Agricultural Entomology

Obligatory	Agricultural Entomology	PNH	
module or		2105	
Selective			
module			
Semester	III		
Module level	Undergraduate		
Module	Nugroho Susetya Putra		
Coordinator			
Lecturer(s)	Nugroho Susetya Putra		
	Suputa		
Type of Module	110 minutes lecture		
	Practical		
Status	C (Compulsory courses)		
Exam	Written		
Number of	64		
participants	04		
Credit Points:	2/1 (5.02 ECTS)		
Description:	Insects are one of the groups of animals that are important components		
	of the ecosystem, through their roles as herbivores, ca	rnivores,	
	pollinators, decomposers, other animal feeds, and other importa		
	Therefore, the discussion in this lecture discusses aspects of	•	
	(taxonomy, anatomy, physiology, behavior), taxonomy,		
	socioecology, and insect economics. In addition, this lect		
	discusses the effects (positive and negative) of insects on hun	nans and	
_	nature.		
Academic goal	a. Students can understand the role and function of insection	ts in	
(competency):	nature, and their economic value for humans.		
	b. Students understand the aspects of morphology, anato	my,	
	physiology and behavior of insects.		
	c. Students can understand insect classification technique	es	
	(classification and taxonomy)		
	d. Students can understand the ecological and economic	-	
	of insects for the benefit of humans and the environmen		
	e. Students can understand strategies for managing and u	utilizing	
Course outcomes	insects for the benefit of humans and the environment.	uuiizing	

Course outcomes:

CO1= Students are able to explain the role and function of insects in nature, as well as their economic value for human interests.

CO2= Students are able to explain the basic biological aspects of insects, including morphology, anatomy, physiology, behavior, and ecology.

CO3 = Students are able to explain insect classification techniques based on morphology, anatomy, function / role, and economic value of insects.

Contents:

- Introduction: the role and function of insects in nature.
- Morphology of the body.
- Anatomy of the body
- Physiology of insects.
- Growth, development, and reproduction of insects.
- Insect taxonomy and classification
- Behavior of insects and interactions with their environment.
- Effect of abiotic factors on insects
- Insects: feed / host, natural enemies, and competitors.

Which previous course required? Plant Protection

Literature:

- a. Gullan, P.J. & P.S. Cranston. 2005. The insects. An outline of entomology. Blackwell Publishing, Massachussets.
- b. Speight, M.R., M.D. Hunter, & A.D. Watt. 2008. Ecology of insects. Concepts and applications. Wiley-Blackwell, Chicester.
- c. Jurnal dan sumber-sumber lain yang terkait.

Materials provided: PPT dan hand out

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

Teaching	Classes
method(s)	Special assignment related to the subject matters

Workload (hrs).

- 1. Theoretical of course: 14 times
- 2. Lab work: 7 times
- 3. Home studies: related to the chapter discussed in the class