

Course Title	Principles of Pest and Plant Disease Management				
Course Code	ABF 280				
Course Type	Theory				
Level	Undergraduate				
Year / Semester	Fall Semester/3rd Semester/2nd year				
Teacher’s Name	Dr. Menelaos Stavrinides (33.3%)/ Dr. Loukas Kanetis (33.3%)/ Dr. Iakovos Pantelides (33.3%)				
ECTS	5	Lectures/week	2 x 1.5 hours	Laboratories/week	-
Course Purpose and Objectives	The course aims at providing to students a basic understanding of the principles governing pest and plant disease management. More specifically, the course introduces students to pest and plant disease biology and familiarizes them with the main causes of pest and disease outbreaks. In addition, the course illustrates to students key methods and techniques for pest and disease management.				
Learning Outcomes	Upon the successful completion of the course students are expected to be able to: • Present the importance of crop protection to agricultural production • Describe the morphology and the biology of key pests and diseases, and categorize pests and diseases into taxonomic groups • Report the causes of yield loss by pests and diseases and differentiate between direct and indirect losses • Analyze basic aspects of conventional, integrated and organic crop protection • Discuss the impacts of different pest and disease management methods to humans and the environment				
Prerequisites	NA		Required	NA	
Course Content	The course covers the following topics: • Pest and disease management: A historical perspective • Types of pests and associated damage • Basic principles of insect and mite anatomy, morphology and physiology • Biology, ecology and behavior of insect and mites • Causes of pest outbreaks • Chemical, biological and integrated control of pests • The concept of plant disease and its effects on crop production • Biotic and abiotic factors as causal agent of plant diseases • Aspects of symptoms, signs and etiology of plant diseases • Basic concepts in phytopathological mycology				

	• Examples of plant diseases with high economic impact caused by fungi and omycetes • Basic knowledge of phytopathological bacteriology • Examples of plant diseases with high economic impact caused by bacteria • Basic knowledge of plant virology • Plant diseases of high economic impact caused by plant viruses • Principles and methods of plant disease management • Integrated plant disease management
Teaching Methodology	• Lectures in classroom • Computer based presentations (PowerPoint, videos) and through the use of the online learning platfrom "Moodle" • Discussion and answering of questions during lectures • Individual meetings for guidance and problem solving • Independent study using the provided literature
Bibliography	1. Teacher's Course Presentations (in Greek). 2. Φυτοπαθολογία, Ελευθέριος Τζάμος, Εκδόσεις Σταμούλης, 2η Έκδοση 2007, ISBN: 978-960-351-725-2 (in Greek). 3. Φυτοπαθολογία, Επιμέλεια Νικόλαος Κατής, Utopia Publishing 2016, ISBN: 978-618-81298-8-7 (in Greek). 4. Plant Pathology, George N. Agrios, 5th Edition, SB 731A35 2005, ISBN: 0-12-044565-4. 5. Αρχές και μέθοδοι καταπολέμησης των ασθενειών των φυτών, 1992, Β.Ν. Ζιώγας, Σ.Γ. Γεωργόπουλος, ISBN: 9789609320474 (in Greek). 6. Navrozides, E.I., Andreadis, SS. 2021. Agricultural Entomology. Copy City. ISBN 9789609551021 (In Greek) 7. Koveos, D.S. 2010. Acarology. AgroTypos. ISBN 9789607667397 (In Greek) 8. Tzanakakis, M.E. 1995. Entomology. University Studio Press. ISBN 960-12-0466-0 (In Greek) 9. Additional bibliography is provided during lectures.
Assessment	Class assignment: 10% Mid-term Exam: 30% Final Examination: 60% Tests include close-ended questions (multiple choice, fill-in, matching, etc.), short answer and full essay questions.