

**MODULE HANDBOOK
AGRIBUSINESS
CURRICULUM 2020**



Universitas Islam Negeri
SYARIF HIDAYATULLAH JAKARTA

**AGRIBUSINESS STUDY PROGRAM
FACULTY OF SCIENCE AND
TECHNOLOGY
SYARIF HIDAYATULLAH STATE ISLAMIC
UNIVERSITY JAKARTA
2023**

No	Code	Course Name (module)	Credit	Semester	Learning Outcome (LO)								
					S1	S2	P1	P2	P3	KK1	KK2	KU 1	KU 2
1	NAS6112201	Pancasila and Civic Education	3 (3-0)	1	√		√						
2	UIN6032201	Islamic Studies	4 (4-0)	1	√		√						
3	UIN6033205	Practice of Qiroah and Worship	2 (0-2)	1	√		√						
4	UIN6032202	Islam and Science	3 (3-0)	1	√		√						
5	FEB6083201	Introduction to Economics	3 (3-0)	1	√		√					√	
6	FST6092002	Introduction to Agribusiness	2 (2-0)	1	√		√					√	
7	FEB6081213	Fundamental of Management	2 (2-0)	1	√		√					√	
8	FST6092023	Introduction to Agricultural Science	2 (2-0)	1	√		√					√	
			21										
1	UIN6014203	English	3 (2-1)	2	√		√					√	
2	NAS6013203	Indonesian Language	3 (2-1)	2	√		√					√	
3	FEB6082201	Introduction to Accounting	3 (2-1)	2	√		√					√	
4	FST6092024	Plant Science	2 (2-0)	2		√	√						
5	FST6092025	Practice of Plant Science	1 (0-1)	2							√	√	
6	FST6092035	Technopreneurship	2 (2-0)	2	√	√							
7	FST6091101	Introduction to Information and Communication Technologies	2 (2-0)	2	√		√					√	
8	FST6092004	Agricultural Sociology	3 (2-1)	2	√		√					√	
9	FST6092022	Introduction to Agro-industrial Material	2 (2-0)	2	√		√		√				
10	FST6094106	Elementary Statistics	3 (2-1)	2	√		√					√	
			24										
1	FEB6083204	Economics and Business Mathematics	3 (2-1)	3	√			√				√	
2	FST6092006	Agricultural Economics	3 (2-1)	3				√				√	

No	Code	Course Name (module)	Credit	Semester	Learning Outcome (LO)								
					S1	S2	P1	P2	P3	KK1	KK2	KU 1	KU 2
3	FST6092007	Agricultural Communication	3 (2-1)	3		√	√					√	
4	FST6092124	Fundamental of Agronomy	2 (2-0)	3		√	√						
5	FST6092125	Practice of Fundamental of Agronomy	1 (0-1)	3							√	√	
6	FST6092026	Seed Production	2 (2-0)	3		√	√						
7	FEB6081332	Production Management	3 (2-1)	3		√	√		√	√			
8	FST6092011	Agricultural Trading System	3 (2-1)	3			√	√				√	
9	FST6092014	Agribusiness Management	3 (2-1)	3		√	√		√	√			
			23										
1	FEB6085008	Sharia Financing and Investment	3 (2-1)	4	√		√			√		√	
2	FST6092027	Plant Protection	2 (2-0)	4			√		√				
3	FST6092127	Practice of Plant Protection	1 (0-1)	4							√		
4	FEB6081333	Value Chain Management	3 (2-1)	4		√	√		√	√			√
5	FST6092009	Farm Management	3 (2-1)	4				√				√	
6	FEB6081336	Quality Control Management	3 (2-1)	4		√	√		√	√			√
7	FST6095233	Industrial Microbiology	2 (2-0)	4			√		√	√			
8	FST6096330	Basic Chemistry	2 (2-0)	4			√		√				
9	FST6092031	Agroclimatology	2 (2-0)	4		√	√		√				
10	FST6092131	Practice of Agroclimatology	1 (0-1)	4						√			√
			22										
1	FST6092010	Agricultural Development	3 (2-1)	5				√					√
2	FST6092032	Agro-product Processing Technologies	2 (2-0)	5				√	√	√		√	
3	FST6092132	Practice of Agro-product Processing Technologies	1 (0-1)	5				√	√	√			

No	Code	Course Name (module)	Credit	Semester	Learning Outcome (LO)								
					S1	S2	P1	P2	P3	KK1	KK2	KU 1	KU 2
4	FST6098261	Innovation Engineering	2 (2-0)	5				√	√		√	√	
5	FEB6081104	Marketing Management	3 (2-1)	5		√		√	√				√
6	FST6092037	Scientific Writing Technique	1 (0-1)	5				√					
7	UIN6000209	Research Methodology	3 (2-1)	5				√				√	
8	FEB6081106	Strategic Management	3 (2-1)	5		√	√	√		√		√	√
9	FEB6081306	Risk Management	3 (2-1)	5		√		√	√	√	√	√	
			21										
1	FEB6081202	Entrepreneurship	3 (2-1)	6				√	√		√		√
2	FST6092018	Agribusiness Information System	3 (2-1)	6			√			√	√	√	
3	UIN6021204	Arabic	3 (2-1)	6	√		√					√	
4	FST6092020	International Trade	3 (2-1)	6			√	√	√	√		√	
5a	FST6092038	Halal Food Management *	3 (2-1)	6	√				√	√			√
5b	FST6092040	Halal Food Economics**	3 (2-1)	6	√				√	√			√
5c	FST6092044	Halal Agrotourism ***	3 (2-1)	6	√				√	√	√		√
5d	FST6092042	Halal Food****	2 (2-0)	6	√				√	√			√
5d	FST6092043	Practice of Halal Food****	1 (0-1)	6						√		√	
7	FEB6081103	Human Resource management	3 (2-1)	6		√		√		√			√
8	FST6092034	Urban Farming	2 (2-0)	6			√				√		
9	FST6092036	Practice of Urban Farming	1 (0-1)	6								√	
			21										
1	UIN6000207	Field Practices	4 (0-4)	7		√				√		√	
2	UIN6000206	Community Service Program	4 (0-4)	7		√				√		√	

No	Code	Course Name (module)	Credit	Semester	Learning Outcome (LO)								
					S1	S2	P1	P2	P3	KK1	KK2	KU 1	KU 2
			8										
1	UIN6000313	Seminar	1 (0-1)	8						√		√	
2	UIN6000312	Undergraduate Thesis	6 (0-6)	8				√		√		√	
			7										
			147										

Learning outcomes (LOs) of Agribusiness BSc Degree programme :

1. Ability to apply religious, nationalistic, and ethical values (S1).
2. Possession of professional leadership (S2).
3. Knowledge of agribusiness management, agricultural socio-economics, and related subjects (P1).
4. Capacity to design research in the agribusiness sector (P2).
5. Familiarity with standards of agribusiness and food products (P3).
6. Ability to identify and analyse problems, potentials, and prospects, as well as recommend alternative decision-making in agribusiness development using both quantitative and qualitative methods (KK1).
7. Proficiency in designing innovative agribusiness ventures (KK2).
8. Capability to identify, process, analyse, and utilise agribusiness data (KU1).
9. Demonstration of intellectual independence in planning and solving agribusiness problems (KU2)

SEMESTER 1

Pancasila and Civic Education

■ <i>Module Name</i>	Pancasila and Civic Education
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	NAS6112201
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Diana Mutia Habibaty, M.H. (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	General Basic Courses
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussions. Students are divided into five groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 h : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups • 100% Exam
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Formative 40%
■ <i>Intended learning outcomes</i>	

Pancasila and Civic Education is one of the compulsory subjects of the University. In this course, Mahasiswa is expected to play a role as a citizen who is proud and loves the homeland and supports world peace, respects cultural diversity, upholds law enforcement and has the spirit to prioritize the interests of the nation and the wider community. Furthermore, by attending this lecture, it is also hoped that students will be able to improve their personality as a whole Indonesian person. In addition, by attending this lecture can also increase student competitiveness, discipline and active dedication in building a peaceful life based on the Pancasila values system.

■ *Module content*

Lecture (Class Work)

1. The urgency and benefits of studying Pancasila, the history of the formulation of Pancasila values, and Pancasila in Islam
2. The philosophy of Pancasila and its application
3. Types of Ideology and Pancasila as Ideology
4. The Constitution and the values contained in the 1945 Constitution
5. The concept of Bhinneka Tunggal Ika and its implementation
6. History, concept, and challenges of the Unitary State of the Republic of Indonesia
7. The concept of national identity
8. Basic concepts of human rights, human rights development, human rights violations, human rights law enforcement instruments in Indonesia, and the concept of human rights in Islam
9. Nations and states, rights and duties of citizens, and issues of citizenship status
10. Democracy in Indonesia and Islam in view of Democracy
11. The theory of radicalism, the difference with extremism, its characteristics, causes, prevention, control, and understanding of moderate Islam as an antidote to religious radicalism
12. Geopolitics and archipelago insights
13. Geostrategy Indonesia
14. The problem of corruption in Indonesia

■ *Recommended literatures*

Main:

1. Mufidah, Pancasila and Civic Education Module, Jakarta, Haruka Edu, 2020
2. Directorate General of Learning and Student Affairs of the Ministry of Research, Technology and Education of the Republic of Indonesia, Pancasila Education for Higher Education, 2016
3. Directorate General of Learning and Student Affairs of the Ministry of Research, Technology and Education of the Republic of Indonesia, Textbook of General Compulsory Courses in Civic Education, 2016.
4. Ubaedillah, A, , ICCE UIN Jakarta, Tim, Civic Education for Higher Education: Pancasila, Democracy, and Corruption Prevention, Jakarta : ICCEUIN Jakarta, 2015.

Supporter:

- Abdillah, Masykuri, *Democracy at the Crossroads of Meaning: The Response of Muslim Intellectuals*, Yogyakarta : Tiara Wacana, 1999.
- Ahmad, Supriyadi, "Paradise on Earth Called Corruption: Perspectives on Islamic Law and Positive Law in Indonesia", in *Jurnal Ahkam*, Jakarta : FSH, Maret 2009.
- Azra, Azyumardi, *Towards Civil Society*, Bandung : Remaja Rusdakarya, 1999.
- , *Repositioning Religion and State Relations: Knitting Inter-Religious Harmony*, Jakarta : Kompas, 2002.
- Bakti, Andi Faisal, *Good Governance : A Workable Solution for Indonesia*, Jakarta : IAIN Jakarta Press, 2000.
- Budiardjo, Miriam, *Democracy in Indonesia: Parliamentary Democracy and Pancasila Democracy*, Jakarta : Gramedia, 1996.
- Centra, John A., *Reflective Faculty Evaluation : Enhancing Teaching and Determining Faculty Effectiveness*, San Francisco : Jossey-Bass Publisher, 1993.
- Directorate General of Learning and Student Affairs of the Ministry of Research, Technology and Education of the Republic of Indonesia, *Textbook of General Compulsory Courses in Civic Education*, 2016.
- Effendi, Bahtiar, *Islam and the State: The Transformation of Islamic Political Thought and Practice in Indonesia*, Jakarta : Paramadina, 1998.
- Hidayat, Komaruddin, dan, Gaus, Ahmad, (Ed.), *Islam, the State, and Civil Society*, Jakarta : Paramadina, 2005.
- Jamalong, Ahmad, dkk, *Pancasila and Citizenship Education in Higher Education*, Jakarta: Rajawali Press, 2019.
- Mahfud MD, Moh., *Law and the Pillars of Democracy*, Yogyakarta : Gama Media, 1999.
- Pusat Studi Wanita (PSW), *Introduction to Gender Studies*, (Jakarta : PSW UIN Jakarta, 2003.
- Rahardjo, M. Dawam, *Civil Society: Religion, the Middle Class, and Social Change*, Cetakan I, Jakarta : LP3ES, 1999.
- Silberman, Mel, *Active Learning : 101 Strategies to Teach Any Subject*, London : Allyn and Bacon, 1996.
- Sjadzali, Munawir, *Islam and Statecraft: Teachings, History, and Thought*, Jakarta : UI Press, 1990.
- Winataputra, Udin S, *What and How of Civic Education in Higher Education*, Makalah Lokakarya, 2001.

Islamic Studies

■ <i>Module Name</i>	Islamic Studies
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	UIN6032201
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Fardiana Fikria Qur'any, M. Ud
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness.
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (4 x 50 min) x 14 wks = 23.3 h • Field trip: 12 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 95.3 hours
■ <i>Credit points</i>	4 Credit Hours (4-0) 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in Laboratory and/or field works
■ <i>Recommende dprerequisites</i>	None
■ <i>Media employed</i>	Classical teaching tools with white board and PowerPoint presentation
■ <i>Forms of assessment</i>	Midterm exam 40%, Final exam 40%, Quiz 10%, Structured assignment 10%
■ <i>Intended learning outcomes</i>	<p>Students are able to apply religious, national and ethical value.</p> <p>Students have knowledge of Islamic science both normatively and historically.</p>

■ *Module content*

Lecture (Class work)

1. Definition, scope and approach to islamic studies.
2. Definition, origins, types, element, purpose and functions of religion.
3. Human need for religion.
4. Islam in it's true sense.
5. Characteritics and principles of islamic teachings.
6. Sources f islamic teachings (al-quran, al-hadis and interpretation).
7. Principles of islamic teachings; faith, islam and ihsan, knowledge and charity
8. Aspect of worship, spiritual practice and moral teachings in islam.
9. Aspect of islamic history and culture.
10. Islamic political and institutional aspects
11. Aspect of education in islam.
12. Aspect of islamic da'wah.
13. Community aspects in islam.
14. Aspect of moral development in islam.
15. Islamic perspektive on gender equality.
16. Aspect of theology in islam.
17. Islamic science i (kalam, islamic philosophy and suifsm).
18. Islamic sciences ii (ulumul quran, ulumul hadis ushul fiqh).
19. History of islam and modern-contemporary civilization.
20. Islamic development in europe/west.
21. Contribution of islam to european civilization.
22. Renewal of islamic thought in islamic countries
23. Renewal of islamic thought in southeast asia/archipelago
24. History of islam in indonesia.
25. Renewal of islamic thought in indonesia.

■ *Recommended literatures*

Abdullah, Amin, Islamic Studies Normativity or Historicity, (Yogyakarta: Pustaka Pelajar, 1996).

Abdullah, Taufik, Islam and Society Reflections of Indonesian History, (Jakarta: LP3ES, 1987), cet. I.

Abdullah, Yatimin, Contemporary Islamic Studies, (Jakarta: AMZSAH, 2006), cet. I.

Ameer Ali, Syeed, Api Islam (The Spirit of Islam), (Jakarta: PT Pembangunan, 1967).

Azra, Azyumardi, Indonesia, Islam and Democracy: Dynamics in Global Context, (Jakarta: SOLISTICE, ICIP, The Asia Foundation, 2006).

-----, Global and Local Network of Islam Nusantara, (Bandung: Mizan, 1423 H./2002 M.).

Bahesti, Mahmud Husaini, dan Jawad Bahran, The Essence of Islam, (Jakarta: Lentera, 2005);

Benda, Harry J., Crescent Moon and Sunrise-Islamic Indonesia during the Japanese Occupation, (Jakarta :Pustaka Jayam 1985), cet. II.

Connoly, Peter, Aneka Pendekatan Studi Agama (The Approaches Studi of Religion), (Jakarta: LKIS, 2002), cet. I.

Dirks, Jerald F., Abrahamic Faiths, Meeting Point and Seteru Point, (Jakarta: Serambi Ilmu Semesta, 2006).

Dermenghen, Emile, Muhammad and The Islamic Tradition, (New York: The Overlook Press, 1981);

Fuller, Graham E., A World Without Islam, (New York-Boston-London: Little Brown Company, tp. Th).

GIBB, H.A.R., Modern Schools in Islam, (Jakarta: Perdana, 1985);

Grunebaum, Gustave E.Von, Islam Unity in Diversity, (Jakarta: Indraka, 1975). Hamid, Syamsul Rizak, Islamic Religious Smart Book, (Bogor: Salam, 2003), cet. XII.Hamka, Islamic Religious Lessons, (Jakarta: Bulan Bintang, 1978), cet. VI.

Hasan, Muhammad Tholchah, Islam in Socio Cultural Perspective, (Jakarta: Lantabora Press, 2000);

Hidayat, Komaruddin dan Ahmad Gaus AF, *Being Indonesia: 13 Centuries of Islamic Existence in Bumi Nusantara*, (Bandung: Mizan, 2006), cet. I.

-----, *Islam, the State and Civil Society: Contemporary Islamic Movements and Thought*, (Jakarta: Paramadina, 2005);

Huda, Nor, *Islam Nusantara, Social History of Islamic Intellectuals in Indonesia*, (Jakarta: Ar-Ruzz Media Group, 2007), cet. I.

Iqbal, Muhammad, *Rebuilding the Religious Mind in Islam*, (Jakarta: Tintamas, 1996).

Iqbal, Shiddiqi, Mummud Mirza, *Muslim Contribution to Science*, (Lahore: Kazi Publication, 1986), cet. I.

Kirmani, Moh. Zaki, *The Qur'an and The Future and Science*, (Delhi: Global Vision Publishing House, 2001), First Edition.

Kuntowijoyo, *Islamic Paradigm: Interpretation for Action*, (Mizan: Bandung, 1411 H./1991 M.).

Lapidus, Ira M., *Social History of Muslims, Parts I, II and III*, (Jakarta: RajaGrafindo Persada, 1999), cet. I.

Nasution, Harun, *Islam Viewed from Its Various Aspects Volume I and II*, (Jakarta: UI Press, 1979).

-----, *Philosophy of Religion*, (Jakarta: Bulan Bintang, 1982), cet. I.

Madjid, Nurcholish, *Islam, Doctrine and Civilization*, (Jakarta: Yayasan Wakap Paramadina, 1992), cet. II.

-----, *Islamic Tradition, Its Role and Function in Indonesia's Development*, (Jakarta: Paramadina, 1997);, cet. I.

-----, *Islam Modernity and Indonesia*, (Bandung: Mizan, 1993), cet. V.

-----, *Religious Society*, (Jakarta: Yayasan Wakaf Paramadina, 1977), cet. I.

Muthahhari, Murthada, *Islam and the Challenges of the Times*, (Jakarta: Pustaka Hidayah, 1417 H./1996 M.);

Mujib, Abdul dan Jusuf Mudzakkir, *Islamic Studies in Various Dimensions and Approaches* (Jakarta: Prenada Media, 2005), cet. I.

Nata, Abuddin, *Comprehensive Islamic Studies*, (Jakarta: Prenada Media Group, 2011), cet. I.

-----, *Methodologists Studies Islam*, (Jakarta: RajaGrafindo Persada, 2013), cet. XX.

-----, *Integration of Religion and General Science*, (Jakarta: UIN Jakarta Press, 2003), cet. I.

Noer, Deliar, *Modern Islamic Movement in Indonesia, 1900-942*, (Jakarta: LP3ES, 1981); Rahman, Fazlur, *Islam*, (Jakarta: Bina Aksara, 1987), cet. I.

Razak, Nasruddin, *Dienul Islam*, (Bandung: al-Ma'arif, 1977), cet. II.

