | From Ref # 1 , From Ref # 3 |
| Week 9 | Laboratory work to diagnosis diseases of vegetable crops | From Ref # 1 , From Ref # 3 |
| Week 10 | Field trip to diagnose diseases of Field crops | From Ref # 1 |
| Week 11 | Laboratory work to diagnosis diseases of field crops | From Ref # 1 , From Ref # 3 |
| Week 12 | Field trip to diagnose diseases of Stonefruit trees and grapes | From Ref # 2 |
| Week 13 | Laboratory work to diagnosis tree diseases | From Ref # 2 , From Ref # 3 |
| Week 14 | Field trip to diagnose diseases of olives, citrus and datepalms | |

Relationship to Program Student Outcomes (Out of 100%)

| PLO1 | PLO2 | PLO3 | PLO4 | PLO5 | PLO6 | PLO7 |
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