

Plant Clinic

Obligatory module or Selective module	Plant Clinic	PNH 4126
Semester	VI	
Module level	Undergraduate	
Module Coordinator	Dr. Ir. Arman Wijonarko, M.Sc.	
Lecturer(s)	Dr. Ir. Arman Wijonarko, M.Sc. Prof. Dr. Ir. Achmadi Priyatmojo, M.Sc.	
Type of Module	50 minutes lecture Practical	
Status	E (elective courses)	
Exam	Written	
Number of participants	64	
Credit Points:	1/1 (3.51 ECTS)	
Description	Plant clinic course is held to achieve the main competencies, namely skills and abilities to identify pests and plant pathogens, diagnose plant damage and diseases, and provide recommendations for controlling pests and plant diseases. Students are also equipped with skills to handle plant samples, make durable preparations, and wet herbariums.	
Academic goal (competency)	Achieve competency in plant clinic course by knowing the basics of managing plant pests and diseases. Provide supplies to students to identify and diagnose plant pests (OPT) and provide recommendations for their managements.	
Learning outcomes:		
<ol style="list-style-type: none"> 1. Students are able to handling samples of plants that are attacked by pests and pathogens 2. Students are able to identifying pests and diagnosing plant diseases. 3. Students are able to recommending pest and plant disease control. 4. Students are able to communicating the results obtained clearly and responsibly. 5. Students are able to making a well written report. 		
Contents:		
<ol style="list-style-type: none"> 1. Assistance 2. Introduction of tools and their applications 3. Management of pest and sick plant samples 4. Making dry-preserved preparations 5. Making a wet herbarium 6. Pest identification and diagnosis of plant diseases 		
Which previous course required? Phytopathology, Agricultural Zoology, Agricultural Nematology, Pest Vertebrate, Agricultural Mycology, Plant Virology, Plant Pathogenic Prokaryote		

Literature:

Shurtleff, M. C., & C. W. Averre III. 1997. The Plant disease Clinic and Field Diagnosis of Abiotic Disease. American Phytopathology Society, St. Paul.

Haryono Semangun. 1998. *Penyakit-Penyakit Penting* pada Tanaman Hortikultura. Gadjah Mada University Press, Yogyakarta.

Semangun, H. 1996. *Penyakit-Penyakit Tanaman Pangan*. Gadjah Mada University Press. Yogyakarta.

Semangun, H. 2000. *Penyakit-Penyakit Tanaman Perkebunan*. Gadjah Mada University Press. Yogyakarta.

Priyatmojo, A., Escopalao, V.E., Tangonan, N.G., Pascual, C.B., Suga, H., Kageyama, K., & Hyakumachi, M. 2001. Characterization of a new subgroup of *Rhizoctonia solani* anastomosis group 1 (AG 1-ID), causal agent of a necrotic leaf spot on coffee. *Phytopathology* 91: 1054-1061.

Priyatmojo, A., Yamauchi, R., Naito, S., Kageyama, K., & Hyakumachi, M. 2002. Comparison of whole-cell fatty acid compositions of isolates of *Rhizoctonia solani* AG 2 from tobacco (Nt-isolates) and tulip (AG 2-t), AG 2-1 and AG-BI. *Journal of Phytopathology* 150: 283-288.

Priyatmojo, A., Yotani, Y., Hattori, K., Kageyama, K., & Hyakumachi, M. 2001. Characterization of *Rhizoctonia* spp. causing root and stem rot of miniature rose. *Plant Disease* 85: 1200-1205.

Materials provided: slide of presentation

Requirements for exam: 75% Attendance

Teaching method(s)	Lectures, Discussion, Assignments
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Workload (hrs).

Theoretical of course: 14 times

Lab work: 6 times

Home studies: related to the chapter discussed in the class