Practice of Qiroah and Worship

■ <i>Module Name</i>	Practice of Qiroah and Worship
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	UIN6032205
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Fardiana Fikria Qur^any, M. Ud
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness.
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of discussion. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 1,4 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 61.4 hours
■ <i>Credit points</i>	2 Credit Hours (2-0) 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in class
■ <i>Recommendation prerequisites</i>	None
■ <i>Media employed</i>	Classical teaching tools with white board and PowerPoint presentation
■ <i>Forms of assessment</i>	Midterm exam 40%, Final exam 40%, Quiz 10%, Structured assignment 10%
■ <i>Intended learning outcomes</i>	<p>■ Students are able to apply religious, national and ethical value. Students have knowledge of reading the Koran according to the rules of tajwid and religious jurisprudence in the five schools of thought.</p>

■ *Module content*

1. Lecture (Class work)
2. The urgency of learning the law of reciting the Koran and practicing it.
3. Hijaiyah and Qalqalah letters.
4. Tarqiq-Tafkhim and alif lam al-Qamariyah and as-Syamsyiah
5. Read the muqatha'ah letters
6. Mad Asli and Mad Far'i
7. Nun Mati, Tanwin and Izhar, Ikhfa, Idgham, Iqlab and Ikhfa Syafawi.
8. Wahal and Exceptional Law
9. The urgency of understanding fiqh from various perspectives of the five schools of thought (Ja'fari, Maliki, Hanafi, Syafi'i, Hanbali).
10. Taharah according to the fiqh of the five schools of thought.
11. Prayer according to the fiqh of the five schools of thought.
12. Fasting according to the fiqh of the five schools of thought
13. Zakat according to the fiqh of the five schools of thought.
14. Hajj according to the fiqh of the five schools of thought.
15. Management of the corpse according to the fiqh of the five schools of thought.

■ *Recommended literatures*

1. Aktobi Ghozali, Dkk. *Praktikum Qiroah*, Jakarta: Salemba, Diniyyah, 2019.
2. Muhammad Jawad Mughniyyah, *Fiqh Lima Mazhab*. Jakarta: lentera, 2011.

Islam and Science

■ <i>Module Name</i>	Islam and Science
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	UIN6032202
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Fardiana Fikria Qur^any, M. Ud
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness.
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 21 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 81 hours
■ <i>Credit points</i>	3 Credit Hours (4-0) 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in class
■ <i>Recommend prerequisites</i>	None
■ <i>Media employed</i>	Classical teaching tools with white board and PowerPoint presentation
■ <i>Forms of assessment</i>	Midterm exam 40%, Final exam 40%, Quiz 10%, Structured assignment 10%
■ <i>Intended learning outcomes</i>	<p>Students are able to apply religious, national and ethical value</p> <p>Students have knowledge of the integrative paradigm between philosophy, science and religion</p>

■ *Module content*

Lecture (Class work)

1. Definition of Science, Philosophy and Religion.
2. History of Science, Philosophy and Religion in the West and Islam.
3. History of Science and Philosophy Paradigm.
4. Ontology, Epistemology and Axiology of Science.
5. Source of Knowledge and Scientific Truth.
6. Islam and Humans.
7. Islam and Psychology
8. Islam and Health
9. Islam and Technology.
10. Islam and the Universe.
11. Islamic Humanities and Social Sciences
12. Islam and Agriculture
13. Implementation of Studies in Core Scientific Fields: Integrative Approach

■ *Recommended literatures*

- Abdalah, Mohammad, "The Fate of Islamic Science between the Eleventh and Sixteenth-Centuries: A Critical Study of Scholarship from Ibn Khaldun to the Present", PhD. Dissertation, Griffith University, 2003.
- Ahmed, Akbar S., Postmodernisme: Bahaya dan Harapan bagi Islam, cet. IV, Terjemah, Bandung: Mizan, 1996.
- Ajid Thohir, Studi Kawasan Dunia Islam, Jakarta: Rajawali Press, 2009.
- Ancok, Djamaluddin dan Fuat Nashori Suroso, Psikologi Islami: Solusi Islam atas Problem-Problem Psikologi, Cet. IV, Yogyakarta: Pustaka Pelajar, 2001.
- Audi, Robert, Epistemology: A Contemporary Introduction to the Theory of Knowledge, London and New York: Routledge, 1999.
- Derry, Gregory N., What is Science and How It Works (United Kingdom: Princeton University Press, 1999.
- Franz Rosenthal, Knowledge Triumphant: The Concept of Knowledge in Medieval Islam (Leiden-Boston: Brill, 2007.
- Guessoum, Nidhal, Islam's Quantum Question: Reconciling Muslim Tradition and Modern Science, London-New York: I.B. Tauris, 2011.
- Geertz, Clifford, Religion of Java. New York: The Free Press of Glencoe. 1960
- Hitchcock, Christopher, Introduction: What is the Philosophy of Science", in ed. Christopher Hitchcock, Contemporary Debates in Philosophy of Science, USA: Blackwell Publishing Ltd., 2004.
- Iqbal, Muzaffar, Science and Islam: Greenwood Guides to Science and Religion, London: Greenwood Press, 2007.
- Ismail Raji Al Faruqi dan Lamyia Al Faruqi, Atlas Budaya Islam, terj. Moh. Ridzuan Othman et. al., Kuala Lumpur: Dewan Bahasa dan Pustaka Kementerian Pendidikan Malaysia, 1992.
- Lapidus, Ira M., Sejarah Sosial Umat, Terjemahan oleh Ghufroon A. Mas'adi dari A History of Islamic Societies, Jakarta: PT Raja Grafindo Persada, 1999.
- Mahmud, Hasan Ahmad, al-Islam wa al-Hadhrah al- Arabiyyah fi Asia al-Wustha baina Al-Fathatain al-'Arabi wa al-Turki 21 H-447 H, Kuwait: Dar al-Fikr al-Arabia, 1986.
- Masjid, Nurcholish, Islam Doktrin dan Peradaban Sebuah Telaah Kritis tentang Masalah Keimanan, Kemanusiaan, dan Kemoderenan, Cetakan kedua. Jakarta: Yayasan Wakaf Paramadina, 1992.
- Masood, Ehsaan (ed.), How Do You Know: Reading Ziauddin Sardar on Islam, Science and Cultural Relations, London: Pluto Press, 2006.
- Mones, Hussain, Athlas Tarih al- Islam, Kairo: Al-Zahra for Arab Mass Media.1987.
- Mujani, Saiful Muslim Demokrat: Islam, Budaya Demokrasi dan Partisipasi Politik di Indonesia Pasca Orde-Baru. Jakarta PT Gramedia Pustaka Utama. 2007.
- Nasr, Seyyed Hossein, Science and Civilization in Islam, Chicago: ABC International Group, Inc., 2001.
- Al-Najjar, Zaghloul, Selektta dari Tafsir Ayat-ayat Kosmos dalam Al-Qur'an al-Karim, Jilid 1 dan 2, Jakarta: Shorouk International Bookshop, 2010.
- Nasution, Harun, Islam Ditinjau dari Berbagai Aspeknya, Jilid 1, Jakarta: UI Press. 1985.
- Nola, Robert and Gurol Irzik, Philosophy, Science, Education and Culture, Netherlands: Springer,

2005. Pranowo, Bambang Prof. Dr. Memahami Islam Jawa, Ciputat Pustaka Alvabet dan INSEP. 2009

Putnam, Robert, Making Democracy Work. Civic Tradition in Modern Italy. Princenton NJ: Princenton University Press. 1993

Richard Dewitt, "Philosophy of Science", in ed. Fritz Allhoff, Philosophies of the Sciences: A Guide, United Kingdom: Wiley-Blackwell, 2010.

Rosenthal, E.I.J., Islam in the Modern National state, Cambridge: Cambridge University Press, 1965

Samir Okasha, Philosophy of Science: A Very Short Introduction, New York: Oxford University Press, 2002.

Al-Sa'di, Abdulhakam Abdullatif, al-Bi'ah fi al-Fikr al-Insani wal-Waqi' al-Imani, Kairo: al-Dar al-Mishriyyah al- Lubnaniyah, 1994.

Shihab, M. Quraish, Membumikan Al-Qur'an: Fungsi dan Peran Wahyu dalam Kehidupan Masyarakat, Bandung: Mizan, 1992.

Shihab, M. Quraish, Wawasan Al-Qur'an: Tafsir Maudhu'i atas Pelbagai Persoalan Umat, Bandung: Mizan, 1996. Susanto, Musyrifah, Sejarah Peradaban Islam, Jakarta: RajaGrafindo 2005

Turner, Howard R., Science in Medieval Islam: An Illustrated Introduction, Austin: University of Texas Press, 2006. Ehsaan Masood (ed.), How Do You Know: Reading Ziauddin Sardar on Islam, Science and Cultural Relations (London: Pluto Press, 2006).

Howard R. Turner, Science in Medieval Islam: An Illustrated Introduction (Austin: University of Texas Press, 2006). Muzaffar Iqbal, Science and Islam: Greenwood Guides to Science and Religion (London: Greenwood Press, 2007), 165-171.

Nancy Morvillo, Science and Religion: Understanding the Issues (USA: Wiley-Blackwell, 2010).

Muzaffar Iqbal, Science and Islam: Greenwood Guides to Science and Religion (London: Greenwood Press, 2007), 165-171.

Nidhal Guessoum, Islam's Quantum Question: Reconciling Muslim Tradition and Modern Science (London-New York: I.B. Tauris, 201)

Introduction to Economics

■ <i>Module Name</i>	Introduction to Economics
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FEB6083201
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Dewi Rohma Wati (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness.
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into nine groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; Total = 85.3 hours
■ <i>Credit points</i>	3 Credit Hours (3-0) = 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in class
■ <i>Recommended prerequisites</i>	None
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Presence 10%, Structured assignment (individual & group) 30%
■ <i>Intended learning outcomes</i>	<p>This course is an introductory course and is a guideline for students to understand other courses about agribusiness. In this course, students are explained about both micro and macro economics which will continue to be used as a basis for deepening other subjects in the Agribusiness Study Program.</p>

■ Module content

Lecture (Class work)

14. Definition and scope of economics; Islamic economic system,
15. Demand and supply theory,
16. Consumption theory and consumer behavior,
17. Utility theory,
18. Market structure in the economy,
19. Production and elasticity theory,
20. National Income and Gross Domestic Product,
21. Money and inflation
22. The open economy,
23. Unemployment,
24. Economic Growth, and
25. History of economic thought

■ Recommended literatures

Main References:

1. History of Economic Thought 4th Ed. Harry Landreth & David Colander. 2012. Houghton Mifflin Company
2. *Introduction to Economic*. O Birchall. 2016. University of London
3. Pengantar Ekonomi: Teori dan Aplikasi. Muhammad Dinar dan Muhammad Hasan. 2018. CV Lina.
4. Macroeconomics 7th Edition. 2005. N Gregory Mankiw. Harvard University
5. *Economics An Introductory Analysis*. Paul A. Samuelson & Anthony Scott. 1967. McGraw-Hill Company of Canada Limited
6. Pengantar Ilmu Ekonomi. Elizabeth Lenny Marit, dkk. 2021. Yayasan Kita Menulis.
7. Dasar Ilmu Ekonomi. Nugrahini Susanti dan Wisnujati. 2022. Yayasan Kita Menulis.
8. Pengantar Ilmu Ekonomi. Hendra Safri. 2018. IAIN Palopo.
9. Ekonomi Moneter. Lora Ekana Nainggolan. 2021. Yayasan Kita Menulis
10. Pengantar Ekonomi Islam. Azharyah Ibrahim, Erika Amelia, Nashr Akbar, Nur Kholis, Suci Aprilliani Utami, dan Nofrianto. 2021. Bank Indonesia.
11. Pengantar Ilmu Ekonomi. Rachmat Soemitro. 1966. Penerbit Eresco Bandung.

Supporting References:

1. Relevant research results and scientific articles
2. Data from the government and other institutions/agencies
3. News from trusted media

Introduction to Agribusiness

1. <i>Module Name</i>	Introduction to Agribusiness
2. <i>Module level, if applicable</i>	Basic
3. <i>Module identification code</i>	FST6092002
4. <i>Semester(s) in which the module is taught</i>	1
5. <i>Person(s) responsible for the module</i>	Zulmaneri (Coordinator)
6. <i>Language</i>	Indonesian and English
7. <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
8. <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
9. <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23 h 20 m • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; Total = 83 hours 20 minutes
10. <i>Credit points</i>	3 Credit Hours (3-0) = 2.66 ECTS
11. <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
12. <i>Recommended prerequisites</i>	-
13. <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Powerpoint presentation
14. <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Presence 10%, Structured assignment (individual & group) 30%
15. <i>Intended learning outcomes</i>	This course is an introductory course and is a guideline for students to understand other courses about agribusiness. In this course, students are explained about agribusiness theory a basis for deepening other subjects in the Agribusiness Study Program.
16. <i>Module content</i>	<u>Lecture (Classwork)</u> <ol style="list-style-type: none"> a. Convent ional farming, integrated farming systems according to sharia, types of agribusiness, product characteristics, business characteristics and the role of technology b. The concept of an agribusiness system c. Mapping of agricultural production centers, fisheries and livestock in Indonesia d. The role of government policy in developing the Agribusiness system

	e. Agricultural sales system as the spearhead of marketing
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	<p>agricultural products</p> <p>f. The concept of sustainable agribusiness development, environmentally friendly, has unique characteristics, structures and competitive strategies in the global market in accordance with sharia</p>
<p>17. Recommended literature</p>	<p>Main References:</p> <ol style="list-style-type: none"> 1. Davis, J.H and Goldberg, R.A. 1957. A Concept of Agribusiness. Harvard University. 2. Downey, W.D and Erickson, S.P. 1987. Agribusiness Management 2nd Edition. McGraw-Hill Agricultural Series. 3. Fleet, D.V and Fleet, E.V. 2013. Agribusiness: Principles of Management. 4. Gumbira Sa'id, E and Harizt, I. 2001. Manajemen Agribisnis. Ghalia Indonesia. Jakarta. 5. Gumbira Sa'id, E. 2001. Manajemen Teknologi Agribisnis. Ghalia Indonesia. Jakarta. 6. Soekartawi. 2013. Agribisnis: Teori dan Aplikasinya. PT. Rajagrafindo Persada: Jakarta. <p>Supporting References:</p> <ol style="list-style-type: none"> 7. Relevant research results and scientific articles 8. Data from the government and other institutions/ agencies

FUNDAMENTALS OF MANAGEMENT

■ <i>Module Name</i>	FUNDAMENTAL OF MANAGEMENT
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FEB6081213
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Siti Rocheni (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into four groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • •Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours
■ <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	The course of "Fundamentals of Management"
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Paper and Presentation 10%, Attitude 15%, Structured assignment 15%, Midterm exam 30%, Final exam 30%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students able to understand the concept of the basic of human resource management (HRM) 2. Students able to differentiate operational function of human resource management 3. Students able to analyze strategies to achieve organization goals 4. Students able to analyze the changes in organization environment and how to deal with the environment 5. Students able to develop a decent and systematic writing about human resource managemen

■ *Module content*

Lecture (Class work)

1. Strategic Human Resource Management:
 - a. HRM and its functions
 - b. Dynamic environment of HRM
 - c. Trend and innovation in HRM
2. Business ethic and corporate social responsibility:
 - a. Model and definition of ethic
 - b. HRM ethic
 - c. Corporate Social responsibility
 - d. Stake holders and social contract analysis
 - e. Company's obligations to individuals, other organizations, government, and general public
 - f. Implementing CSR programs
3. Work Force Diversity and Equal Work Opportunities
 - a. Diversity and diversity management
 - b. Single parent and working mom
 - c. Women in business
 - d. Double breadwinner family
 - e. Old employee
 - f. Disabled people
 - g. Youth with limited education or skills
 - h. Employee's education level
 - i. Equal work opportunities
 - j. Concept of unequal treatment
4. Job analysis
 - a. Job analysis
 - b. Reasons to carry out a job analysis
 - c. Types of job analysis information
 - d. Method of job analysis
 - e. Carrying out the job analysis
 - f. Job description
 - g. Process of strategic planning
5. Human resource planning
 - a. Human resource planning
 - b. Predicting human resource need
 - c. Predicting human resource availability
 - d. Usage of human resource database
 - e. Prediction of human resource shortage
6. Recruitment
 - a. Definition of recruitment
 - b. Recruitment alternatives
 - c. External environment
 - d. Promotion policy
 - e. Recruitment process
 - f. Internal recruitment methods
 - g. External recruitment sources
 - h. Online recruitment methods
 - i. Traditional external recruitment method

- j. Applicant tracking system
- k. Adjusting recruitment methods to recruitment sources for diversity
- 7. Review topic 1-6
- 8. Selection and job interview
 - a. Urgencies of job interview
 - b. Environmental factor that affects the selection process
 - c. Selection process
 - d. Preliminary interview
 - e. Application examination
 - f. Resume examination
- 9. Selection and job interview (part 2)
 - a. Selection criteria: Selection test: advantages and potential problems; Characteristics of appropriately designed selection tests; Types of validation study; Types of job test; Forms of tests; Assessment center; Job interview; General types of interviews; Interview methods; Potential problems in interview; Prescreening: background investigation; Prescreening: referral verification
 - b. Trend and innovation
 - c. Measures to evaluate recruiting effectiveness
- 10. Orientation and placement:
 - a. Orientation programs
 - b. Employee placement
 - c. Hindrance of placement to productivity
- 11. Training and development:
 - a. Strategic training and development
 - b. Factors influencing training and development
 - c. Training and development process
 - d. Setting specific goals for training and development
- 12. Management development
 - a. Management development
 - b. Organization development
- 13. Review topic 8-12
- 14. Group presentation

■ *Recommended literature*

Main literatures:

1. Mondy, Wayne R (2016). Human Resource Management, 14th Edition, Pearson Education, Inc
2. Dessler, Gary (2017). Human Resource Management, 15th Edition, Pearson Education, Inc

Supporting literatures:

1. Academic journals in relevant field
2. Internet and other medias

INTRODUCTION TO AGRICULTURAL SCIENCE

■ <i>Module Name</i>	Introduction to Agricultural Science
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST609202
■ <i>Semester(s) in which the module is taught</i>	1
■ <i>Person(s) responsible for the module</i>	Armaeni Dwi Humaerah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into six groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23 h 20 m • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 83 hours 20 minutes
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2,8 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Paper and Presentation 10%, Attitude 15%, Structured assignment 15%, Midterm exam 30%, Final exam 30%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students know the meaning and the history of agricultural development 2. Students know agricultural technology on cultivation and postharvest aspects 3. Students are able to identify resources for agricultural business and alternative agriculture systems.
■ <i>Module content</i>	

Lecture (Class work)

1. Agricultural Science, environment and the history of agricultural development
2. Photosynthesis and energy for life
3. Weather and climate and other factors influencing agriculture
4. Natural resources
5. Food and nutrition
6. Postharvest Technology (agronomy & horticulture)
7. Agriculture for food and non-good
8. Agribusiness and agroindustry
9. Biotechnology and urban farming
10. The challenge and opportunity in agriculture
11. Policy on agriculture
12. Postmodern agriculture
13. Islamic insight about food and agriculture

■ *Recommended literatures*

1. Nirmala, T., Aisyah D. Suyono, A. Rodjak, Tarkus S., Sadeli N. S., Tualar S., E., Hidayat S., Yuyun Y., Tuhpawana P. S., Nursuhud, Ani Y., Sofiya H. 2012. Pengantar Ilmu Pertanian. Graha Ilmu. Jatinangor.
2. Nasution, A. H. 2006. Pengantar ke Ilmu-Ilmu Pertanian. PT. Pustaka Litera Antarnusa. Bogor.
3. Setiawan, I., Dika S., Siska R., Gunardi J. 2018. Pertanian Postmodern. Jakarta: Penebar Swadaya
4. Any Journals and other related books

SEMESTER 2

ENGLISH

■ <i>Module Name</i>	English
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	UIN6014203
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Dr. Fahriany (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Presentation assignment 30%, Mid-term test 30%, Final test 40%.
■ <i>Intended learning outcomes</i>	
<p>At the end of the program, students are expected to:</p> <ol style="list-style-type: none"> 1. Understand spoken English 2. Recognize grammatically correct English 3. Understand written English related to Agribusiness major 4. Speak and write in English in the area of Science and Technology 5. Produce correct, organized, and meaningful English. 6. Understand text books and journals related to science and technology 	

■ *Module content*

Lecture (Class work)

