

### Important Disease of Agricultural Plants

<b>Obligatory module or Selective module</b>	<b>Important Disease of Agricultural Plants</b>	<b>PNH 4234</b>
<b>Semester</b>	Odd Semester	
<b>Module level</b>	Undergraduate	
<b>Module Coordinator</b>	Prof. Dr. Ir. Siti Subandiyah, M.Agr.Sc	
<b>Lecturer(s)</b>	Prof. Dr. Ir. Siti Subandiyah, M.Agr.Sc Prof. Dr. Ir. Achmadi Priyatmojo, M.Sc	
<b>Type of Module</b>	1 hour 40 minutes lecture Laboratory work	
<b>Status</b>	E (elective courses)	
<b>Exam</b>	Written	
<b>Number of participants</b>		
<b>Credit Points:</b>	2/1 (5.02 ECTS)	
<b>Description</b>	Discuss the definition and meaning of important diseases of agricultural crops. Introduction of important diseases in food crops, horticultural crops, and estate crops, including the symptoms and ecology of the disease, pathogens that cause, survival and spread. Management of important diseases of agricultural crops in regional scale. Emerging Infectious (plant) Diseases (EIDs) globally related to the evolution of pathogens, mobility of the world's population and climate change.	
<b>Academic goal (competency)</b>	Students are able to understand important diseases of agricultural crops.	
<b>Learning outcomes:</b>		
<ul style="list-style-type: none"> <li>- Students are able to understand important diseases of food crops</li> <li>- Students are able to understand important diseases of agricultural crops</li> <li>- Students are able to understand important diseases of estate crops</li> </ul>		
<b>Contents:</b>		
<ol style="list-style-type: none"> <li>1. Introduction, economic losses due to plant diseases</li> <li>2. Important diseases of food crops (staple food and horticulture) due to prokaryotes</li> <li>3. Important diseases of food crops (staple food and horticulture) due to viruses</li> <li>4. Important diseases of plantation crops due to prokaryotes and viruses</li> </ol>		

5. Management of important plant diseases due to prokaryotes and viruses
6. EIDs due to prokaryotes and viruses
7. Student presentations
8. Important diseases of food crops due to fungi
9. Important diseases of horticultural plants due to fungi
10. Important diseases of plantations due to fungi
11. Survival of pathogens and epidemiology of important plant diseases due to fungi
12. EIDs of plant diseases due to fungi
13. Management of important plant diseases due to fungi
14. Student presentations

**Which previous course required?** Phytopathology

**Literature:**

1. Semangun, H. Penyakit-Penyakit Tanaman Pangan di Indonesia. Gadjah Mada University Press. Yogyakarta.
2. Semangun, H. Penyakit-Penyakit Tanaman Hortikultura di Indonesia. Gadjah Mada University Press. Yogyakarta.
3. Semangun, H. Penyakit-Penyakit Tanaman Perkebunan di Indonesia. Gadjah Mada University Press. Yogyakarta.
4. Jurnal Perlindungan Tanaman Indonesia
5. Jurnal Fitopatologi Indonesia
6. Plant Disease and Plant Pathology Journals
7. Compendium of plant diseases

**Materials provided:** Slide of presentation

**Requirements for exam:** 75% Attendance

**Teaching method(s)**

Lectures, Discussion, Assignments

Workload (hrs).

Theoretical of course: 14 times

Lab work: 7 times

Home studies: