

Module/Course Description

INTRDUCTION TO AGRICULTURE (IPB 107)

A. Module Identity		
1.	Name	Introduction to Agriculture
2.	Code	IPB 107
3.	Credit	2 (2-0)
4.	Semester	1
5.	Coordinator	Utomo Kartosuwondo
6.	Lecturers	Sudirman Yahya, Hidayat Pawitan, Eduard Halomoan Siregar, Didy Sopandie, Endang Sri Ratna, Lala M. Kolopaking, Purwono, Burhanuddin Masyud, Ma'mun Sarma, Muhammad Zairin Junior, Ervival Amzu, Hardinsyah, Lisdar A. Manaf, Hadi Susilo Arifin, Ligaya I.T.A. Tumbelaka, Kukuh Murtalaksono, Cecep Kusmana, Slamet Budijanto, Hartrisari H, I Komang Gede Wiryawan, Dewi Apri Astuti, Trikoesoemaningtyas, Suria Darma Tarigan, Koekoeh Santoso, Ahmad Sulaeman, Surachmai Setiyaningsih, Syaeful Anwar, Evy Damayanthi, Budi Setiawan, Imam Wahyudi, Sulistono, Muhammad Fedi Alfiadi Sondita, Wawan Hermawan, Tania Tune, Sugeng Santoso, Erizal, Ibnul Qayim, Bambang Dwi Dasanto, Iskandar Zulkarnaen Siregar, Noor Farikhah Haneda, M. Faiz Syuaib, Feri Kusnandar, Eko Sri Wiyono, Edi Santoso, Desta Wirnas, Lina Karlinasari, Epi Taufik, Ania P. Widhaiani, Kaswanto, I Putu Santikayasa, Muh Taufik, Ismail Pulungan
7.	Language	Indonesian
8.	Program(s) in which the course is offered	Internal department: - Other departments: <i>Common First Year Program (Education of general competency) by University</i>
9.	Type of teaching	a. Traditional classroom: 100 % b. Blended system: Traditional classroom....%, Online....% c. e-Learning system:% d. Others:%

B. Workload of course components (total contact hours and credits per semester)								
Credit		Contact Hours				Self-Study	Other	Total
SKS *)	ECTS	Lecture	Exercise	Laboratory	Practice			
2		28				56		84

*) Semester credit unit according to the Indonesian higher educational system

1 credit unit lecture = 2 hours/ week for lecture and 2 hours/ week for self-study within 14 weeks/ semester

1 credit unit class exercise or laboratory or field practice = 3 hours/week within 12-14 weeks/semester

**) 1 hour for lecture= 50 minutes; 1 hour for class exercise or laboratory or field practice = 60 minutes

C. Module Objective (Learning Outcomes)
Students having the ability to comprehend agriculture in a broad sense and the supporting sciences

D. Detailed Course Learning Outcomes (LO) in Relation to Learning Domains, Teaching Strategies, and Assignment Methods			
No.	LO in Learning Domains	Teaching Strategies	Assessment Methods
a.	Knowledge		
1.	Students are able to explain the scientist's characteristics	Presentation of teaching materials. Debriefing sessions	Midterm Exam
2.	Students are able to outline Science and Agriculture, and the Environment	Presentation of teaching materials. Debriefing sessions	Midterm Exam
3.	Students are able to explain the history of agriculture and agricultural business.	Presentation of teaching materials. Debriefing sessions	Midterm Exam
4.	Students are able to distinguish weather and climate, and the elements	Presentation of teaching materials. Debriefing sessions	Midterm Exam
5.	Students are able to explain the Indonesian climate and the elements	Presentation of teaching materials. Debriefing sessions	Midterm Exam
6.	Students are able to explain: the photosynthesis process and ecosystem stability concept in the flow of energy and matter; energy and material flow in the food web that occurs in terrestrial and	Presentation of teaching materials. Debriefing sessions	Midterm Exam

	aquatic ecosystems, as well as the consequences of environmental or ecosystems degradation to energy flow on the food web; the role of agriculture in human life		
7.	Students are able to outline the relationship between agriculture to food security, and nutrition and human health problems	Presentation of teaching materials. Debriefing sessions	Midterm Exam
8.	Students are able to explain the various post-harvest technologies to increase the value-added of agricultural products.	Presentation of teaching materials. Debriefing sessions	Final Exam
9.	Students are able to distinguish food agriculture and non-food agriculture.	Presentation of teaching materials. Debriefing sessions	Final Exam
10.	Students are able to distinguish the agribusiness and agro-industries	Presentation of teaching materials. Debriefing sessions	Final Exam
11.	Students are able to explain the intricacies of biotechnology	Presentation of teaching materials. Debriefing sessions	Final Exam
12.	Students are able to explain urban agriculture and landless cultivation, i.e. hydroponics, aeroponics, etc.	Presentation of teaching materials. Debriefing sessions	Final Exam
13.	Students are able to outline integrated agriculture, sustainable agriculture, and renewable energy.	Presentation of teaching materials. Debriefing sessions	Final Exam
14.	Students are able to explain the future of agriculture and agricultural excellence in 2030	Presentation of teaching materials. Debriefing sessions	Final Exam

E. Module Content		
List of Topic	Number of Weeks	Contact Hours
Scientist and Knowledge	1	2
Science - Agriculture and Environment	1	2
History of Agriculture and Agricultural Business	1	2
Weather and Climate	1	2
Indonesia's Climate	1	2
Energy, and Life Cycle Nutrient	1	2
Food and Nutrition	1	2
Post-Harvest Technology Development & Value Added	1	2
Food and Non-Food Agriculture	1	2
Agribusiness and Agro-industry	1	2
Biotechnology	1	2
Urban Agriculture and Landless Cultivation	1	2
Integrated-Sustainable Agriculture and Renewable Energy	1	2
Building the Future of Agriculture: "Achieving Agricultural Excellence in 2030"	1	2

F. Course Assessments			
No.	Assessment Type *)	Schedule (Week Due)	Proportion of the Final Mark
1.	Mid-term examination	8 th week	50 %
2.	Final examination	16 th week	50 %

*) Example: mid-term examination, final examination, quiz, homework, project, etc.

G. Media Employed
<ul style="list-style-type: none"> - Classroom - Laptop - LCD - Microphone (loudspeaker) - Whiteboard

H. Learning Resources
<p>h1. Textbooks:</p> <ol style="list-style-type: none"> 1. Nasoetion AH. 2002. <i>Pengantar ke Ilmu-Ilmu Pertanian</i>. Jakarta (ID): Litera Antar Nusa. 2. Tim Pengajar PIP. 2006. Kumpulan Makalah Pengantar ke Ilmu-Ilmu Pertanian.