1. Communicate in English clearly
2. Recognize English grammar correctly
3. Participate the learning process actively
4. Ask questions bravely
5. Present English materials related to science and technology confidently
6. Use correct, organized, and meaningful English productively
7. Pronounce English vocabularies correctly
8. Analyze written English comprehensively
9. Use English related to Agribusiness/Science and technology communicatively

■ *Recommended literatures*

- Wegmann, Brenda & Miki Prijic Knezevic. 2002. Mosaic 1; Reading. 4 th Edition. New York: McGraw-Hill Contemporary.
- Choy, Penelope [et.al]. 2007. Basic Grammar and Usage for Canadians. Toronto, Canada: Thomson Wadsworth.
- Kirn, Elaine & Darcy Jack. 2002. Interaction 1: Grammar. New York: McGraw-Hill.
- Sharpe, Pamela. 2005. Barron's TOEFL Test. 11th Edition. Jakarta; Bina Aksara.
- Razaq, Octa, 2010. Test your own TOEFL Score. Jakarta; Pustaka Widyatama.
- Woodward, Suzanne W. 1997. Fun with Grammar. USA: Prentice-Hall. Journals of Science and technology
- Azar, Betty Schramfer. 2005. Understanding English Grammar. Pearson Longman Publisher.
- Fahriany, 2017. English For Agribusiness. Penerbit International English Institute of Indonesia ISBN.978-602-61737-3-7

Indonesian Language

■ <i>Module Name</i>	Indonesian Language
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	NAS6013203
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Dona Aji K, S.Pd., M.Pd.
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	General Basic Courses
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussions. Students are divided into five groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 h : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups • 100% Exam
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Formative 40%
■ <i>Intended learning outcomes</i>	<p>Indonesian course is a course that aims to equip students in the ability to understand and use Indonesian in scientific written communication. This course teaches students about the variety of written communication by default based on standard grammar Indonesian and spelling Indonesian. The ultimate goal of this course is that students are able to write a variety of written communications by default, especially in writing scientific papers.</p>

■ *Module content*

Lecture (Class Work)

1. Scientific presentation;
2. The development of Indonesian;
3. Usage and use of letters and words;
4. Punctuation, absorption elements, and transliteration;
5. Diksi;
6. Effective sentences;
7. Paragraph;
8. Paraphrasing and synthesis;
9. Essay Planning
10. Citations and bibliography;
11. Scientific Ethics
12. Production of short writings (scientific articles [journals and proceedings] and popular)
13. Reproduction of writing (abstract, review, synopsis, and description)

■ *Recommended literatures*

Primary:

1. Bahtiar, Ahmad, Nuryani, dan Syihabul Huda. *The treasures of Indonesian. Interpreting Indonesian Properly and Correctly*. Jakarta: in media. 2019
2. Arifin, E. Zainal dan S. Amran Tasai. *Carefully Speaking Indonesian*. Jakarta: Akademika Pressido, 2006
3. Akhadiah, Sabarti dan Sakura Ridwan. *Coaching Indonesian Writing Skills*. Jakarta: Airlangga, 1993
4. Finoza, Lamuddin. *The composition of Indonesian*. Jakarta : Diksi Insan Mulia, 2001.
5. Gani, Ramlan A dan Mahmudah Fitriyah Z.A. *Indonesian Language Discipline*. Jakarta: PTIK Press, 2010.
6. Hs., Widjono. *Bahasa Indonesia*. Jakarta: Grasindo, 2007.
7. Keraf, Gorys. *Komposisi*. Ende: Nusa Indah, 1993.
8. Putra, R. Masri Sareb Putra. *Kiat Menghindari Plagiat. How to Avoid Plagiarisme*. Jakarta : Indeks, 2011.

Secondary

1. Badudu, Yus. *Spelling Indonesian*. Bandung: Pustaka Prima, 1994.
2. *Complicated Indonesian*. Bandung: Pustaka Prima, 1985
3. Collin, James T. *Malay is the language of the world. Short History*. Jakarta: Obor, 2005.
4. Kridalaskna, Harimurti. *Linguistic Dictionary*. Jakarta: PT Gramedia Pustaka Utama, 2001.
5. Tim Penyusun. *Great Dictionary Indonesian*. Jakarta: Pusat Bahasa, 2007
6. Suyatno dan Asep Jihad. *How Easy It Is to Write a Scientific Paper*. Yogyakarta: Eduka, 2009.

An introduction of Accounting

■ <i>Module Name</i>	An introduction of Accounting
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FEB6082201
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Akhmad Mahbubi (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 2.66 ECTS
■ <i>Admission and examination requirements</i>	
■ <i>Recommended prerequisites</i>	All of study course in Semester 1
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Structured assignment 40%
<p>The introduction of accounting course is a compulsory subject for students of the Agribusiness study program. This course is a combination of various types of accounting: basic accounting, management accounting, financial accounting, and cost accounting which are generally widely used in the agribusiness sector</p>	

■ *Module content*

Lecture (Class work)

1. The Introduction of accounting; the basic, concepts, structure of accounting
2. Journal – the study case of service company
3. Ledger – the study case of service company
4. Adjusting journal entry – the study case of service company
5. Financial statements – the study case of service company
6. Journal and ledger - the study case of trade company
7. Adjusting journal entry, and financial statement - the study case of trade company
8. Journal, ledger, adjusting journal entry, and financial statement of farm company (farm accounting)
9. Journal, ledger, adjusting journal entry, and financial statement - the study case of manufacture company
10. Job order costing, and process costing – accounting of manufacture company
11. Full costing and variable costin – accounting of manufacture company
12. Activity based costing – accounting of manufacture company
13. Accounting for the company alliance
14. Accounting for head and branches office

■ *Recommended literatures*

Major references:

1. Yusup, A. H. 1992 . **Dasar-dasar Akuntansi**. Edisi 4, STIE. YKPN
2. Munandar. 2004, **Prinsip Dasar Akuntansi**. Edisi 1, BPFE. Yogyakarta
3. Mulyadi. 2000. **Akuntansi Biaya**. Edisi 5. Aditya Media. Yogyakarta
4. Horngren, Harrison, Robinson dan Secokusomo.1998. **Akuntansi Di Indonesia**. Buku I dan II. Penerbit Salemba Empat. Jakarta
5. Sulistina, B., Mark B, Sari E, Uji P.P. 2010. **Buku Panduan : Manajemen dan Pencatatan Usahatani**. AMARTA. USAID. Jakarta.

Minor Reference:

Aziz, M , Ichdayati, L. I dan Mahbubi, A. [Stock Valuation of Palm Oil Sector in Indonesia Securities Market](#). ICOSAT 92

Plant Science

■ <i>Module Name</i>	Plant Science
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092024
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Junaidi
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	Students are able to understand and explain the meaning and scope of all aspects of plantsso they are able to recognize plants well.

■ *Module content*

Lecture (Class work)

1. Definition of plant science, plant structure and development:
 - a. Integration of Plant Science with Islam
 - b. External structure of vegetative organs
 - c. External structure of the reproductive organs of seed plants
 - d. The difference between plants and plants
2. Plant taxonomy:
 - a. Classification, taxon, categories and concepts in plant taxonomy
 - b. Identification and nomenclature of plants
 - c. 5 devisio in regnum plantae
 - d. Cultivated plant taxonomy
 - e. Methods of work in the taxonomy
3. External structure of vegetative organs:
 - a. Root. Development, nature and function, origin and metamorphosis.
 - b. Stem. Development, properties and functions, buds on stems, classification and metamorphosis of stems
 - c. Leaf. Development and origin of leaves, leaf parts and leaf appendages, leaf layout and leaf metamorphosis, single and compound leaves
4. External structure of the reproductive organs
 - a. Flowers, flower parts, petal metamorphosis,
 - b. Male genitalia, female genitalia
 - c. Fruit, single true fruit, fleshy true fruit, double and compound true fruit
 - d. Seed, seed coat, umbilical cord, seed contents
 - e. Embryos (Institutions), Institute roots, Institute leaves, stems and shoots of institutions
5. Plant anatomy (cells and tissues and organs):
 - a. Cell. Cytology, protoplasmic components (cytoplasm, cell nucleus, plastids, mitochondria, ribosomes, ER, golgi bodies, microtubules, lysoson
 - b. Liquid and solid non-proplasmic components
 - c. Cell wall and membrane
 - d. Nuclear and cell division
 - e. Embryonic tissue / meristem, mature tissue, protective tissue and transport tissue
 - f. Stem and root organs
6. Plant physiology:
 - a. Plant physiology, seed physiology, postharvest physiology
 - b. Photosynthesis. Leaves as photosynthetic organs, factors that affect photosynthesis
 - c. Utilization of photosynthesis by plants
 - d. Respiration in plants
7. Transport in plants
 - a. The process of taking and releasing substances to all parts of the plant body
 - b. The process of absorption of water and minerals
 - c. Absorption and circulation of water in plants
 - d. Factors Affecting Water Transportation.
 - e. Transpiration mechanism

8. Plant ecology:

- a. Understanding ecology and organization of living things
- b. Food webs and food pyramids
- c. Environmental components that affect plant growth
- d. Habitats and niches

9. Plant classification:

- a. Classification based on age, benefits, habitat, nutritional content
- b. Annual, biennial, perennial
- c. Food, medicinal, plantation crops
- d. Hydrophytes, hygrophytes, xerophytes, mesophytes, sphytes, epiphytes and long-day plants

10. Plant genetics:

- a. Definition of genetics
- b. Genetics as the basis of breeding science
- c. Inheritance of traits, Mendel's laws 1 and 2
- d. Genetic analysis
- e. Definition of breeding, program and purpose of plant breeding

11. Reproductive system in plants:

- a. Sexual and asexual reproduction.
- b. The advantages and disadvantages of the sexual and asexual reproductive system

12. Control systems in plants:

- a. Internal and external factors that affect the control system
- b. Daily and seasonal response control
- c. Growth regulator

13. Plant biochemistry:

- a. Enzyme

■ *Recommended literatures*

1. Tjitrosoepomo, G. 1993. Taksonomi Tumbuhan. Gajah Mada Press, Yogyakarta.
2. Tjitrosoepomo, G. 2003. Morfologi Tumbuhan. Gajah Mada Press, Yogyakarta
3. Hartana, A. 1992. Genetika Tumbuhan. PAU Ilmu Hayat IPB. Bogor
4. Benyamin Lakitan. Dasar-Dasar Fisiologi Tumbuhan
5. Sutarmi Tjitrosomo. 2010. Botani Umum 1 dan 2. Angkasa, Bandung
6. Sutrian, S. 2004. Pengantar Anatomi Tumbuhan. Rineka Cipta. Jakarta
7. Nugroho, H., dkk. 2006. Struktur dan Perkembangan Tumbuhan. Penebar Swadaya. Jakarta.

Practice of Plant Science

■ <i>Module Name</i>	Practice of Plant Science
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092025
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Junaidi
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	Students participate in planting activities in accordance with practicum instructions. Students collect different types of leaves, flowers, stems and roots, recognize the morphology, anatomy and classification of plants.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
■ <i>Credit points</i>	1 Credit Hours (2-0) □ 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	Students are able to observe, understand, and be able to explain processes related to plants starting from taxonomy, morphology, anatomy, physiology, ecology, plant genetics, plant reproduction, plant classification, control systems in plants, and plant cell chemistry

■ *Module content*

1. Definition and scope of Plant Science Practice
2. Plant taxonomy
3. Plant morphology (roots, stems, leaves, flowers, fruit)
4. Plant anatomy (root, stem and leaf organ tissue)
5. Plant physiology (photosynthesis and respiration)
6. Plant ecology (competition and seed germination)
7. Plant genetics (monohybrid and dihybrid genetic analysis)
8. Plant reproduction (crosses in plants)

■ *Recommended literatures*

1. Tjitrosoepomo, G. 1993. Plant Taxonomy. Gadjah Mada Press, Yogyakarta.
2. Tjitrosoepomo, G. 2003. Plant Morphology. Gadjah Mada Press, Yogyakarta
3. Hartana, A. 1992. Plant Genetics. PAU Life Sciences IPB. Bogor
4. Benyamin Lakitan. Basics of Plant Physiology
5. Sutarmi Tjitrosomo. 2010. General Botany 1 and 2. Angkasa, Bandung
6. Sutrian, S. 2004. Introduction to Plant Anatomy. Rineka Cipta. Jakarta
7. Nugroho, H., dkk. 2006. Plant Structure and Development. Penebar Swadaya. Jakarta.
8. Plant Science Practicum Guide. 2023. Program Studi Agribisnis Fakultas Sains dan Teknologi UIN Jakarta

TECHNOPRENEURSHIP

■ <i>Module Name</i>	Technopreneurship
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	FST6092035
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Achmad Tjachja Nugraha (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23 h 20 m • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 83 hours 20 minutes
■ <i>Credit points</i>	2 Credit Hours (2-0) = 2,8 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Present 20%, Task 20%, Mid-term Exam 30%, Final Exam 30%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. This course provides comprehensive knowledge of trade developments to modern business models. 2. Adding insight into the essence of modern business with religious values which includes the definition of concepts and the nature of the relationship between business concepts and economic, technological, socio-cultural and religious values. 3. Students are able to create a comprehensive simple business model, and are able to provide simple business results in real form. 4. Students are able to internalize the spirit of independence, struggle, and entrepreneurship to achieve perfect results. 5. Students are able to apply technology-based entrepreneurship with quality-based

innovation values, and quality by utilizing as much as possible their potential.

■ *Module content*

1. Technopreneur principles and their roles.
2. Trade, Business, and Entrepreneurship (Scope, roles and differences of each)
3. Modern and Islamic Business (Development and model in Islamic perspective)
4. Business Management (Implementation of management and managerial concepts)
5. Marketing of superior products (marketing strategy)
6. Market Price Penetration (Pricing, margin, etc.)
7. Islamic Business Feasibility Study (business feasibility variables and scientific approaches and implementation)
8. Simple Business Proposal (Simple and implementative business proposal model)
9. Business Model Presentation (Ideal presentation of business beliefs and markets)
10. Market Models in Macroeconomics (Market models in business approach)
11. Review of the ideal business model (review of proposals)
12. Creativity in business (the power of creativity of business people)
13. Technology implementation (business efficiency and effectiveness)
14. Business packaging
15. Advertising in Business Implementation

■ *Recommended literatures*

1. ITS Technopreneurship Development Team. (2015). Technopreneurship. Surabaya:ITS Press. Pustaka Pendukung
2. Justin G. Longenecker, Carlos W. Moore, J. William Petty, "Small Business Management " @ 2000 South-Western College Publishing.
3. Jeff Madura. " Introduction to Business 2 nd Edition " 2001 by South-WesternCollege Publishing., a Division of Thomson Learning.
4. Mudjiarto, Aliaras Wahid "Entrepreneurship" Motivation and Achievement in Entrepreneurial career – UIEU University Press 2008
5. Drs. Masykur Wiratmo, M.Sc. "Introduction to Entrepreneurship" BPFE Publisher-Yogyakarta 2006. (Mas)
6. PKM Higher Education Guidelines 2016

AGRICULTURAL COMMUNICATION

■ <i>Module Name</i>	Agricultural Communication
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092007
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Ujang Maman (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Agricultural Development in Islam
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 25%, Final exam 30%, Paper and Presentation 15%, Attitude 15%, Individual Task 15%
■ <i>Intended learning outcomes</i>	<ul style="list-style-type: none"> • Uphold the values of academic ethics, which include honesty and academic freedom and academic autonomy that encourage students to have professional abilities in agribusiness management. • Students have knowledge of communication theories for the development of agricultural socioeconomic studies and agribusiness management. • Students are able to identify, process, analyze and utilize agribusiness data based on communication processes.

■ *Module content*

1. The notion of communication, agricultural communication, developmental communication, and innovation diffusion;
2. Elements of Communication (Communicators, messages, media, message receivers, and effects);
3. Communication processes (one-way, two-way, bottom up, top down, interactive, and dialogue);
4. Communication Planning (audience segmentation, expected effects, media/channel choice, and factors
5. supporters);
6. Determine priority programs in planning a communication;
7. Evaluate and follow up on the results of the communication process
8. Communication program planning & evaluation models
9. Dimensions and hierarchy of communication effects (based on channels, messages, and audiences);
10. Communications, Marketing, and Social Marketing;
11. Islamic ethics in communication.

■ *Recommended literatures*

Main:

1. Everett M. Rogers, 1983, Diffusion of Innovation, Third Edition, The Free Press, New York, USA
2. Soekartawi, 1988, Basic Principles of Agricultural Communication, Publisher Universitas Indonesia, Jakarta, Indonesia;
3. Ujang Maman et al. "The Effectiveness of Farmer Field School in Dissemination of Innovation: The Case of Orchids Farmers in Tangerang Banten and the Onion Farmers in Brebes Central Java," Middle East Journal of Scientific Research Vol.23 (12), pp. 2927-2936, 2015
4. Ujang Maman et al., "Adoption of Farmer Field School to Develop Entrepreneurship: The Case of Paddy Seed Growers and Small Business Trainees in Indonesia," Advances in Intelligent Systems Research (AISR), volume 149, Published by Atlantis Press, 2018.

Supporter:

1. Articles from websites and other appropriate media.

AGRICULTURAL SOCIOLOGY

■ <i>Module Name</i>	Agricultural Sociology
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092004
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Ujang Maman (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> ● Lecture (class): (3 x 50 min) x 14 wks = 35 h ● Structured activities: 3 h x 14 wks = 42 h ● Independent study: 3 h x 14 wks = 42 h ● Exam: lecture 2 h x 2 times = 4 h; ● Total = 123 hours
■ <i>Credit points</i>	3 Credit Hours (3-0) □ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Agricultural Development in Islam
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Paper and Presentation 15%, Attitude 15%, Structured assignment 15%, Midterm exam 25%, Final exam 30%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Uphold the values of academic ethics, which include honesty and academic freedom and academic autonomy in viewing every social phenomenon 2. Students have knowledge of social change theories for the development of agricultural socioeconomic studies and agribusiness management 3. Students are able to identify, process, analyze and utilize agribusiness data based on the latest reality of social change
■ <i>Module content</i>	

Lecture (Class work)

1. Understanding sociology, rural sociology, sociology of agriculture and the urgency of social media for agricultural development in Islamic and conventional perspectives;
2. The direction of change regarding rural, village, town, suburban, and city concepts in agricultural development;
3. Cultural aspects of village communities, between peasants, farmers, and subsistence;
4. The process of forming paddy fields and human relationships with land;
5. The dualism of the concept of agriculture, between people's agriculture vs. capital plantations;
6. The capitalistic, socialistic, people's agriculture, and agricultural systems in Islam;
7. Social changes in rural communities and their implications for agricultural development.

