Pest Vertebrate		
Obligatory	Pest Vertebrate	PNH
module or		2107
Selective		
module		
Comostor		
Semester Modulo Loval		
Module Level	Drof Dr. Ir. EX. Wooimon, SU	
Coordinator	Piol. Dr. II. PA. Wagiman, SU	
	Prof Dr. Ir. FX. Wagiman, SU	
Lecturer(3)	Dr. Tri Hariaka, SP, MP	
Type of Module	50 minutes lecture	
	Practical	
Status:	C (Compulsory course)	
Exam	Written and Presentation	
Number of		
number of	04	
Credit Points	2/1 (5.02 ECTS)	
Description:	Discussion of the importance of pest vertebrates. Classific	cation of
Description.	vertebrate pests Characterize morphology biology and ec	sology of
	various types of vertebrate pests. Strategy and control technology	odv
Academic goal	1. Students are able to explain the damage and losses caused	by
(competency):	vertebrate pests in various types of crop commodities and pe	ost-
	2 Students are able to explain the merphological and bioscolog	nicol
	features of vertebrate pests and the symptoms of attacks on	various
	types of plant commodities and post-baryest products	vanous
	3 Students are able to explain the ecological and economic-ba	ased
	pest management and vertebrate management system: inter	arated
	pest management (IPM), principles, control technology.	9
Course outcome	S:	
CO1 = Students are able to understand and explain the impact of economic losses due to		
pest attacks by vertebrate pests		
CO2 = Students are able to know, be able to understand, and explain morphological,		
bioecologic	cal features, signs and symptoms of attacks from types of pest	
vertebrates		
CO3 = Students a	re able to understand the ecological and economic managemen	t system
for vertebrate pest management		
CO4 = Students are able to develop abilities, competencies, and creativity in efforts to		
manage and control pest vertebrates based on integrated pest management		
systems (IPIVI) to prevent and / or minimize the impact of economic and ecological		
losses caused		

# Contents:

## Lecture:

- 1. Introduction; the problems and economic impacts of pest vertebrates
- 2. The rats; morphology, bioecology, control measures
- 3. The squirrel; morphology, bioecology, control measures
- 4. The hedgehog; morphology, bioecology, control measures
- 5. The wild boar; morphology, bioecology, control measures
- 6. The macaca; morphology, bioecology, control measures
- 7. The bat; morphology, bioecology, control measures
- 8. The bird; morphology, bioecology, control measures
- 9. The ferret; morphology, bioecology, control measures
- 10. The elephant; morphology, bioecology, control measures
- 11. Ecologically and economically based management of pest vertebrates; IPM **Practicum**
- 1. Introducing pest vertebrates in the laboratory
- 2. Introducing pest vertebrates in the zoo
- 3. Study on feeding behavior and losses caused by the pest vertebrates
- 4. Fieldtrip to rice fields and plantations

# Which previous course required? Plant Protection

## Literature:

Priyambodo, S. 2003. Buku Praktikum Vertebrata Hama. Lab. Vertebrata Hama, Jurusan HPT, Fakultas Pertanian IPB.

Priyambodo, S. 2005. Bioekologi dan Pengelolaan Tikus. Pusat Kajian Hama Terpadu, Departemen Proteksi Tanaman. Fakultas Pertanian IPB.

- Sianturi, J., H. T. Widarto, M. Sinaga, T. Saragih, M. Thahir, N. I. Kuntarti. 2006. Pengendalian Hama Terpadu Bajing. Balai Pengembangan Proteksi Tanaman Perkebunan Sumatera Utara. Medan.
- Singleton, G., L. Hinds, H. Leirs & Z. Zhang (eds.). 1999. Ecologically-Based Management of Rodent Pests. ACIAR, Canberra.
- Singleton, G. R., L. A. Hinds, C. J. Crebs & D. M. Spratt (eds.). 2003. Rats, Mice and People: Rodent Biology and Management. ACIAR, Canberra.

Material provided: Reading materials, Speciments

Requirements for exam:75% attendance set by the Faculty of Agriculture

Teaching	Student Center Learning, Classes, Special assignment related to the
method(s)	subject matters

## Workload (hrs).

- 1. Theoretical of course: 14 x 50 minutes
- 2. Lab work: 7 x 120 minutes
- 3. Home studies: 14 x 2 x 100 minutes