

Phytopathology

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| Obligatory module or Selective module | Phytopathology | PNH 2103 |
| Semester | III | |
| Module level | Undergraduate | |
| Module Coordinator | Ani Widiastuti, S.P., M.P., Ph.D. | |
| Lecturer(s) | Dr. Ir. Sedyo Hartono, SU Ani Widiastuti, S.P., M.P., Ph.D Dr. Tri Joko, SP, M.Sc. Dr. Ir. Sri Sulandari, SU | |
| Type of Module | 1 hour and 40 minutes lecture Practical | |
| Status | C (compulsory courses) | |
| Exam | Written | |
| Number of participants | 64 | |
| Credit Points: | 2/1 (5.02 ECTS) | |
| Description: | This course discusses the history and importance of plant diseases, the concept of plant diseases and their development, types of disease-causing (plant pathogens), plant interactions with plant pathogens at the cellular, tissue, and plant population level. The effects of environmental factors on plant diseases are discussed in order to understand their development. Diagnosis, ways of managing plant diseases as well as examples of plant diseases that have important significance in Indonesia, and careers in phytopathology. | |
| Academic goal (competency): | After following and finishing this course, students are expected to understand the importance of plant diseases in agricultural production, be able to recognize the symptoms caused, understand the process of disease development, design general management methods and understand careers in phytopathology | |
| Course outcomes: | | |
| CO 1 : Students are able to understand the roles of plant diseases on human life, especially for the crop diseases. | | |
| CO 2 : Students are able to distinguish between healthy - diseased plant; and how to identify plant diseases | | |
| CO 3 : Students are able to understand procces and developepment of plant disease and the interaction between the component of the disease triangle. | | |
| CO 4 : Students are able to understand the strategies of plant disease management and their risks. | | |

Contents:

Important of Plant Diseases, Concepts of Plant Disease, Plant Pathogens, Interaction of Plant and Pathogen on the Cell, Tissue and Population of Plant, Effects of Environment on Plant Disease Development, and Examples of important of Plant Diseases.

Which previous course required? Plant Protection

Literature:

1. Agrios, G. 2005. Plant Pathology 5th. Academic Press. Cambridge. 952p.
2. Haryono, S. 2006. Pengantar Ilmu Penyakit Tumbuhan. Gadjah Mada University Press. Yogyakarta. 754h.

Material provided: slide presentation

Requirements for exam:Laboratory works and assignments fulfillment

Teaching method(s):

Presentation, Discussion, Assignments

Workload (hrs).

1. Theoretical of course: 14 time in class
2. Lab work: pres test, laboratory work, report, post test and field work.
3. Home studies: assignments