■ *Recommended literatures*

1. Rahardjo, Introduction to Rural and Agricultural Sociology, Yogyakarta, UGM Press, Revised Edition, 2017
2. James C. Scott, Farmer Economic Morals, Jakarta, Revised Edition, LP3ES, 2019;
3. Ujang Maman et al., From Single to Dual System: Initiating the Model of Wet Rice Field Management to Optimize Staple Food Availability, Journal of Engineering and Applied Sciences, Vol. 13(21), pp. 9259-9268, 2018, <https://docsdrive.com/pdfs/medwelljournals/jeasci/2018/9259-9268.pdf>.
4. Ujang Maman et al., Mitigation of Wetland Conversion Risk in Post-Harvest Phase to Optimize Staple Food Availability, Journal of Engineering and Applied Sciences, Vol. 13(8), pp. 2003-2012, 2018, <https://medwelljournals.com/abstract/?doi=jeasci.2018.2003.2012>
5. Ujang Maman et al., 'AL-MUSAQAH' AND SHARIA AGRIBUSINESS SYSTEM: An Alternative Way to Meet Staple Food Self Sufficiency in Contemporary Indonesia, Hunafa: Jurnal Studia Islamika, Vol. 14(2), pp. 189-231, 2017, DOI: <http://dx.doi.org/10.24239/jsi.v14i2.448.189-231>
6. SMP Tjondronegoro and Gunawan Wiradi, Two Centuries of Land Tenure, Jakarta, Yayasan Obor Indonesia, 2008

Introduction to Agro-industrial Material Properties/PBA

■ <i>Module Name</i>	Introduction to Agro-industrial Material Properties/ PBA
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092022
■ <i>Semester(s) in which the module is taught</i>	2
■ <i>Person(s) responsible for the module</i>	Agustina Senjayani
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The courses are delivered through lectures enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 weeks = 23.3 h • Structured activities: 2 h x 14 weeks = 28 h • Independent study: 2 h x 14 weeks = 28 h • Exam: (2x50 min) x 2 times = 3,33 h; • Total = 83.3 hours: 30 hours =2,76 ECTS
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2,76 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation, video material (flipped classroom)
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The course provides an overview of the sources and types of agricultural product substance derived from vegetable and animal origin; physiological, biological, chemical, physical, morphological properties, and their relation to processes in the processing industry. In general, these materials can be grouped into cereals and legumes, tubers, horticulture, plantation products (refreshment ingredients), essential oils, fiber materials, livestock products (meat, poultry, milk, eggs), fishery products, oil and fat.</p> <p>In this course students are trained to improve their understanding of the nature of materials that is important for use in the selection of raw materials, processing and storage techniques, utilization of by-products and industrial waste, sanitation and hygiene as well as the purpose of marketing (promotion) of the final industrial product</p>

■ *Module content*

Lecture (Class work)

1. Introduction
 - a. Scope and urgency of knowledge on agro-industrial material properties
 - b. Sources and types of plant-based material
 - c. Sources and types of animal-based material
 - d. Material properties (biological and physiological properties, physical, hydration/moisture content, chemical and nutritional value)
 - e. Deterioration and material quality deviation (types of damage in general)
2. Fruit and vegetables
 - a. Definition of fruits and vegetables
 - b. Classification of fruits and vegetables
 - c. The structure of fruits and vegetables
 - d. Physiological changes after harvest (photosynthesis, respiration, browning)
3. Cereal and Legumes
 - a. Structure and physical properties of cereals and legumes
 - b. Chemical composition
 - c. Milling
 - d. Rice amylose content
4. Tubers
 - a. Type, morphology, physical properties and chemical composition of tubers
 - b. Drying and flouing
 - c. Extraction of tuber starch
5. Fresheners (Tea, Coffee, Cocoa) and Spices
 - a. Structure and physical properties of tea, coffee, cocoa
 - b. Handling / processing
 - c. Caffeine, theobromine, tannins
 - d. Types, morphology, physical properties and chemical composition of spices
 - e. Drying spices
 - f. Extraction of oleoresin
6. Oil and Fat
 - a. Palm sources
 - b. Structure and physical properties of oil-producing materials
 - c. Physical and chemical properties of oils and fats
 - d. Changes in physical properties during storage

- e. Rancid oil and fat
- f. Manufacture of CPO, PKO, copra, vegetable oil
- 7. Handling of vegetable materials (different commodities per group) in traditional and modern markets
- 8. Meat
 - a. Meat and meat composition
 - b. Chemical composition
 - c. Carcass
 - d. Post mortem physiology
 - e. Curing meat
- 9. Poultry
 - a. Type of carcass and its components
 - b. Physical and chemical composition of the carcass
 - c. Poultry and carcass quality classification
 - d. Post-mortem physiology Post-mortem management
- 10. Dairy
 - a. Type, physical properties and chemical composition of milk
 - b. Milk special properties
 - c. Changes during milking
 - d. Handling fresh milk
- 11. Egg
 - a. Type, chemical composition and functional properties of egg
 - b. Physico-chemical changes of egg
 - c. Egg handling
 - d. Quality parameters
 - e. Maintain egg quality
- 12. Fish
 - a. Type, chemical composition of fish
 - b. Post-mortem chemical changes
 - c. Post mortem handling
 - d. Freshness of fish
- 13. Package and Packaging
 - a. Packaging materials
 - b. Type and function of packaging
- 14. Animal based material Handling
 - a. Handling in Slaughterhouses, traditional and modern markets
 - b. QS/QA in traditional/modern/e-groceries markets

■ *Recommended literatures*

Primary

1. Ilmu Pengetahuan Bahan Pangan. 2010. Tien R Muchtadi dkk. Alfabeta. 2.
2. Kimia, Pangan, dan Gizi. 1995. FG Winarno
3. Pengetahuan Bahan Untuk Industri Pertanian. 1988. Rizal Syarief dan Anis Irawati.PT. Madya Tama Sarana Perkasa. Jakarta
4. *Food Processing Handbook*. James G Brennan (Bab I). 2006. WILEY-VCH VerlagGmbH & Co. KGaA, Weinheim
5. Journals

Secondary

6. *Purchasing Decision of Meat Product in Tukang Sayur Apps during Covid-19 Pandemic*. 2022. Riansyah, R, Muhib, A, Senjayani, A.
7. *Field Study Report* Penanganan Bahan Hewani di 6 Pasar Tradisional di Tangerang.2022. Editor Agustina Senjayani
8. Penerapan Bahan Tambahan Pangan (BTP). 1 Oktober 2021. PPT Workshop Pendampingan UKM Pangan Banten, FASDA BPOM oleh Agustina Senjayani
9. *Study on Quality Control of Fried Tofu Production in RAF SME, Serang Banten*. 2021.Fitriana, Z, Dwiningsih E, Senjayani A
10. Analisis Risiko Distribusi Makanan Olahan Beku di PT Salimah Prima Cipta Tangerang Selatan. 2020. Koentjoro, D, Nugraha, Senjayani, A

ELEMENTARY STATISTICS

■ <i>Module Name</i>	Elementary Statistics
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6094106
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Rizki Adi Puspita Sari
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> ■ Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h ■ Structured activities: 3 h x 14 wks = 42 h ■ Independent study: 3 h x 14 wks = 42 h ■ Exam: lecture 2 h x 2 times = 4 h; ■ Total = 123 hours : 30 h = 4.1 ECTS
● <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Present 5%, Attitude 15%, Assignment structured 40%, Mid-term test 20%, Final test 20%.
■ <i>Intended learning outcomes</i>	
<ol style="list-style-type: none"> 1. Students are able to understand and explain the concept of the use of statistics, data simplification, differentiation measures and distribution of line equation data and presentation in tables. 2. Students are able to analyze parameter estimates and hypothesis tests, data collection methods, surveys and problems. 3. Students are able to analyze data simply in related fields of science using methods in basic statistics. 	

■ *Module content*

1. Understanding and Role of Statistics in Agricultural Socio-Economics and Agribusiness
2. Types of Data in Statistics
3. Descriptive Statistics and Inference
4. Measures of Concentration and Dispersion
5. Population and Sample
6. Normal Distribution
7. Sampling Distribution
8. Introduction to Hypothesis
9. Confidence interval
10. Simple Linear Regression and Correlation
11. Introduction to Non-Parametric Statistics

■ *Recommended literatures*

1. Walpole, RE, 1995, Pengantar Statistika, Edisi III, Gramedia, Jakarta.
2. Douglas A. Lin, William G. Marchal, Samuel A. Wathen, 2014, Statistical Techniques in Economics and Business, Volumes 1 and 2, Salemba Empat, Jakarta

SEMESTER 3

ECONOMICS AND BUSINESS MATHEMATICS

■ <i>Module Name</i>	Economics and Business Mathematics
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	FEB6083204
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Eny Dwiningsih (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 "=35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 25%, Attitude 5%
■ <i>Intended learning outcomes</i>	<ul style="list-style-type: none"> • Students are able to apply religious, national, and ethical values • Students have knowledge of agribusiness management, agricultural socioeconomicsand other related knowledge • Students are able to identify, process, analyze and utilize agribusiness data

■ *Module content*

1. Main Concepts of Relations and Functions
2. Understanding Types and Linear Functions in a Graph
3. Linear Functions in Economics
4. Tan-Linear Functions (Square Function and Fraction Function)
5. Non Linear Functions
6. Non Linear Functions in Economics
7. Function Limit
8. Differential Count
9. Derivative application of a function in economics
10. Integral Count
11. Integral application in economics

■ *Recommended literatures*

Main:

1. Dumairy, Applied Mathematics for Business and Economics, BPFE Yogyakarta, 2003

Supporter

1. Sofjan Assauri, Economic Mathematics, PT Raja Grafindo Persada
2. Josep B.Kalangi, Mathematics for Economics and Business
3. Budnick,S.Frank.Applied Mathematics for Business,Economics,and The Social Sciences.Ed.ke –4. Singapore: Mc Graw-Hill, 1993
4. Chiang,C.Alpha.Fundamental Methods of Mathematical Economics. Ed.ke- 3.NewYork: Mc Graw-Hill, 1984
5. Dowling, Edward T. Intruduction Mathematical Economics. 2nd Ed. Singapore McGraw-Hill, 1992
6. Nata Wirawan.Easy Way to Understand Economic Mathematics. Ed.Ke –4.Denpasar : Keraras E mas, 2003 (mandatory)
7. Weber, Jean E. Mathematical Analysis, Application of Business and Economics.Volumes 1 and 2.4th edition. Jakarta: Erlangga, 1982 (Translation: Drs.Stephen Kakicina, MBA)

AGRICULTURAL ECONOMICS

■ <i>Module Name</i>	Agricultural Economics
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092006
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Achmad Tjachja Nugraha (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 min = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Individual Task 10%, Team Task 10%, Quiz 10%
■ <i>Intended learning outcomes</i>	<ul style="list-style-type: none"> • This course provides comprehensive knowledge of economic and agricultural principles • Adding insight into the essence of demand theory, production theory, price theory to implementation in various market structures in agricultural development. • Students are able to make basic models of modern agriculture.

■ *Module content*

1. Economic understanding and scope of agricultural economics
2. Fundamentals of Indonesia's agricultural economy
3. Agricultural Problems
4. Agricultural Resources
5. Supporting aspects of agricultural development
6. Economic principles in agriculture
7. Production principle
8. Production factors
9. Combination of Input Output
10. Market demand and supply
11. Agricultural commerce
12. Agricultural Institutions
13. Theory of agricultural development
14. Agricultural policy

■ *Recommended literatures*

Main:

1. Soekartawi, Basic Principles of Agricultural Economics. Eagle Press
2. Moehar Daniel, Introduction to Agricultural Economics, Bumi Aksara
3. Mubyarto, Introduction to Agricultural Economics, LP3ES

AGRICULTURAL COMMUNICATION

■ <i>Module Name</i>	Agricultural Communication
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092007
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Ujang Maman (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Agricultural Development in Islam
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 25%, Final exam 30%, Paper and Presentation 15%, Attitude 15%, Individual Task 15%
■ <i>Intended learning outcomes</i>	<ul style="list-style-type: none"> • Uphold the values of academic ethics, which include honesty and academic freedom and academic autonomy that encourage students to have professional abilities in agribusiness management. • Students have knowledge of communication theories for the development of agricultural socioeconomic studies and agribusiness management. • Students are able to identify, process, analyze and utilize agribusiness data based on communication processes.

■ *Module content*

1. The notion of communication, agricultural communication, developmental communication, and innovation diffusion;
2. Elements of Communication (Communicators, messages, media, message receivers, and effects);
3. Communication processes (one-way, two-way, bottom up, top down, interactive, and dialogue);
4. Communication Planning (audience segmentation, expected effects, media/channel choice, and factors
5. supporters);
6. Determine priority programs in planning a communication;
7. Evaluate and follow up on the results of the communication process
8. Communication program planning & evaluation models
9. Dimensions and hierarchy of communication effects (based on channels, messages, and audiences);
10. Communications, Marketing, and Social Marketing;
11. Islamic ethics in communication.

■ *Recommended literatures*

Main:

1. Everett M. Rogers, 1983, Diffusion of Innovation, Third Edition, The Free Press, New York, USA
2. Soekartawi, 1988, Basic Principles of Agricultural Communication, Publisher Universitas Indonesia, Jakarta, Indonesia;
3. Ujang Maman et al. "The Effectiveness of Farmer Field School in Dissemination of Innovation: The Case of Orchids Farmers in Tangerang Banten and the Onion Farmers in Brebes Central Java," Middle East Journal of Scientific Research Vol.23 (12), pp. 2927-2936, 2015
4. Ujang Maman et al., "Adoption of Farmer Field School to Develop Entrepreneurship: The Case of Paddy Seed Growers and Small Business Trainees in Indonesia," Advances in Intelligent Systems Research (AISR), volume 149, Published by Atlantis Press, 2018.

Supporter:

1. Articles from websites and other appropriate media.

Fundamentals of Agronomy

■ <i>Module Name</i>	Fundamentals of Agronomy
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092124
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Junaidi
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Plant Science
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	Students have an understanding of the meaning and scope of agronomy and can carry out agronomic actions in managing plants and their environment to obtain optimal production.

■ *Module content*

Lecture (Class work)

1. The definition of agronomy and agronomic actions:
 - a. Integration of agronomy with Islam
 - b. Agronomic measures
 - c. Agronomic aspects and environment

2. Agriculture, energy and its components:
 - a. Light and heat energy
 - b. Water circulation and the importance of water for plants
 - c. Air for plant growth

3. Soil and plant environment:
 - a. Definition of soil, soil classification and soil fertility.
 - b. Plants and environment
 - c. plant density
 - d. Intercropping and plant adaptation

4. Plant Growth and Production
 - a. The concept of photosynthesis and respiration for growth
 - b. Increased photosynthetic efficiency
 - c. Metabolism and yield of plant dry matter

5. Business and basic principles of plant production:
 - a. Superior Seeds
 - b. Plant breeding
 - c. Various methods of plant breeding
 - d. The process of obtaining seedless fruit

6. Land work and irrigation:
 - a. Purpose and method of tillage
 - b. Land preparation tools
 - c. Water requirements for plants and how to provide irrigation

d. Salt stress and mechanisms of tolerance to salt stress

7. Fertilizer and fertilization

- a. Types of fertilizers and how to apply fertilizers
- b. Environmental conditions that affect fertilization
- c. Calculation of fertilizer doses
- d. Fertilization evaluation

8. Plant protection :

- a. Control of pests, diseases and weeds
- b. The impact of using pesticides on the environment
- c. Use of biological agents

9. Soil damage and efforts to maintain soil fertility:

- a. Causes of damage to soil fertility
- b. Maintain soil fertility

10. Plant reproduction:

- a. Cell division by meiosis
- b. Hybridization
- c. Definition of breeding, program and purpose of plant breeding

11. Genetic engineering through biotechnology:

- a. Natural cross
- b. transgenic plants
- c. GMOs
- d. Impact of genetic engineering

■ *Recommended literatures*

1. *Jumin, H.B. 2010. Dasar-Dasar Agronomi, Edisi Revisi. Rajawali Press, Jakarta,*
2. *Hardin, G. and C, Bajema. 1978. Biology. Its Principles and Implications. WH. Freeman and Company. San Francisco*
3. *Harjadi, S.S. 1979. Pengantar Agronomi. Gramedia. Jakarta.*
4. *Hardjowigeno, S.1992. Ilmu Tanah. Mediatama Sarana Perkasa, Jakarta.*
5. *Syukur, M., Sujiprihati, S., Yunianti, R. 2002. Teknik Pemuliaan Tanaman.*

Practical Fundamental of Agronomy

■ <i>Module Name</i>	Practical Fundamental of Agronomy
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092125
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Junaidi
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	Students take part in gardening activities according to practicum instructions. Students are divided into three groups, planting one type of plant, activities are carried out starting from cultivating land, planting process and plant care to harvest
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
■ <i>Credit points</i>	1 Credit Hours (2-0) □ 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Plant Science
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>Students have an understanding of the meaning and scope of agronomy and can practice agronomic actions in managing plants and their environment to obtain optimal production and are able to make organic fertilizer from plant waste</p> <p>.</p>

■ *Module content*

Lecture (Class work)

1. Scope of practicum and agronomic actions
2. Seed handler for planting preparation
3. Land processing
4. Planting seeds
5. Fertilization
6. Watering
7. Plant protection against pests and diseases
8. Weed Control
9. Regulation of plant growth
10. Harvest handling
11. Making organic fertilizer from plant waste

■ *Recommended literatures*

1. Jumin, H.B. 2010. Fundamentals of Agronomy, Edisi Revisi. Rajawali Press, Jakarta,
2. Hardin, G. and C, Bajema. 1978. Biology. Its Principles and Implications. WH. Freeman and Company. San Francisco
3. Harjadi, S.S. 1979. Introduction to Agronomy. Gramedia. Jakarta.
4. Hardjowigeno, S.1992. Soil Science. Mediatama Sarana Perkasa, Jakarta.
5. Syukur, M., Sujiprihati, S., Yuniarti, R. 2002. Plant Breeding Techniques.

SEED PRODUCTION

■ <i>Module Name</i>	SEED PRODUCTION
■ <i>Module level, if applicable</i>	Beginner (Foundational Courses)
■ <i>Module identification code</i>	FST6092026
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Titik Inayah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by a short discussion. Students were divided into five groups of structured assignments, and each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 83.3 hours : 30 h = 2,78 ECTS
■ <i>Credit points</i>	2 Credit Hours (2-0) ≈ 2,78 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Plant Science
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The Seed Production course is a compulsory subject for agribusiness students, which forms the basis of knowledge in plant cultivation included in the upstream agribusiness subsystem. This course covers concepts and principles of seed production; factors affecting germination, viability and vigor of seeds; substrate germination and dormancy of seeds; seed certification and testing; seed deterioration and its characteristics; storage seed; seed invigoration; and seed agribusiness issues. After taking this course, students are expected to be able to explain the process and stages of plant seed production up to consumers/farmers based on government regulation No 12 of 2018 concerning The Production, Certification, and Distribution of Plant Seeds.</p>

■ *Module content*

1. The importance of seeds in life, Concepts, and Principles of Seed Production
2. The role of seed technology for farmers and plant breeders
3. Seed germination and factors that influence it
4. Germination process, seed viability, and vigor
5. Germination substrate and seed dormancy
6. The importance of seed production
7. Methods of hybrid and non-hybrid seed production
8. The importance of seed certification and the process of seed certification
9. Seed testing in the field and laboratory
10. Seed decline
11. Seed characteristics and seed storage
12. Invigoration of seeds
13. Problems in the seed business
14. Ways and tips to overcome the problems of seed agribusiness

■ *Recommended literature*

1. Copeland, L.O. and Miller, B.M. 1995. Seed Science and Technology. 3 ed.
2. Chappman and Hall, Dept. B.C, 115 Avenue, New York. NY 10003.
3. Kamil, J. 1982. Teknologi Benih 1. Angkasa Bandung. Bandung.
4. Sutopo, L. 1993. Teknologi Benih. PT Raja Grafindo Persada. Jakarta.
5. Peraturan Pemerintah No 12 Tahun 2018 tentang Produksi, Sertifikasi dan Peredaran Benih Tanaman.
6. Kuswanto H. 1996. Dasar-dasar Teknologi, Produksi dan Sertifikasi Benih. Andi offset, Yogyakarta.
7. M.Q. Wahyu dan A. Setiawan. 1991. Produksi Benih. Bumi Aksara Jakarta
8. Sadjad, S. 1993. Dari Benih untuk Benih. Grasindo, PT Gramedia Widiasarana Indonesia, Jakarta.
9. Sudikno, T.S. 1977. Teknologi Benih. Yayasan Pembina Fakultas Pertanian UGM. Yogyakarta.

