



Universitas Gadjah Mada
 Faculty of Agriculture
 Plant Protection Department

Course Syllabus

Course Code	Course Name	Credits	Semester	Course Status	Requirement
PNH20191101	Plant Protection	3	4	Compulsory	-
Learning Outcome	1	Understanding principles and best practices of crop protection, decision making process based on the ecosystem analysis, and selection of the technology that can be applied in the field.			
	2	Understanding the definition and historical perspectives of plant protection and classification of harmful organisms			
	3	Understanding the methods to recognize the type of pests and plant diseases, methods of observations in the field, and ecosystem analysis as the base for selecting technology			
	4	Understanding the principle of Integrated Pest Management, and its implementation in different crops			
Course Description	This lecture provides students with understanding the importance of crop protection in agricultural production systems, pests development- losses-trading, principles of Integrated Pest Management (IPM), pests control measures, and examples of current pest problems in different crops.				
Course Content	<ol style="list-style-type: none"> 1. Introduction. 2. Pests' problem in crop protection. 3. Plant diseases problem in crop protection. 4. Pest harvest management in crop protection. 5. Classification of pests and impact of environmental factors on pests' development. 6. Pathogens, characteristics, and factors influence their development. 7. Integrated pest management: Historical perspective and changing in the paradigms. 8. The role of crop protection in international trading. 9. Judicious use of pesticides in agriculture. 10. Introduction of biotechnology in crop protection. 11. Impact of agricultural production system on pests and disease problems and their management. 12. Crop protection in food crops. 				

	<p>13. Crop protection in horticultural crops.</p> <p>14. Crop protection in estate crops.</p>
Reference	<p><i>Agrios, G.N., 2005. Plant Pathology (5th edition). Elsevier Academic Press, Burlington.</i></p> <p><i>Abrol, D.P., 2014. Integrated Pest Management. Current concepts and ecological perspective. Elsevier-Academic Press, Amsterdam.</i></p> <p><i>Metcalf, R.L. & W.H. Luckman. 1975. Introduction of insect pest management. A Wiley-Interscience Publication. New York.</i></p>
Lecturer	<ol style="list-style-type: none"> 1. Dr. Ir. Witjaksono, M.Sc. 2. Dr. Suryanti, S.P., M.P. 3. Dr. Ir. Sedyo Hartono, M.P. 4. Dr. Tri Harjaka, S.P., M.P. 5. Dr. Ir. Arman Wijanarko M.Sc. 6. Dr. Ir. Sri Sulandari, S.U. 7. Prof. Dr. Ir. Triwidodo Arwiyanto, M.Sc. 8. Dr. Ir. Nugroho Susetya P., M.Si. 9. Dr. Tri Joko S.P., M.Sc. 10. Prof. Dr. Ir. Siti Subandiyah, M.Agr.Sc. 11. Alan Soffan, S.P., M.Sc., Ph.D. 12. Prof. Dr. Ir. Y. Andi Trisyono, M.Sc. (English class) 13. Ani Widiastuti S.P., M.P., Ph.D. 14. Dr. Suryanti S.P., M.P.