PRODUCTION MANAGEMENT

■ <i>Module Name</i>	Production Management
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FEB6081332
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Rizki Adi Puspita Sari (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours
■ <i>Credit points</i>	3 Credit Hours (3-0) □ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Agricultural Development in Islam
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Present 10%, Attitude 5%, Structured assignment 15%, Midterm exam 30%, Final exam 40%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Able to understand conventional production management and the application of production management in Islam (P1) and (S2) 2. Able to explain the identification of production management problems and issues in the Global and Industrial 4.0 era (P2) and (P3) 3. Can use production management models and recommend reliable management decision making alternatives from the aspect of production management (KK1)
■ <i>Module content</i>	

Lecture (Class work)

1. Overview of Agribusiness Production Management (Sub CPMK 1)
2. Global Operations Operations, Productivity and Strategy
3. Project Management
4. Forecasting in Production Management
5. Product and Process Design
6. Location and Layout Strategy
7. Planning and Production Capacity
8. Inventory Management
9. Aggregate Planning
10. Quality Management
11. Decision Making Tools

■ *Recommended literatures*

Main:

Heizer, Jay and Barry Render. Operations Management: Sustainability and Supply Chain Management. Eleventh Edition. Pearson Education Ltd

Supporter

1. Hani Handoko, T. 2000. Fundamentals of Production and Operations Management
2. Hill, Alex and Terry Hill. Operations Management. 3-rd Edition. Palgrave Macmillan, 2012.
3. Slack, Nigel., Alistair Brandon-Jones, Robert Johnston. Operations Management. Pearson Education Ltd, 2016.
4. Stevenson, William. Operations Management. McGraw-Hill Publishing, 2011
5. National and international scientific journals

Agricultural Trading System

1. <i>Module Name</i>	Agricultural Trading System
2. <i>Module level, if applicable</i>	Intermediate
3. <i>Module identification code</i>	FST6092011
4. <i>Semester(s) in which the module is taught</i>	3
5. <i>Person(s) responsible for the module</i>	Elpawati (Coordinator)
6. <i>Language</i>	Indonesian and English
7. <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
8. <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into 8 groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
9. <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; Total = 85.3 hours
10. <i>Credit points</i>	3 Credit Hours (3-0) = 2.66 ECTS
11. <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
12. <i>Recommended prerequisites</i>	-
13. <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
14. <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Presence 5%, Structured assignment (individual & group) 35%
15. <i>Intended learning outcomes</i>	The Agricultural Trading System course covers the understanding of the trading environment, the function of the trading system, the function of the trading system, approaches to analyzing the agricultural trading system, agricultural demand, agricultural supply, elasticity that occurs in agricultural commodity prices, agricultural organization and structure, supply chains, agricultural value chains, policies and government intervention in the agricultural sector.
16. <i>Module content</i>	<u>Lecture (Classwork)</u> <ol style="list-style-type: none"> a. The scope of agricultural trading and its problems in the economy b. Functions and types of agricultural trading systems c. Agricultural sector marketing system d. Trading costs

	<ul style="list-style-type: none"> e. Value chain and supply chain for agricultural products f. Agricultural trading institutions g. Demand and supply in agricultural trading systems h. Price formation in various types of agricultural commodity markets i. Government policy regarding agricultural trading systems
<p>17. <i>Recommended literature</i></p>	<p>Main References:</p> <ol style="list-style-type: none"> 1. Aksoy and Beghin, Global agricultural trade and developing countries, The International Bank for Reconstruction and Development / The World Bank. , 2005. 2. Armad, Sudiyono, Pemasaran Pertanian, UMM, 2004. 3. Asmarantaka, Ratna Winandi, Pemasaran Agribisnis (Agrimarketing), Departemen Agribisnis, FEB-IPB, 2013. 4. Irianto, H dan Widiyanti, E, Analisis value chain dan efisiensi pemasaran Agribisnis jamur kuping di kabupaten karanganyar, Journal SEPA , 9, 2, 2013. 5. Schrimper R, Economics of Agricultural Markets, Prentice Hall, New Jersey, 2001 6. Bambang Siswadi; Asnah; dan Dyanasari, Integrasi Pasar dan Transmisi Harga dalam Pasar Pertanian, Deepublish Yogyakarta, 2020. 7. Anindita, R. dan N. Baladina, Pemasaran Produk Pertanian. Edisi 1, ANDI Yogyakarta, 2017. 8. Azzaino, Pengantar Tataniaga. Pertanian, Departemen Ilmu-Ilmu. Sosial. Ekonomi. Pertanian, Fakultas Pertanian. IPB. Bogor. , 2011. 9. Dessie AB, et al, Analysis of Red Pepper Marketing: Evidence From Northwest Ethiopia, Journal of Economic Structures, 8,24, 2019. 10. Baye MR , Managerial Economics and Business Strategy. 7th Edition , McGraw-Hill, 2010 11. Koutsoyiannis A, Theory of Econometrics, An Introductory Exposition of Econometric Methods, Second Edition, Published in the United Kingdom by The Macmillan Press Ltd., 1977. <p>Supporting References:</p> <ol style="list-style-type: none"> 1. Relevant research results and scientific articles 2. Data from the government and other institutions/agencies 3. News from trusted media

AGRIBUSINESS MANAGEMENT

■ <i>Module Name</i>	Agribusiness Management
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092014
■ <i>Semester(s) in which the module is taught</i>	3
■ <i>Person(s) responsible for the module</i>	Acep Muhib (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Introduction to Agribusiness, Fundamental of Management
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Paper and Presentation 10%, Attitude 15%, Individual Task Structure 15%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students have professional leadership (CP2/S2) 2. Students have knowledge of agribusiness management, agricultural socio- economics, and the other related knowledge (CPL3/P1) 3. Students know the standard of agribusiness and food products (CPL5/P3) 4. Students have the ability to identify and analyze problems, potentials and prospects as well as recommend alternative decision-making in agribusiness development using both quantitative and qualitative methods (CPL6 /KK1)

■ *Module content*

1. Agribusiness management based on Islamic perspective: an Introduction
2. The environment of agribusiness management
3. Planning and decision making in agribusiness
4. Organizing in agribusiness
5. Leading in agribusiness
6. Controlling in agribusiness

■ *Recommended literatures*

1. Fleet, D.V., Fleet, E. V. dan Seperich, G. 2014. Agribusiness: Principle of Management. NY- US : Delmar-Cengage Learning.
2. Barnard, F., Akridge, J., Dooley, F dan Foltz, J. 2012. Agribusiness Management. NY-US : Routledge
3. Downey W. D dan Erickson, S.P. 2004. Manajemen Agribisnis. Jakarta : PT. Erlangga
4. Pandey, M and Tewari D. 2010. The Agribusiness Book: A Marketing and value-chain perspective. Lucknow-India: IBDC Publishers

SEMESTER 4

PLANT PROTECTION

■ <i>Module Name</i>	PLANT PROTECTION
■ <i>Module level, if applicable</i>	Beginner (Foundational Courses)
■ <i>Module identification code</i>	FST6092027
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Titik Inayah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by a short discussion. Students were divided into five groups of structured assignments, and each group was assigned to work on a specific topic relevant to the lecture.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 83.3 hours : 30 h = 2,78 ECTS
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2,78 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Plant Science and Fundamentals of Agronomy
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The Plant Protection course is a compulsory subject for agribusiness students, which forms the basis of knowledge in plant cultivation which is included in the upstream agribusiness subsystem. This course covers the definition, scope, objectives, and problems of plant protection; Plant Destruction Organisms (OPT); plant diseases, pathogenesis, and epidemiological processes of diseases in plants; ways of diagnosing plant diseases, types of pesticides and their uses and integrated control of weeds, pests, and plant diseases. After taking this course, students are expected to be able to apply the basic principles of plant protection based on government regulation No. 6 of 1995 concerning Plant Protection and Government Regulation No. 7 of 1973 concerning Control of Distribution, Storage, and Use of Pesticide</p>

■ *Module content*

1. Introduction to plant protection
 - a. History of plant protection
 - b. Scope and purpose of plant protection
 - c. Plant protection issues
2. Plant Pest Organisms (Pest, Disease, and Weed)
3. Types of pests (Rodents, Insect, Aves, and Mammals)
4. Types of weed (Grasses, Sedges, Broad leaves)
5. Factors that influence the existence of a pest
6. Factors that influence the presence of disease in plants
7. Major plant pathogens
8. Evaluation of the mid semester learning process
9. Plant Pathogenesis
10. Plant disease epidemiology
11. Diagnosis of plant disease
12. Chemical pesticides and their impact on the environment
13. Organic pesticides, their advantages, and disadvantages
14. Weed management and controls techniques
15. Integrated pest and disease management techniques
16. Evaluation of the semester learning process

■ *Recommended literature*

1. Government Regulation No 6 of 1995 concerning Plant Protection
2. Government Regulation No 7 of 1973 concerning Control over the Distribution, Storage, and Use of Pesticides.
3. Triharso. 1996. Fundamentals of Plant Protection. Gadjah Mada University Press. 362hal
4. Kerruish dan Unger. 2010. Plant Protection 1, Pests, Diseases, Weeds 4th edition
5. Kerruish. 1997. Plant Protection 3 Selected Ornamentals, Fruit and Vegetables 2nd edition.
6. Kerruish dan Unger. 2006. Plant Protection 4 How to Diagnose Plant Problems (Ebook)
7. Up-to-date scientific journals that are relevant and open source based.

PRACTICE OF PLANT PROTECTION

■ <i>Module Name</i>	PRACTICAL OF PLANT PROTECTION
■ <i>Module level, if applicable</i>	Beginner (Foundational Courses)
■ <i>Module identification code</i>	FST6092127
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Titik Inayah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The lecturer delivers course topics before the practicum begins. Students are divided into five groups, each assigned to practice according to the subject every week. Then students are given the task of making a lab report.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Practical: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 82 hours : 30 h = 2,73 ECTS
■ <i>Credit points</i>	1 Credit Hours (0-3) □ 2,73 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this practical • 100% attendance in practical
■ <i>Recommended prerequisites</i>	Plant Protection
■ <i>Media employed</i>	Practical guidebook
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The Plant Protection Practicum Course is one of the compulsory subjects for agribusiness students taking the Plant Protection course as basic knowledge in plant protection. This course consists of several activities, which include identifying pests, diagnosing plant diseases, differentiating formulations and types of pesticides, making organic pesticides, using the right and correct pesticides, and applying OPT control techniques integrated. After taking this course, students are expected to be able to apply the basic principles of plant protection based on Government Regulation no. 6 of 1995 concerning Plant Protection and Government Regulation no. 7 of 1973 concerning Control of Distribution, Storage, and Use of Pesticide</p>

■ *Module content*

1. Identification of Pests
2. Identification of Weeds
3. Making Herbarium
4. Identification and diagnosis of disease
5. Introduction of pesticide formulations and types
6. Making pest traps
7. Production of organic (vegetable) pesticides
8. Application of pesticides
9. Integrated weed, pest, and disease control techniques

■ *Recommended literature*

Sharia Financing and Investment

1. <i>Module Name</i>	Sharia Financing and Investment
2. <i>Module level, if applicable</i>	Intermediate
3. <i>Module identification code</i>	FEB6085008
4. <i>Semester(s) in which the module is taught</i>	4
5. <i>Person(s) responsible for the module</i>	Dewi Rohma Wati (Coordinator)
6. <i>Language</i>	Indonesian + English
7. <i>Relation to curriculum</i>	Compulsory Course for Undergraduate Program in Agribusiness
8. <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures enriched with relevant examples and followed by short discussions. Students are divided into ten groups of structured assignments. Each group was assigned to work on a topic pertinent to the lecture and present it in class.
9. <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: Lecture 2 h x 2 times = 4 h; Total = 85.3 hours
10. <i>Credit points</i>	3 Credit Hours (3-0) = 2.66 ECTS
11. <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
12. <i>Recommended prerequisites</i>	Accounting, Agribusiness Management
13. <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
14. <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Presence 10%, Structured assignment (individual & group) 30%
15. <i>Intended learning outcomes</i>	This course discusses important business/business financing concepts in the agricultural sector (agribusiness). Topics discussed are financial institutions' types and functions, financing policies, financial business in the farming sector, and business investment with sharia concepts.
16. <i>Module content</i>	<p><u>Lecture (Classwork)</u></p> <ol style="list-style-type: none"> a. Characteristics of the agricultural sector and agribusiness businesses in Indonesia, classification of agribusiness businesses, b. The role of Sharia financing and investment in agribusiness, c. policies related to Sharia financing and investment systems for agribusiness, d. The sources and financial decisions, both internal and external, e. The type of financial services institution (bank and non-bank, conventional and sharia),

	<ul style="list-style-type: none"> f. Sharia investment, its concept and objectives in Islam, as well as its principles and types, g. Investing in the money market, capital market, and Sharia mutual funds, h. Productive use of zakat and waqf as sharia investment for the agricultural sector i. Financial planning and control (financial reports, budgeting, asset management, financing needs), j. The implementation of sharia business for agribusiness
<p>17. <i>Recommended literature</i></p>	<p>Main References:</p> <ol style="list-style-type: none"> 1. Obst, W. J, R. Graham, G. Christie. 2007. <i>Financial Management for Agribusiness</i>. Melbourne: LandLinks 2. Hearth, HMWA. 2018. <i>Microfinance: Theory and Practice</i>. Colombo: Godage & Brothers (Pvt). 3. Jugale, VB. 1991. <i>Theories of Agricultural Finance</i>. New Delhi: Atlantic Publishers and Distributors. 4. Irwantoro. 2017. <i>Pengembangan Lembaga Keuangan Non Bank Bagi Usaha Perempuan</i>. Sidoarjo: Zifatama. 5. Syahputra, Angga. 2020. <i>Investasi Syariah (Konsep dan Ragam Jenis Investasi Sesuai Syariah Islam)</i>. Amara Books : Yogyakarta. 6. Nurnasrina & A. Putra. 2018. <i>Manajemen Pembiayaan Bank Syariah</i>. Cahaya Firdaus : Pekanbaru. 7. Rahmawati, N. 2015. <i>Manajemen Investasi Syariah</i>. IAIN Mataram : Mataram. 8. Ernawati, N & R.T. Handayani. 2021. <i>Manajemen Keuangan dan Investasi</i>. Badan Penerbit Universitas Muria Kudus: Kudus. <p>Supporting References:</p> <ol style="list-style-type: none"> 9. De Aghion, B A dan Morduch J. 2005. <i>The Economics of Microfinance</i>. London: MIT Press. 10. Mpalasi, Panga. 2020. <i>Diversifikasi Usaha Tani dan Investasi</i>. CV. Kanaka Media: Surabaya. 11. Ikatan Bankir Indonesia. 2014. <i>Mengelola Kredit secara Sehat</i>. Jakarta : Gramedia Pustaka Utama. 12. Ikatan Bankir Indonesia. 2015. <i>Bisnis Kredit Perbankan</i>. Jakarta : Gramedia Pustaka Utama. 13. Sarma, M dan Pais, J. 2008. <i>Financial Inclusion and Development: A Cross Country Analysis</i>. <p>Another Relevant References:</p> <ol style="list-style-type: none"> 14. National and international research results and scientific articles 15. Legislation and other regulations relevant to lecture material

SUPPLY CHAIN MANAGEMENT

■ <i>Module Name</i>	Supply Chain Management
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	FEB6081333
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Zulmaneri Manir (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 min = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Introduction to Agribusiness, Agribusiness Management, Fundamentals of Production and Operations Management
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 20%, Final exam 20%, Structured Task 40%, Present 5%, Attitude 15%
■ <i>Intended learning outcomes</i>	
<ol style="list-style-type: none"> 1. Students are able to have professional leadership. 2. Students know agribusiness management, socioeconomics, agriculture, agriculture and related sciences. 3. Students are able to know the standards of agricultural and food business. 4. Students are able to identify, and analyze various potential problems and prospects and recommend alternative decision-making in agribusiness development both with quantitative and qualitative methods. 5. Students are able to identify, process, analyze and utilize agribusiness data. 6. Students demonstrate intellectual independence in agribusiness planning and problem solving. 	

■ *Module content*

1. The concept of agricultural commerce
2. Functions of commerce
3. Marketing agencies and channels
4. Demand for agricultural products
5. Agricultural yield supply
6. Market structure of agricultural products
7. Prices of agricultural products
8. Margins, costs, and commerce efficiency
9. Agricultural product supply chain
10. Potential for commercial governance improvement

■ *Recommended literatures*

Main:

1. Basics of Operation and Supply Chain Management Drs Amin Widjaya Tunggal Ak, CPA, MBA 2011
2. Operations and Supply Chain Management, 2nd Edition David A. Collier, James R. Evans 2019
3. Design and Analysis of Closed-Loop Supply Chain Networks Subramanian Pazhani <https://www.routledge.com/Emergi%20ng-Operations-ResearchMethodologies-and-Applications/book-series/CRCEORMA>
4. Porter's Competitive Ability 1983 (value chain analysis chapter)
5. Value Chains in favor of Farmers 2012

Supporting Books:

6. Halal Supply Chain Journals and Halal Production Process Assurance SystemBPJPH Ministry of Religion 2022
7. Complete Guide to Mastering SPSS 16, Fishbone. Forecasting Analysis (helpsanalyze data with software)

FARM MANAGEMENT

■ <i>Module Name</i>	Farm Management
■ <i>Module level, if applicable</i>	Intermediate
■ <i>Module identification code</i>	FST6092009
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Lilis Imamah Ichdayati (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into seven groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) □ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	All of study course in <i>Semester 1 - 3</i>
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>This course is an integration course from all agribusiness courses and is a guideline for students completing their final project as a condition for obtaining a Bachelor of Agriculture degree. In this course students are trained to improve their abilities in the field of research and community service, so it is expected that the output of research and community service reflects their scientific field, namely agribusiness.</p>

■ *Module content*

1. Definition of farming, agricultural science, and classification of farming
 - a. Why farm
 - b. Farming: an understanding
 - c. Farming and Agribusiness
 - d. Agricultural Science
 - e. Farm Classification
2. Identify the trinity of farmers, land, crops, fish and livestock
 - a. Farmer
 - b. Farmer's Dilemma
 - c. Soil
 - d. Plant-Farm-Fish
 - e. Farmer-Land and Water
3. Identify and analyze the main elements of farming
 - a. Soil
 - b. Workforce
 - c. Capital
 - d. Management as an element2 of the main farming
4. Determine and analyze the factors that affect the success of farming
 - a. Internal factors of farming
 - b. External factors of farming
5. Understand the development of farming in Indonesia until the era of digitalization
 - a. Post-independence farming
 - b. ORBA mas farming
 - c. Farming after the Reformation period
 - d. Farming during the pandemic and digitalization
6. Understand farm development in various sectors and commodities that affect the success of farming
 - a. The purpose of agricultural development
 - b. How to develop a farm
 - c. Scope of farm development
 - d. Modernization of agricultural alsintan
7. **TAKE TO THE FIELD TO TAKE DATA** (collect primary data with farmer respondents)
Theme: Agricultural Commodity Production
 - a. Division of groups according to agricultural commodities
 - b. Set up a group questionnaire
 - c. Visiting the countryside meeting with respondent farmers
 - d. Collecting data by interview method with respondent farmers

8. Able to understand and implement agricultural research
 - a. Understanding the importance of farming
 - b. Farm research and analysis

9. Able to make farm bookkeeping
 - a. Basic and types of farm bookkeeping
 - b. Bookkeeping as the basis of reorganization
 - c. Bookkeeping as a basis for policy formulation
10. Able to analyze agricultural economics
 - a. Principles 2 of the economics of agricultural production
 - b. Factors affecting agricultural production
 - c. Production cost
 - d. Agricultural commodity trading

11. Able to compile and analyze the cost structure and income of farmers in Indonesia
 - a. Cost Structure of farm production
 - b. Farm income structure
 - c. Income distribution of farming families
 - d. Application of bookkeeping and farm analysis
 - e. Shared Intercropping Fees
 - f. Farm costs and their contribution to capital formation

12. Collect primary data from farmer respondents
 Theme: Agricultural Commodity Farm Bookkeeping
 - a. Division of groups according to agricultural commodities
 - b. Set up a group questionnaire
 - c. Visiting the countryside meeting with respondent farmers
 - d. Collecting data by interview method with respondent farmers

13. Understand and be able to apply farm planning
 - a. Mapping of farmers per geographical area of production centers
 - b. Farm budget method
 - c. Farm planning and financing
 - d. Linear planning of programming for farming
 - e. Solving the use of simplec methods
 - f. Farm diversification planning
 - g. Digitalized farm planning,

■ *Recommended literatures*

Main:

1. Agricultural Science, Fadholi Hernanto, Self-Help Spreader, Jakarta.1995.
2. Agricultural Science, Soekartawi, A.Suharjo, 1986
3. Soekartawi. 2006. *Farm Analysis*. UI-Press: Jakarta
4. Agricultural Science, Agustina Sinta, UB Press, Malang. 2011
5. Suratiyah, K. 2015. *Farm Science Revised Edition*. Self-Help Spreaders: Jakarta

Supporting

1. Nurmalina, R., T. Sarianti, A. Karyadi. 2017. *Business Feasibility Study*. IPB Press: Bogor
2. Omar, Hussein. 2015. *Business Feasibility Study*. 3rd edition. Gramedia MainLibrary: Jakarta
3. Padangaran, Job. 2013. *Quantitative Analysis of Agricultural Enterprise Financing*.
IPB Press: Bogor
4. Cashmere. 2016. *Financial Statement Analysis*. Raja Grafindo Persada: Jakarta
5. Arifin. 2015. *Introduction to Agricultural Economics*. CV. Mujahid Press: Bandung
6. Boediono. 2014. *Microeconomics*. BPF: Yogyakarta

Industrial Microbiology

■ <i>Module Name</i>	Industrial Microbiology
■ <i>Module level, if applicable</i>	Intermediate
■ <i>Module identification code</i>	FST6095233
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Agustina Senjayani
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
■ <i>Credit points</i>	3 Credit Hours (2-0) □ 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation, flipped classroom
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The course provides an overview of the principles of utilizing microorganism activities and processes (fermentation) in agro-industry and its various applications to solve food and non-food problems and increase added value.</p> <p>In this course students are trained to master the principles of industrial microbiology to apply it in agro-industry in solving various problems (food and non-food) and increasing the competitiveness of products (agricultural products) through microorganism utilization</p>

■ *Module content*

Lecture (Class work)

1. Introduction to Industrial Microbiology
 - a. Scope of industrial microbiology, its position among other branches (food, medical, and environmental microbiology) and its role in relation to agribusiness (downstream subsystem)
 - b. Microbes, domain, characteristics and roles and utilization in agro-industry
2. Nutrition, growth and metabolism of microbes
 - a. Source of energy
 - b. Microbial nutrition categories
 - c. Microbial growth phase
 - d. Factors affecting microbial growth
 - e. Microbial metabolism
3. Metabolic pathways of industrial microbial biosynthetic product
 - a. Nature of the Metabolic Pathways
 - b. Primary and Secondary Metabolites as products of industrial microbiology
4. Media and sources of microbial nutrition in the microbial industry
 - a. Media and Nutrition in the microbial industry
 - b. Basic nutritional requirements for industrial microbial media
 - c. Criteria for selecting raw materials
 - d. General raw materials, growth factors, water, sources of carbohydrates and proteins in industrial microbes
 - e. Utilization of plant waste (starch, cellulose, hemicellulose, lignin)
5. Fermenter: operation, extraction and sterilization of industrial microbial products)
 - a. Definition of fermentor/ bioreactor
 - b. Selection of bioreactors
 - c. Type of Bioreactor
 - d. Agitation and Aeration
6. Solid Substrate Fermentation
 - a. Scope of SSF
 - b. Application of SSF
 - c. Pros and Cons/limitation
7. Liquid Substrate Fermentation
 - a. Scope of LSF
 - b. Application of LSF
 - c. Pros and Cons/limitation
8. Production of Functional Compounds
 - a. Fermentation principles for the production of Functional Compounds
 - b. Production of functional compounds from various sources: fermented milk, meat, grains, seaweed
9. Probiotics
 - a. Definition, sources, types, requirements, therapeutic effects of probiotics
 - b. Various examples of commercial probiotic products

10. Bioethanol
 - a. Advantages of bioethanol
 - b. Raw material for bioethanol
 - c. The principle of bioethanol production
 - d. Development of Technology
 - e. Bioethanol Production Process

11. Single Cell Protein
 - a. Definition of SCP
 - b. Production of SCP
 - c. Safety Aspect and consumer acceptance of SSP
 - d. SCP-producing microorganisms (algae, fungi, bacteria)
 - e. Economic aspects of the SCP

12. Inoculum Production
 - a. Bread yeast inoculum production;
 - b. Production of rhizobacterial inoculums
 - c. Production of arbuscular mycorrhizal fungi inoculum

13. Biosurfactant Production
 - a. Microorganisms producing biosurfactants
 - b. Classification of biosurfactants
 - c. Biosurfactant Production Process
 - d. Method of Analysis
 - e. Benefits

14. Pigmen Production
 - a. Fermentation Process
 - b. Pigment Production (liquid, solid fermentation)
 - c. Pigment Characteristics of Microorganism

■ *Recommended literatures*

1. Mikrobiologi Industri Pertanian. Nur Hidayat, dkk. 2018, UB Press
2. Modern Industrial Microbiology and Biotechnology. Second Ed. Okafor N and OkekeBC. 2017. CRC Press Taylor & Francis Group, Boca Raton
3. Mikrobiologi Pangan. Winiati P Rahayu dan C.C. Nurwitri. 2012. IPB Press, Bogor.
4. Modern Food Microbiology seventh edition. James M. Jay, Martin J Loessner, and David A Golden. 2005. Springers Science, USA
5. Journals

Basic Chemistry

■ <i>Module Name</i>	Basic Chemistry
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	FST6096201
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Eny Dwiningsih (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23 h 20 m • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 83 hours 20 minutes
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2,8 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Attitude 5%, Structured assignment 25%, Midterm exam 30%, Final exam 30%, Present 10%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Mahasiswa memiliki pengetahuan tentang manajemen agribisnis, sosial ekonomi pertanian dan pengetahuan terkait (Students have knowledge of agribusiness management, agricultural socio-economics and other related knowledge). 2. Mahasiswa mengetahui standar produk agribisnis dan pangan (Students know the standard of agribusiness and food products). 3. Mahasiswa memiliki kemampuan mengidentifikasi dan menganalisis berbagai masalah, potensi dan prospek serta merekomendasikan alternatif pengambilan keputusan dalam pengembangan agribisnis baik dengan metode kuantitatif dan kualitatif (Students have the ability to identify and analyze problems, potentials and prospects as well as recommend alternative decision-making in agribusiness development using both quantitative and qualitative methods).

■ *Module content*

1. Nutritional Needs and Food Problems
2. water
3. Carbohydrate
4. Protein
5. Fats and Oils
6. Vitamin
7. Mineral
8. Foodstuff Color
9. Taste of food
10. Food Additives
11. Toxic Compounds and Contaminants

■ *Recommended literatures*

Main literatures:

1. CHEMICAL, FOOD AND NUTRITION. 2004. F.G WINARNO.
2. Basic Chemistry. Edisi 3. 2003. Raymond Chang.
3. Food Chemistry 4th Revised and Extended Edition. 2009. Grosch, et al. Springer.
4. Deman, J., 1999, Principles of Food Chemistry 3rd ed , Aspen.
5. FENNEMA'S FOOD CHEMISTRY FIFTH EDITION . edited by Srinivasan Damodaran, Kirk L. Parkin. 2017. CRC Press.

Supporting literatures:

1. Related journals

AGROCLIMATOLOGY

■ <i>Module Name</i>	Agroclimatology
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	FST6092031
■ <i>Semester(s) in which the module is taught</i>	4
■ <i>Person(s) responsible for the module</i>	Armaeni Dwi Humaerah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into six groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23 h 20 m • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 83 hours 20 minutes
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2,8 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Fundamentals of Agronomy
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Attitude 15%, Structured assignment 15%, Midterm exam 30%, Final exam 30%, Paper and Presentation 10%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students have an understanding of the meaning and scope of agroclimatology and can utilize weather and climate data in managing plants and their environment to obtain maximum production. 2. Students are able to carry out climate classification using various classification methods
■ <i>Module content</i>	

1. Introduction, the meaning, scope and Al-Qur'an insights about climate
2. Atmosphere
3. Solar radiation
4. Temperature and humidity
5. Air pressure and wind
6. Cloud and precipitation
7. Evapotranspiration
8. Climate classification
9. The Climate of Indonesia
10. Water balance
11. Weather/climate modification
12. Weather anomaly
13. Climate change and its impact on agriculture

■ *Recommended literatures*

1. Handoko. 1994. *Klimatologi Dasar*. Dunia Pustaka Jaya, Jakarta.
2. Rusmayadi, 2012. *Pertanian dalam Bayang-Bayang Iklim Ekstrim*. P3AI Universitas Lambung Mangkurat, Banjarmasin.
3. Rusmayadi, 2013. *Iklim Mikro, Teori, pengukuran dan analisisnya*. P3AI Universitas Lambung Mangkurat, Banjarmasin.
4. Sabaruddin, L. 2015. *Agroklimatologi*.
5. Soemeinabudhy, Sukartono dan Silawibawa. 2006. *Agroklimatologi*. UPT Mataram University Press.
6. Tjasyono, Bayong. 1999. *Klimatologi Terapan*. Pionir Jaya, Bandung.

PRACTICE OF AGROCLIMATOLOGY

■ <i>Module Name</i>	Practice of Agroclimatology
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092131
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Armaeni Dwi Humaerah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The courses are delivered through experiment learning projects which are enriched with relevant feedback and supervision followed by discussion. Students are divided into four groups of action learning projects. Each group assigned to work on experimental specific topic related to the lectures.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Practical: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 82 hours : 30 h = 2,73 ECTS
● <i>Credit points</i>	1 Credit Hours (0-3) ≈ 2.73 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Fundamentals of Agronomy
■ <i>Media employed</i>	Practical Guidebook
■ <i>Forms of assessment</i>	Practical assignment 25%, Skills and Attitude 15%, Mid-term test 30%, Final test 30%.
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students are able to cultivate plants according to climatic conditions 2. Students are able to modify the microclimate according to plant growth requirements. 3. Students are able to carry out evapotranspiration estimation and land water balance analysis.

■ *Module content*

Lecture (Class work)

1. Land Preparation
2. Basic fertilization and measurement of climate elements (micro) on cultivated land
3. Planting
4. Modify the microclimate through surface changes by installing mulch
5. Measurement of microclimate elements and soil acidity on surface modified by mulch application
6. Measurement of plant growth parameter on different mulch
7. Fertilization
8. Estimation of evapotranspiration
9. Water balance calculation
10. Harvest and measurement of yields parameter

■ *Recommended literatures*

1. Handoko. 1994. *Klimatologi Dasar*. Dunia Pustaka Jaya, Jakarta,
2. Rusmayadi, 2012. *Pertanian dalam Bayang-Bayang Iklim Ekstrim*. P3AI Universitas Lambung Mangkurat, Banjarmasin
3. Rusmayadi, 2013. *Iklim Mikro, Teori, pengukuran dan analisisnya*. P3AI Universitas Lambung Mangkurat, Banjarmasin.
4. Sabaruddin, L. 2015. *Agroklimatologi*. CV. Alfabeta, Jakarta
5. Soemeinabudhy, Sukartono dan Silawibawa. 2006. *Agroklimatologi*. UPT Mataram University Press.
6. Tjasyono, Bayong. 1999. *Klimatologi Terapan*. Pionir Jaya, Bandung.

SEMESTER 5

Risk Management

■ <i>Module Name</i>	Risk Management
■ <i>Module level, if applicable</i>	Advanced
■ <i>Module identification code</i>	FEB6081306
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Akhmad Mahbubi (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
■ <i>Credit points</i>	3 Credit Hours (3-0) □ 2.66 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	An Introduction Of Agribusiness, The Basic of Management
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media withPower Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Structured assignment40%
■ <i>Intended learning outcomes</i>	<p>Risk is very closely related to the occurrence of irregularities that cause losses. Risks a lot used in the context of decision making, risk is defined as the chance that an event will occur bad as a result of an action. The higher the degree of uncertainty of an event, the higher the risk caused by that decision. In the world of agribusiness, this condition is always there and demanding attention of the perpetrator or management to manage it properly through risk management.</p>

■ *Module content*

Lecture (Class work)

1. Risk on Islamic perspective
 - a. The arguments regarding risk in Islam
 - b. Risk Management since the Prophets
 - c. Halal Risk and sustainability In the Holy Quran
2. The concept of agribusiness risk
 - a. Risk
 - b. Agribusiness
 - c. Risk in agribusiness
3. The type of agribusiness risk regarding perspective
 - a. reason,
 - b. consequences,
 - c. events,
 - d. activities
 - e. external factors
4. The concept, benefits, process and instruments of agribusiness risk management
 - a. The concept of agribusiness risk management
 - b. The benefit of agribusiness risk management
 - c. The process of agribusiness risk management
 - d. The instrument of agribusiness risk management
5. The case study of agribusiness risk management (research review)
 - a. Identification
 - b. Measurement
 - c. Mapping
 - d. Strategy
6. The case study of agribusiness risk management (field review)
 - a. Identification
 - b. Measurement
 - c. Mapping
 - d. Strategy
7. Halal risk mitigation in the beef supply chain
 - a. Identification
 - b. Measurement
 - c. Mapping
 - d. Strategy

8. Halal risk mitigation in the beef supply chain

- a. Identification
- b. Measurement
- c. Mapping
- d. Strategy

9. Risk management based on farm

- a. Climart smart agriculture,
- b. Diversification
- c. Asset based strategy and income

10. Risk management based on financial

- a. Insurance
- b. Micro finance

11. Risk management based on market

- a. Contract farming
- b. Future Market
- c. warehouse receipt

12. Risk management based on government program

- a. Public food grain reserve
- b. Disaster assistance program
- c. Social protection

13. Risk management ISO 31.000 : 2018 (Introduction)

14. Risk management ISO 31.000 : 2018 (advanced)

■ *Recommended literatures*

Major references:

1. Wastra, A.R dan Mahbubi, A. 2013. Risiko Agribisnis, UIN Jakarta press
 2. Gunjal, K. 2016. Agricultural Risk Managment Tools, PARM.
 3. Dewi Hanggraeni, 2010, Pengelolaan Risiko Usaha, Universitas Indonesia, Jakarta
 4. Irham Fahmi, 2010, Manajemen Risiko, Teori, Kasus dan Solusi, Alfabeta, Bandung
 5. Tony Pramana, 2011, Manajemen Risiko Bisnis, CV. Sinar Ilmu Publishing, Jakarta
- Major reference
1. Maman, U, Mahbubi, A dan Jie F. (2018). Halal risk mitigation in the Australian - Indonesian red meat supply chain. *Journal of Islamic Marketing*, Vol. 9 No. 1 pp. 60 - 79

Agricultural Development

■ <i>Module Name</i>	Agricultural Development
■ <i>Module level, if applicable</i>	Intermediate
■ <i>Module identification code</i>	FST6092010
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Rahmi Purnomowati
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The courses are delivered through lectures enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 weeks = 35 h • Structured activities: 3 h x 14 weeks = 42 h • Independent study: 3 h x 14 weeks = 42 h • Exam: (3x50 min) x 2 times = 5 h; • Total = 124 hours: 30 hours =4,13 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) □ 4,13 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Introduction on Economics; Introduction on Agribusiness
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV mediawith Power Point presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The course provides an overview on the dimensions of agricultural development planning and various government policies used in agricultural development planning. Students are expected to be able to create agricultural development plans, to carry out regional and national agricultural development plans and to establish communication with various stakeholders for agricultural development in the context of formulating agricultural development plans after take this course.</p>

■ *Module content*

Lecture (Class work)

1. Agricultural Development Planning and its scope
2. System and Process of Agricultural Development Planning as part of the National Development Planning
3. Commodity-based Agricultural Development Planning
4. Agricultural Development in the Regions
5. Agricultural development planning across sectoral
6. Modern and Ecological Dimensional Agricultural Planning Principles
7. Sustainable Agriculture development planning
8. preparation of the Agricultural Extension Program as part of Agricultural Development Planning
9. Implementation of Integrated Agricultural System Planning
10. Agricultural Financing and Partnership Patterns as an Important Part in Preparing Agricultural Development Planning
11. Government Policy in Agricultural Development
12. Integrated agricultural practices are carried out in various countries and can be implemented in the preparation of agricultural development plans in Indonesia

■ *Recommended literatures*

1. Ellis, F. (1992). *Agricultural Policies in Developing Countries*. New York: Cambridge University Press.
2. Jiaravanon, S. (2007). *Masa Depan Agribisnis Indonesia: Prespektif Seorang Praktisi*. Orasi Ilmiah.
3. Pearson, S., Gotsch, C., Bahri, S. (2004). *Application of the Policy Analysis Matrix in Indonesian Agriculture*. Jakarta: Yayasan Obor.
4. Waterston, A. (1965). *Development Planning Lessons of Experience*. Baltimore: The John Hopkins University Press.
5. Various journals

Agro-Product Processing Technology/TPHP

■ <i>Module Name</i>	Agro-Product Processing Technology/TPHP
■ <i>Module level, if applicable</i>	Intermediate
■ <i>Module identification code</i>	FST6092032
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Agustina Senjayani
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 weeks = 23.3 h • Structured activities: 2 h x 14 weeks = 28 h • Independent study: 2 h x 14 weeks = 28 h • Exam: (2x50 min) x 2 times = 3,33 h; • Total = 83.3 hours: 30 hours =2,76 ECTS
■ <i>Credit points</i>	2 Credit Hours (2-0) □ 2,76 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Introduction to Agro-Product Materials/PBA (Code: FST6092022)
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation, flipped classroom
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The course provides an overview of the principles of post-harvest handling; factors of deterioration and preparation of agricultural products (food and non-food) for processing, various technologies in maintaining the "good" factors of food, increasing, and extending the use period; various technology applied to fulfill consumers desires; standards must be met, and proper packaging must be applied.</p>

■ *Module content*

Lecture (Class work)

1. Postharvest handling and preparation for processing
 - a. Definition and scope of technology
 - b. Sources and types of plant and animal-based food materials
 - c. Characteristics of agricultural products
 - d. Deterioration and material quality deviation
2. Raw material properties
 - a. Raw material properties
 - b. Functional Properties
 - c. Raw material Specifications
 - d. Storage and Transportation of Raw material
 - e. Cleaning, Sorting and Grading
3. Thermal Processing and Preservation Techniques
 - a. Thermal processing: definition, principles, scope, type, process, equipment, Application (thermisation, pasteurization, sterilization)
 - b. Preservation techniques (sugar, salt, spices); food additives
4. Freezing, Evaporation and Dehydration
 - a. Refrigeration Methods and Equipment; effects on quality
 - b. Evaporation (Concentration, Condensing): general principles, process, equipment, application
 - c. Dehydration (Drying): process, equipment, application
5. Baking, Extrusion, Frying
 - a. The Baking Process, fermentation, quality; Gluten polymer Structure and it's alternative The Modified Cassava (Mocaf)
 - b. The Extrusion Process: general principles, advantages, equipment, application
 - c. Frying: general principles, equipment, application, oil absorption
6. Irradiation and Ultrasound Technology
 - a. Irradiation: principles, effects, equipment, control and dosimetry, safety aspects
 - b. Power Ultrasound: definition, generation, system types, application
7. Safety in Food Processing
 - a. Safe Design, Food Safety Hazards, Total Food Safety
 - b. Prerequisite GMP Program, HACCP System
8. Process control and standardization
 - a. Measurement of Process Parameter; control system
 - b. SNI – ISO; National Quality infrastructure; Export Quality infrastructure
9. Processing Industry - **Food crops base**, aspects:
 - a. Downstream products
 - b. Type of industry
 - c. Challenges and opportunities,
 - d. Market and processing technology
 - e. Industrial policy
 - f. Export and import
10. Processing Industry - **Estate crops base**, aspects:
 - a. Downstream products
 - b. Type of industry
 - c. Challenges and opportunities,

- d. Market and processing technology
- e. Industrial policy
- f. Export and import

11. Processing Industry - **Dairy base**, aspects:

- a. Downstream products
- b. Type of industry
- c. Challenges and opportunities,
- d. Market and processing technology
- e. Industrial policy
- f. Export and import

12. Processing Industry - **Poultry Commodity base**, aspects:

- a. Downstream products
- b. Type of industry
- c. Challenges and opportunities,
- d. Market and processing technology
- e. Industrial policy
- f. Export and import

13. Processing Industry - **Fisheries Commodity base**, aspects:

- a. Downstream products
- b. Type of industry
- c. Challenges and opportunities,
- d. Market and processing technology
- e. Industrial policy
- f. Export and import

14. Package and Packaging

- a. Purpose of packaging
- b. Type of packaging
- c. Packaging safety
- d. Packaging technology
- e. Packaging industry: challenges, opportunities
- f. Standards and policies

■ *Recommended literatures*

1. Food Processing Handbook. James G Brennan. 2006. WILEY-VCH Verlag GmbH &Co. KGaA, Weinheim
2. Processing and Impact on Active Components in Food. 2015. Preedy V, Ed. ElsevierInc. London
3. Food Processing Technology, Principles and Practice. 2nd Edition. Fellows, P. 2000. Woodhead Publishing Limited and CRC Press LLC, Cambridge England
4. Food Preservation Techniques. Zeuthen P & Sorensen LB. Editor. 2003. Woodhead Publishing Limited and CRC Press LLC, Cambridge England
5. Keamanan Pangan. 2004. Winarno, FG. MBRIO Press
6. Freezing of fruits and vegetables: An agribusiness alternative for rural and semi- rural areas. Gustavo V BarbosaCanovas. 2005. Washington State University. USA.FAO. Roma
7. Teknologi Proses Pengolahan Pangan. 2008. Muhtadi TR. Dept. Ilmu dan TeknologiPangan. IPB
8. Journals

Practice of Agro-Product Processing Technology

■ <i>Module Name</i>	Practice of Agro-Product Processing Technology/ (Praktikum TPHP)
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FST6092033
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Agustina Senjayani
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The courses are delivered through experimental learning projects which are enriched with relevant feedback and supervision followed by discussion. Students are divided into five groups of action learning projects. Each group assigned to work on experimental specific topic related to the lectures and presented the experiment result in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Experimental learning in laboratory: (2 x 50 min)x 14 weeks = 23,3 h • Structured Assignment: 2 h x 14 weeks = 28 h • Independent study: 2 h x 14 weeks = 28 h • Exam: (2 x 50 min)x 2 times = 3,33 h; • Total = 82,67 hours: 30 hours =2,76 ECTS
■ <i>Credit points</i>	1 Credit Hours (0 – 1) □ 2,76 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • 100% attendance in experimental laboratory and structured task
■ <i>Recommended prerequisites</i>	Introduction to Agro-Product Materials/PBA (Code: FST6092022) Agro-Product Processing Technology/TPHP (Code: FST6092033)
■ <i>Media employed</i>	Experimental Learning projects in Laboratory using Lab. Equipment; classical teaching tools using whiteboard and marker for supervision and feedback; projector, LCD and TV media with Power Point presentation for project presentation
■ <i>Forms of assessment</i>	Midterm exam 25%, Final exam 25%, Present 10%, Structured assignment 40%
■ <i>Intended learning outcomes</i>	<p>The course equips students with practical skills to utilize the principles of processing technology in maintaining the "good" factors of agricultural products, improving them, extending their use life, and technology to fulfill either consumer desires, safety standards as well as the right packaging design. Delivered through experimental learning, several techniques and processing methods studied include: processing with sugar, salt, fermentation, food additives; thermal processing (blanching, pasteurization), chilling, freezing, baking, drying, packaging observation and packaging design.</p>

■ *Module content*

Experimental Learning (Lab work)

1. Laboratory Protocol and report
 - a. Principles of conducting Lab Work
 - b. Lab Safety Rules
 - c. Lab Notebook and report format
 - d. Writing and Presenting Experimental report
2. Preservation techniques using sugar, salt, and fermentation processes
 - a. Tropical fruit jam processing
 - b. Pickle processing
 - c. Fermentation (tempe, tape, yogurt)
3. Thermal Processing
 - a. Application of thermal processing (blanching, pasteurization, refrigeration) combined with food additives on Clarified Juice processing
 - b. Sensory Affective testing and analysis
4. Evaporation and Dehydration
 - a. Spices drying
 - b. Fruit drying
5. Refrigeration
 - a. Application of chilling, aging and refrigeration on ice cream making
 - b. Sensory Affective Testing and Analysis
6. Baking
 - a. Gluten vs Modified cassava (Mocaf) on baking cake, cookies, pizza
 - b. Sensory Affective testing and analysis
7. Microwave for food sterilization
8. Field Study on food processing sanitation, hygiene and food additives
 - a. Food processing and manufacturer observation
 - b. GMP/SSOP/HACCP Evaluation
9. Food Packaging Observation
 - a. Materials
 - b. Product, distribution, environmental, and market needs and wants
 - c. Packaging Safety
 - d. Design
10. Food Packaging and Labels Design
 - a. Purpose of packaging
 - b. Materials and type of packaging
 - c. Packaging safety
 - d. Design Principles

■ *Recommended literatures*

1. *Food Processing Handbook*. James G Brennan. 2006. WILEY-VCH Verlag GmbH &

Co. KGaA, Weinheim

2. *Processing and Impact on Active Components in Food*. 2015. Preedy V, Ed. Elsevier Inc. London
3. *Food Processing Technology, Principles and Practice*. 2nd Edition. Fellows, P. 2000. Woodhead Publishing Limited and CRC Press LLC, Cambridge England
4. *Food Preservation Techniques*. Zeuthen P & Sorensen LB. Editor. 2003. Woodhead Publishing Limited and CRC Press LLC, Cambridge England
5. *Keamanan Pangan*. 2004. Winarno, FG. MBRIO Press
6. *Teknologi Proses Pengolahan Pangan*. 2008. Muhtadi TR. Dept. Ilmu dan Teknologi Pangan. IPB
7. *Pedoman Praktikum Teknologi Pengolahan Hasil Pertanian (TPHP) Semester 5 Agribisnis FST UIN Jakarta*. 2023. Penyusun Agustina Senjayani
8. Journals

INNOVATION ENGINEERING

▪ <i>Module Name</i>	Innovation Engineering
▪ <i>Module level, if applicable</i>	
▪ <i>Module identification code</i>	FST6098261
▪ <i>Semester(s) in which the module is taught</i>	5
▪ <i>Person(s) responsible for the module</i>	Nunuk Adiarni (Coordinator)
▪ <i>Language</i>	Indonesian
▪ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
▪ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
▪ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 85.3 hours
• <i>Credit points</i>	2 Credit Hours (2-0) ≈ 2.66 ECTS
▪ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
▪ <i>Recommended prerequisites</i>	All of study course in previous semester
▪ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TVmedia with Powerpoint presentation
▪ <i>Forms of assessment</i>	Present 5%, Attitude 15%, Assignment structured 40%, Mid-term test 20%, Final test 20%.
▪ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Able to apply religious, national and ethical values, especially in food. 2. Knowing agriculture and food business standards

▪ <i>Module content</i>

Lecture (Class work)

1. Engineering and the scope of engineering
2. The meaning of innovation, disruption, change, and the importance of innovation
3. The innovative person and the innovative enterprise
4. Driving and constraining forces of innovation
5. Driving innovation and Transformational leadership
6. Design thinking - empathy map
7. BMC to BMI
8. BMI planning
9. Driving execution

▪ *Recommended literatures*

Primary

1. Rhenald Kasali (2017) Disruption. Gramedia. Jakarta
2. Ade Febriansyah. Editor. (2010). Innovation. Prasetya Mulya. Jakarta
3. Osterwalder A & Pigneur Yves. 2012. Business Model Canvas. Elex Media K.Jakarta
4. Amit Raphael & Zott Christoph. 2010. Business Model Innovation. IESE BusinessSchool. Navarra
5. Chesbrough Henry. 2010. Business model Innovation. Elsevier.
6. REGULATION OF THE MINISTER OF RISET, TECHNOLOGY AND HIGHER EDUCATION OF THE REPUBLIC OF INDONESIA NUMBER 29 OF 2019 concerning Measurement and Determination of the level of innovation readiness
7. Law number 11 of 2019 concerning the National System of Science and Technology
8. Katsinov Manual - metres

Support

Materials from public sources on innovation figures

MARKETING MANAGEMENT

■ <i>Module Name</i>	Marketing Management
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FEB6081104
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Zulmaneri (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours
● <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Manajemen Agribisnis, Manajemen Rantai Pasok dan Manajemen Produksi dan Operasi
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Present 5%, Attitude 15%, Assignment structured 40%, Mid-term test 20%, Final test 20%.
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students are able to have professional leadership 2. Students are able to design research in the agribusiness sector 3. Students are able to understand agricultural and food business standards 4. Students are able to identify and analyze various potential problems and prospects as well as recommend alternative decision making in agribusiness development using both quantitative and qualitative methods 5. Students are able to identify, process, analyze and utilize agribusiness data 6. Students demonstrate intellectual independence in planning and solving agribusiness problems

■ *Module content*

Lecture (Class work)

1. Types of agribusiness commodity markets along with market characteristics and functions
2. Agribusiness Marketing System Concept and knowledge related to Marketing according to Islamic Sharia (like as Rasulullah)
3. Marketing Management Concepts; Kotler marketing strategy concept, product lifecycle concept in marketing.
4. Formulation of a complete Marketing Strategy: STP, and marketing mix (4P, 7P, 4C) which is adapted to the conditions of the commodity/product for which the Marketing plan is to be designed.
5. Concept of consumer behavior of agribusiness products
6. The concept of online marketing, e-commerce utilizes social media, marketplaces in promoting products.
7. Examining various marketing journals, consumer behavior journals, lifestyle trends among young people in consuming vegetable and fruit products.
8. Instructions for making a simple marketing research proposal for agribusiness products circulating on the market.
9. Marketing practices for agribusiness products are in accordance with marketing plans that have been designed independently.

■ *Recommended literatures*

Utama

1. Phillip Kotler and Kevin Lane Keller the latest Edition Marketing management Part. Chapters 3-4
2. Barnard Freddie, Akridge Jay, Dooley Frank and Foltz John. 2012. Agribusiness Management. fourth edition. Routledge. London
3. Freddy Rangkuti; latest edition (min 2007) Marketing Research
4. Agribusiness marketing in the book AGRIBUSINESS MANAGEMENT 4th Edition 2014
5. Consumer behavior (Prof Ujang Sumarwan)
6. Collection of research on consumer behavior and marketing analysis (Prof Ujang Sumarwan)

Penunjang

1. Marketing prospects for agribusiness products
2. Complete Guide to Mastering SEM, SPSS 16 (helps data analysis with software)
3. Various sources

Scientific Writing Technique

■ <i>Module Name</i>	Scientific Writing Technique
■ <i>Module level, if applicable</i>	Beginner (Foundational Courses)
■ <i>Module identification code</i>	FST6092037
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Titik Inayah
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The lecturer delivers course topics before the practicum begins. Students are divided into five groups, each assigned to practice according to the subject every week. Then students are given the task of making a scientific paper.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (2 x 50 min) x 14 wks = 23.3 h • Structured activities: 2 h x 14 wks = 28 h • Independent study: 2 h x 14 wks = 28 h • Exam: 2 h x 2 times = 4 h; • Total = 83.3 hours : 30 h = 2,78 ECTS
■ <i>Credit points</i>	1 Credit Hours (0-2) □ 2,78 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	All of the study courses in semesters 1-4
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV mediawith Powerpoint presentation
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<p>The Scientific Paper Writing Engineering course is one of the compulsory subjects for 5th-semester agribusiness students as a basis for writing scientific papers, especially theses. This course covers understanding the principles of writing scientific papers to discussing tips and tricks for writing original scientific papers and avoiding plagiarism. The benefit of this course is that it helps students produce writing that follows the rules of scientific writing.</p>

■ *Module content*

1. Definition and benefits of writing scientific papers
2. The principles of writing scientific papers
3. The steps in the preparation of scientific papers
4. Procedure for presenting quantitative and qualitative data
5. Procedure for writing citations in writing scientific papers
6. Reference writing style/format (bibliography)
7. Application reference manager (Mendeley, Zotero, etc.)
8. Anti-Plagiarism Application (Turnitin)
9. Writing Scientific Papers based on guidelines from the Agribusiness Study Program
10. Techniques for presenting scientific papers

■ *Recommended literature*

1. Anshori, D.S (2013). "Modul 1: Basic concepts of scientific writing. Pusbangprodik BPSDMPK PMP Kemdibud.
2. Rullyana, Gema. (2020, September 01). Mendeley Reference Management Tutorial. <https://www.academia.edu/37756376/Tutorial> Manajemen Referensi Mendeley
3. Sudjana, N. (2005). The demands of writing scientific papers. Papers, Thesis, Dissertation. Sinar Baru Algesindo

RESEARCH METHODOLOGY

■ <i>Module Name</i>	Research Methodology
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	UIN6000209
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Lilis Imamah Ichdayati (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (3-0) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Present 10%, Mid-Term Exam 30%, Final Exam 40%, Task/Response 20%
■ <i>Intended learning outcomes</i>	
After attending this course, students have the ability to Know, Understand, and Apply Research Methods in Producing Quality Research in the Field of Agribusiness.	

■ *Module content*

1. Thinking process in the search for scientific truth in research
2. The process of scientific thinking in research and the stages of research
3. Phenomena, concepts, constructs and variables in agribusiness research
4. The role of theory, library materials, and research results in compiling research design
5. Reasoning framework in agribusiness research
6. Research design based on qualitative and quantitative research nature
7. Types of variables and relationships between variables in agribusiness research
8. Population and sample in agribusiness research
9. Develop forms of measurement of research variables and indicators
10. Sorting a questionnaire : Formulates a query list as a data collection instrument
11. Test Instrument Validity and Reliability
12. Presentation of data: Categorization and tabulation of research data
13. Data analysis : Statistical and nonstatistical analysis models
14. Data Analysis based on the nature of qualitative and quantitative research

■ *Recommended literatures*

1. Bungin, Burhan. 2011. Qualitative Research: Communication, Economics, Public Policy and Other Social Sciences. Kencana, Prenada media grup. Jakarta
2. Muhammad. 2008. Islamic Economic Research Methodology, Quantitative Approach. Rajawali Press. Jakarta
3. Nazir, Moh. 2003. Research Methods. Penerbit Ghalia Indonesia. Jakarta
4. Sugiyono. 2002. Business Research Methods. CV Alfabeta. Bandung
5. Sugiyono. 2005. Understanding Qualitative Research. CV Alfabeta. Bandung
6. Sugiyono. 2005. Statistics for Research. CV Alfabeta. Bandung
7. Supranto. 2011. Customer Satisfaction Level Measurement. PT Rineka Cipta. Jakarta

STRATEGIC MANAGEMENT

■ <i>Module Name</i>	STRATEGIC MANAGEMENT
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FEB6081106
■ <i>Semester(s) in which the module is taught</i>	5
■ <i>Person(s) responsible for the module</i>	Mudatsir Najamuddin
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> ■ Lecture (class): (3 x 50 min) x 14 wks = 2100 " = 35 h ■ Structured activities: 3 h x 14 wks = 42 h ■ Independent study: 3 h x 14 wks = 42 h ■ Exam: lecture 2 h x 2 times = 4 h; ■ Total = 123 hours : 30 h = 4.1 ECTS
● <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Present 5%, Attitude 15%, Assignment structured 40%, Mid-term test 20%, Final test 20%.
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. To develop student's capability to think strategically about a company, its business position, and how it can gain sustainable competitive advantage and sustainable development. 2. To build student's skills in conducting strategic analysis in a variety of industries and competitive situations. 3. To improve student's ability to manage the organization process by which strategies get formulated, formed, and implemented or executed. 4. To integrate and synthesize the knowledge and skills learned in earlier courses (marketing, finance and accounting, production/operations, and human resources).

■ *Module content*

1. The Nature of Management Agribusiness Strategy, Models Strategy Management, Benefits of Management Strategy
2. Formulation Stages Strategy, Vision and Mission
3. Environment Analysis (External and Internal)- EFE, IFE
4. Analysis and Alternative Formulation Agribusiness Corporate Strategy, Tools Analysis: Matrix SWOT, IE Matrix, QSP Matrix
5. Formulation Business Unit Strategy Functional, Tools analysis: Competitive Matrix Profile
6. Analysis of Strategic Issues (Management, Marketing, Finance, R&D and MIS)
7. Balanced Score Card
8. Strategy Control
9. Leadership, social responsibility and Business Morals

■ *Recommended literatures*

1. Thompson, Jr., A.A., Peteraf, M.A., Gamble, J.E., and Strickland III, A. J. (2018). *Crafting and executing strategy-The quest for competitive advantage: Concepts and cases*, 20th Edition. McGraw-Hill, New York, NY.
2. Fred R. David, *Concepts of Strategic Management*, Pearson education, Inc. New Jersey, 2009
3. Thomas L. Wheelen dan J. David Hunger. 1999. *Strategic Management and Business Policy*. Prentice Hall, New Jersey
4. Husein Umar. 2002. *Strategic Management in Action*. PT Gramedia Pustaka Utama, Jakarta

SEMESTER 6

Entrepreneurship

■ <i>Module Name</i>	Entrepreneurship
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FEB6081202
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Mudatsir Najamuddin (Coordinator)
■ <i>Language</i>	English
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness, bersifat Konseptual dan aplikatif
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into four groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> ● Lecture (class): (3 x 50 min) x 14 wks = 35 h ● Structured activities: 3 h x 14 wks = 42 h ● Independent study: 3 h x 14 wks = 42 h ● Exam: lecture 2 h x 2 times = 4 h; ● Total = 123 hours
● <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Technopreneurship, Agribusiness Management
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Formative 40%, Middle Test 30%, Final test 40%.
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Able to explain, describe, and analyze entrepreneurial concepts / theories and their implementation in the business world. 2. Able to describe the mental attitude, characteristics and characteristics of successful entrepreneurs and able to explain the extent to which it affects him 3. Able to design and establish agribusiness startups (startup agribusinesses) and have good technical and managerial skills to manage and develop their business

■ *Module content*

Lecture (Class work)

1. Lecture Contract
2. The Power of Entrepreneurship: Entrepreneurial Perspectives, Economic Crisis and Industrial Revolution 4.0, Digital Economy and Entrepreneurship,
3. Business Ideas and Opportunities: The Entrepreneurial Process, the process of finding ideas and opportunities
4. Group Presentation: Business Ideas (Design Thinking)
5. Testing Business Ideas: startup business models and business strategies
6. Group Presentation: Testing Business Ideas Results
7. Team Building : business planning
8. Midterm Exam (UTS)
9. Designing a Business Model: the strength of the team, how to build a team including external teams and maintain team unity
10. Group Business Model Design Presentation (Business Model Canvas)
11. Developing a Business Plan: the importance of marketing in entrepreneurship, challenges in marketing, entrepreneurial marketing strategies and marketing skills
12. Group Business Plan Presentation
13. Business Management and Strategy: what an entrepreneur needs to prepare to start a business (startup)
14. Entrepreneurial Growth: Business management and strategies for managing and developing businesses
15. Final Business Plan & Product Launching Presentation
16. Final Semester Test

■ *Recommended literatures*

1. Bygrave, W.D. and A. Zacharakis, 2014. Entrepreneurship. Third Edition. John Wiley and Sons, USA.
2. Timmons, J.A & Stephen Spinelli, 2008. New Venture Creation, Entrepreneurship fo the 21st Cnetury, Edisi Indonesia. Penerbit ANDI.
3. Birley, S. and Muzyka, D.F. 2006. Mastering Enteprise. Terj. Nadjamuddin dan Wibowo. Indeks, Jakarta.
4. Blank, Steve & Bob Dorf. 2015. The Starup Owner's Manual. Edisi Indoensia. Penerbit PT. Elex Media Komputindo.
5. Osterwalder, A. and Pigneur, Y. 2012. Business Model Generation. Terj. N.R. Sihandini. Elex Media Komputindo, Jakarta.
6. Frederick, H.; Alan O' Connor, Donald F. Kuratko. 2016. Entrepreneurship. Cangage Learning Australia Pty Limited.
7. Setiyadi, Antonius. 2020. Entrepreneurship: Business Planning in the Digital Age. Media Discourse Partner Publishers.
8. Mursidin dan Arifin. 2020. Entrepreneurship Education. Publisher Bumi Aksana. Wulan Ayodia. 2020. UMKM 4.0.: MSME Strategy Enters the Digita Era. PT. Elex media Komputindo.
9. Leigh, A. & Micael Meynard. 2006. Leading Your Team: Strategi Melibatkan dan Menginspirasi TIM. Terjemahan. PT. Bhuana Ilmu Populer.
10. Ma'ruf Abdullah. 2013. Sharia-Based Entrepreneurship. Publisher Aswaja Pressindo.

11. Siswanto, A. 2016. The Power of Islamic Entrepreneurship (Energi Kewirauasahaan Islami). Amzah, Jakarta.
12. Mubarak, M.M. 2013. Practical Management of Entrepreneurship. Graha Pustaka Media Utama, Surabaya.
13. Pasaribu, A.M. 2012. Agribusiness-Based Entrepreneurship. Andi, Yogyakarta.
14. Ramdhan, H.E. 2016. Startup Lessons Peel Thoroughly Startup Business. Plus, Jakarta.
15. Ries, E. 2015. The learn Startup. Pustaka Bentang, Yogyakarta.

AGRIBUSINESS INFORMATION SYSTEM

■ <i>Module Name</i>	Agribusiness Information System
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092018
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Acep Muhib (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ <i>Workload</i>	<ul style="list-style-type: none"> ● Lecture (class): (3 x 50 min) x 14 wks = 35 h ● Structured activities: 3 h x 14 wks = 42 h ● Independent study: 3 h x 14 wks = 42 h ● Exam: lecture 2 h x 2 times = 4 h; ● Total = 123 hours
● <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Manajemen Agribisnis
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV mediawith Powerpoint presentation
■ <i>Forms of assessment</i>	Paper and Presentation 10%, Attitude 10% Assignment Structured 10%, Mid-term test 30%, Final test 40%.
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students have knowledge of agribusiness management, agricultural socio- economics, and the otherrelated knowledge (CPL2 / P1) 2. Students have the ability to identify and analyze problems, potentials and prospects as well as recommend alternative decision-making in agribusiness development using both quantitative and qualitative methods (CPL6 / KK1) 3. Students are able to design innovative agribusiness ventures (CPL 7 / KK2) 4. Students able to identify, process, analyze and utilize agribusiness data (CPL 8 / KU1)
■ <i>Module content</i>	

Lecture (Class work)

1. Basic Concepts of Management and Business Information Systems, Information, Management, and Systems
2. The importance of information for agriculture and agribusiness
3. Concept of Data, Information and Systems in the Agricultural Sector (Agribusiness)
4. Agribusiness System Deepening
5. The role of information systems in business decision-making systems
6. Electronic commerce system (E-commerce), marketing information system, and its role in agro market net
7. Customer relationship and supply chain management systems in ICT (Information communication technology) applications
8. Problems in the use of information technology include: Information technology security, relationship with ethics and society, Information technology security management;
9. Application of information systems and business technology in one of the case studies of agribusiness companies (Upstream and Downstream)

■ *Recommended literatures*

1. Management Information System (2014), Laudon Kenneth C and Laudon Jane P; 13th edition, Pearson Education Limited, London (2016)
2. Expert System (2009). Marimin. IPB press. Bogor
3. Decision-making Criteria majemuk. 2004. Marimin. Grasindo. Jakarta
4. Agribusiness Management (2004). Gumbira Said E dan Intan Harizt A. Ghalia Indonesia. Jakarta
5. Journal: Information System in Agriculture by David Just and David Zilberm
6. Journal : management Information system by Stephen B. Harsh Department of Agricultural Economics
7. Journal : Farm management information system : a case study on a German Multifunctional Farm by Christoph Husemann and Nebojša Novković
8. ICT Applications For Smallholder Inclusion In Agribusiness Supply Chain, Module Accessing Markets And Value Chains by Soham Sen (World Bank) and Vikas Choudhary (World Bank)
9. Video : Agriconnect , How will be the world 2020, Market2.go, farm fresh to you

Arabic

■ <i>Module Name</i>	Arabic
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	UIN6021204
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Achmad Fudhaili (Coordinator)
■ <i>Language</i>	Indonesian, Arabic
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> ● Lecture (class): (3 x 50 min) x 14 wks = 35 h ● Structured activities: 3 h x 14 wks = 42 h ● Independent study: 3 h x 14 wks = 42 h ● Exam: lecture 2 h x 2 times = 4 h; ● Total = 123 hours
● <i>Credit points</i>	3 Credit Hours (3-0) 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	Agribusiness Management
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV mediawith Powerpoint presentation
■ <i>Forms of assessment</i>	Formatif 50%, Mid-term test 20%, Final test 30%.
■ <i>Intended learning outcomes</i>	
<ol style="list-style-type: none"> 1. Students are able to apply religious, nationalism, and ethical values 2. Students have knowledge of agribusiness management, agricultural socio-economics, and related knowledge 3. Students able to identify, process, analyze and utilize agribusiness data 	

■ *Module content*

Lecture (Class work)

1. Skilled Arabic Writing using ICT
2. Knowledge of Jamid Letters and Words, speaking, reading, and writing them based on ICT
3. Knowledge of Sharaf Basith, speaking, reading, and writing ICT-based
4. Have knowledge of Nahwu Basith, speaking, reading, and writing ICT-based
5. Have Knowledge, Speak, Read, and Write Islamic Text I Based on ICT
6. Have Islamic Knowledge, Speaking, Reading, and Writing II-Based ICT
7. Have Knowledge, Speak, Read, and Write Kesain Text-Teknologian I Based on ICT
8. Have Knowledge, Speak, Read, and Write Kesain Text-Teknologian II Based on ICT
9. Have Knowledge, Speak, Read, and Write Kesain Text-Teknologian Basic I Based on ICT
10. Have Knowledge, Speak, Read, and Write Kesain Text-Teknologian Basic 2 Based on ICT
11. Have Knowledge, Speak, Read, and Write Kesain Text-Teknologian Basic 3 Based on ICT
12. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyyah baina Yadaika 1 Based on ICT
13. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyyah baina Yadaika 2 Based on ICT
14. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyyah baina Yadaika 3 Based on ICT
15. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyyah baina Yadaika 4 Based on ICT

■ *Recommended literatures*

Utama

1. ماجستير، تعلم العربية: الكتاب الدراسي لطلاب قسم لتربية الإسلامية: إدارتها تربية ، كلية علوم لتربية ولتعليم، جامعة. 1 شريف هداية الله الإسلامية الحكومية جاكرتا، ٢٠١٥
2. Drs. H. A.R. Partosentono, dkk., al-'Arabiyyah bin-Namadzij, Jakarta: Bulan Bintang ,2006), cet. 15. jilid 1.
3. Linguaphone - رُدوس في العربية
4. Prof. Dr. Ridlo Masduki, dkk., al-'Arabiyyah li thullab al-jami'ah (Bahasa Arab Untuk Perguruan Tinggi Jilid I), Jakarta: Darul Ulum Press, 2002, cet.
5. Latihan model soal Toaf, Oleh: Dr. Muhib Abdul Wahab, MAg.
6. Dr. Ismail Shini, Nashif Musthafa 'Abdu al-'Aziz dan Mukhtar al-Thahir Husain, Al-'Arabiyyah Li al-nasyiin, Manhaj Mutakamil Lighair al-Nathiqina Bi al-'Arabiyyah, Jilid 3 cet. 1 1983.
7. Hidayat, Bahasa Arab Qur'ani I: Towards a Wise, Tolerant, Egalitarian and Just Qur'anic Society, Semarang dan Jakarta: PT. Karya Toha Putra dan Yayasan Bina Masyarakat Qur'ani, 2003.

Penunjang

1. Abu Abdillah Muhammad Jamal al-Din bin Malik, Syarh Ibn Aqil ('Ala Alfiah) Dar al-Fikr, Damaskus.
2. Abu Luwia, al-Munjid Fi al-Lughah Wa al-A'lam, Dar el-Mashreq, Beirut, Lebanon, 1975.
3. Ahmad Warson al-Munawwir, Al-Munawir Kamus Arab-Indonesia, Krapyak, Yogyakarta, 1984.
4. Drs. Suwito, MA, AL-Sabil, Jakarta: IKIP Muhammadiyah Jakarta Press, 1995).
5. Contemporary Arabic texts, including Arabic textbooks, Arabic newspapers, Arabic journals dll.)

INTERNATIONAL TRADE

■ <i>Module Name</i>	International Trade
■ <i>Module level, if applicable</i>	-
■ <i>Module identification code</i>	FST6092020
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Edmon Daris (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into five groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 2100 min = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours : 30 h = 4.1 ECTS
■ <i>Credit points</i>	3 Credit Hours (2-1) ≈ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation, E-Views, SPSS, Laptop, WhiteBoard
■ <i>Forms of assessment</i>	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Able to master the foundation and basic theoretical skills of trading. 2. Able to master theoretical foundations and skills about the global job market. 3. Able to analyze in the case of small countries about the economic implications of tariffs and quotas. 4. Able to analyze optimal policy principles. 5. Able to analyze strategic trade policies. 6. Able to analyze social concerns about social welfare functions. 7. Able to analyze the rental system. 8. Able to analyze the interests and roles of interest groups. 9. Able to analyze endogenous policy theory.

10. Able to analyze anti-dumping and countervailing policies.
11. Able to analyze about cross-border externalities and global interests.
12. Able to analyze and utilize theories about industry competition in process vs product.

■ *Module content*

1. Basic Trade Theory
2. The Global Labor Market
3. Commercial Policy
4. Income Distribution and Trade Policy
5. Anti-Dumping and Countervailing Duties
6. The WTO, Standards, and the Environment

■ *Recommended literatures*

Primary books:

1. Krugman, P. and M. Obstfeld, International Economics, Theory and Policy, New York: Addison-Wesley, Seventh edition, 2005.
2. Ball, Donald A et al. International Business: The Challenge of Global Competition 9th. New York: McGraw-Hill, 2004.

Secondary books:

1. Kelly, Phil. International Business & Management: <http://www.cengage.co.uk/kelly/students/studentguide.pdf>, 2009.
2. Cavusgil, S. Tamer, Gary Knight, & John R Riesenberger. International business :strategy, management, and the new realities. Upper Saddle River, New Jersey: Pearson Prentice Hal, 2008.
3. Corden, W. Max, Trade Policy and Economic Welfare, chapters 2-4 (skip appendices), 9. On Blackboard under Course Documents.
4. Globophobia, by Burtless, G., Lawrence, R., Litan, R. and Shapiro, R., Washington: The Brookings Institution, 1996. Required text. Also available on the web.
5. Krueger, Anne O., ed. The Political Economy of Trade Protection, Chicago: University of Chicago Press, 1996.

HUMAN RESOURCE MANAGEMENT

■ <i>Module Name</i>	Human Resource Management
■ <i>Module level, if applicable</i>	Basic
■ <i>Module identification code</i>	FEB6081103
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Siti Rochaeni (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into four groups of structured assignment. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Lecture (class): (3 x 50 min) x 14 wks = 35 h • Structured activities: 3 h x 14 wks = 42 h • Independent study: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 123 hours
■ <i>Credit points</i>	3 Credit Hours (3-0) □ 4.1 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	The course of "Fundamentals of Management"
■ <i>Media employed</i>	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ <i>Forms of assessment</i>	Paper and Presentation 10%, Attitude 15%, Structured assignment 15%, Midterm exam 30%, Final exam 30%
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Students able to understand the concept of the basic of human resource management(HRM) 2. Students able to differentiate operational function of human resource management 3. Students able to analyze strategies to achieve organization goals 4. Students able to analyze the changes in organization environment and how to deal with the environment 5. Students able to develop a decent and systematic writing about human resource management

■ *Module content*

Lecture (Class work)

1. Strategic Human Resource Management:
 - a. HRM and its functions
 - b. Dynamic environment of HRM
 - c. Trend and innovation in HRM

2. Business ethic and corporate social responsibility:
 - a. Model and definition of ethic
 - b. HRM ethic
 - c. Corporate Social responsibility
 - d. Stake holders and social contract analysis
 - e. Company's obligations to individuals, other organizations, government, and general public
 - f. Implementing CSR programs

3. Work Force Diversity and Equal Work Opportunities
 - a. Diversity and diversity management
 - b. Single parent and working mom
 - c. Women in business
 - d. Double breadwinner family
 - e. Old employee
 - f. Disabled people
 - g. Youth with limited education or skills
 - h. Employee's education level
 - i. Equal work opportunities
 - j. Concept of unequal treatment

4. Job analysis
 - a. Job analysis
 - b. Reasons to carry out a job analysis
 - c. Types of job analysis information
 - d. Method of job analysis
 - e. Carrying out the job analysis
 - f. Job description
 - g. Process of strategic planning

5. Human resource planning
 - a. Human resource planning
 - b. Predicting human resource need
 - c. Predicting human resource availability
 - d. Usage of human resource database
 - e. Prediction of human resource shortage

6. Recruitment
 - a. Definition of recruitment
 - b. Recruitment alternatives
 - c. External environment
 - d. Promotion policy
 - e. Recruitment process
 - f. Internal recruitment methods
 - g. External recruitment sources
 - h. Online recruitment methods
 - i. Traditional external recruitment method
 - j. Applicant tracking system
 - k. Adjusting recruitment methods to recruitment sources for diversity

7. Review topic 1-6

8. Selection and job interview
 - a. Urgencies of job interview
 - b. Environmental factor that affects the selection process
 - c. Selection process
 - d. Preliminary interview
 - e. Application examination
 - f. Resume examination

9. Selection and job interview (part 2)
 - a. Selection criteria: Selection test: advantages and potential problems; Characteristics of appropriately designed selection tests; Types of validation study; Types of job test; Forms of tests; Assessment center; Job interview; General types of interviews; Interview methods; Potential problems in interview; Prescreening: back ground investigation; Prescreening: referral verification
 - b. Trend and innovation

c. Measures to evaluate recruiting effectiveness

10. Orientation and placement:

- a. Orientation programs
- b. Employee placement
- c. *Hindrance of placement to productivity*

11. Training and development:

- a. Strategic training and development
- b. Factors influencing training and development
- c. Training and development process
- d. Setting specific goals for training and development

12. Management development

- a. Management development
- b. Organization development

13. Review topic 8-12

14. Group presentation

■ ***Recommended literatures***

Main literatures:

1. Mondy, Wayne R (2016). *Human Resource Management*, 14th Edition, Pearson Education, Inc
2. Dessler, Gary (2017). *Human Resource Management*, 15th Edition, Pearson Education, Inc

Supporting literatures:

1. Academic journals in relevant field
2. Internet and other medias

URBAN FARMING

■ <i>Module Name</i>	Urban Farming
■ <i>Module level, if applicable</i>	
■ <i>Module identification code</i>	FST6092034
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Iwan Aminudin (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> ● Lecture (class): (2 x 50 min) x 14 wks = 23.3 h ● Structured activities: 2 h x 14 wks = 28 h ● Independent study: 2 h x 14 wks = 28 h ● Exam: lecture 2 h x 2 times = 4 h; ● Total = 83.3 hours : 30 h = 2,78 ECTS
● <i>Credit points</i>	2 Credit Hours (2-0) ≈ 2,78 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Classical teaching tools with projector, LCD, and TV media with Powerpoint presentation
■ <i>Forms of assessment</i>	Practical 30%, Mid-term test 30%, Final test 40%.
■ <i>Intended learning outcomes</i>	
<ol style="list-style-type: none"> 1. Able to understand the meaning of urban agriculture, objectives, advantages, challenges and opportunities. 2. Able to understand urban agricultural land inventory and categories of urban agricultural land availability. 3. Able to understand the meaning of yard plants and know how to optimize yard land for food security and the family economy. 4. Able to understand about permaculture 5. Able to identify organic waste that can be used as fertilizer, and able to make solid/liquid organic fertilizer. 6. Able to explain and practice technological aspects in urban agriculture (hydroponics, vertical garden, fruit plants in pots, and nursery). 	

7. Able to understand and understand aspects of urban agriculture (input, rental, plants and landscaping)

■ *Module content*

Lecture (Class work)

1. Understanding urban farming
2. Land inventory and land availability for urban farming
3. Garden plants
4. Permaculture
5. Organic waste and its processing
6. Hydroponics
7. Vertical garden
8. Cultivating fruit plants in pots
9. Urban farming business

■ *Recommended literatures*

Mougeot. 2000. Urban Agriculture : Definition, Presence, Potentials and Risks, and Policy Challenges. International Development Research Center (IDRC)
Butler, L, Moronek, D.M.2002. Urban and Agriculture Communities: Opportunities for Common Ground, Ames, Iowa: Council for Agricultural Science and Technology

PRACTICE OF URBAN FARMING

■ <i>Module Name</i>	Practice of Urban Farming
■ <i>Module level,if applicable</i>	
■ <i>Module identification code</i>	FST6092134
■ <i>Semester(s) in which the module is taught</i>	6
■ <i>Person(s) responsible for the module</i>	Iwan Aminudin (Coordinator)
■ <i>Language</i>	Indonesian
■ <i>Relation to curriculum</i>	Compulsory Course for undergraduate program in Agribusiness
■ <i>Teaching methods, contact hours</i>	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion. Students are divided into twelve groups of structured assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ <i>Workload</i>	<ul style="list-style-type: none"> • Practical: 3 h x 14 wks = 42 h • Exam: lecture 2 h x 2 times = 4 h; • Total = 82 hours : 30 h = 2,73 ECTS
● <i>Credit points</i>	1 Credit Hours (0-3) ≈ 2,73 ECTS
■ <i>Admission and examination requirements</i>	<ul style="list-style-type: none"> • Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ <i>Recommended prerequisites</i>	-
■ <i>Media employed</i>	Practical guidebook
■ <i>Forms of assessment</i>	Practical 30%, Mid-term test 30%, Final test 40%.
■ <i>Intended learning outcomes</i>	<ol style="list-style-type: none"> 1. Able to understand the meaning of urban agriculture, objectives, advantages, challenges and opportunities. 2. Able to understand urban agricultural land inventory and categories of urban agricultural land availability. 3. Able to understand the meaning of yard plants and know how to optimize yard land for food security and the family economy. 4. Able to understand about permaculture 5. Able to identify organic waste that can be used as fertilizer, and able to make solid/liquid organic fertilizer. 6. Able to explain and practice technological aspects in urban agriculture (hydroponics, vertical garden, fruit plants in pots, and nursery). 7. Able to understand and understand aspects of urban agriculture (input, rental, plants and landscaping)

■ *Module content*

Lecture (Class work)

1. Understanding urban farming
2. Land inventory and land availability for urban farming
3. Garden plants
4. Permaculture
5. Organic waste and its processing
6. Hydroponics
7. Vertical garden
8. Cultivating fruit plants in pots
9. Urban farming business

■ *Recommended literatures*

Mougeot. 2000. Urban Agriculture : Definition, Presence, Potentials and Risks, and Policy Challenges. International Development Research Center (IDRC)
Butler, L, Moronek, D.M.2002. Urban and Agriculture Communities: Opportunities for Common Ground, Ames, Iowa: Council for Agricultural Science and Technology