FACULTY OF SCIENCE AND TECHNOLOGY
UIN SYARIF HIDAYATULLAH JAKARTA

MODULE HANDBOOK

2025

AGRIBUSINESS STUDY PROGRAM
FACULTY OF SCIENCE AND TECHNOLOGY
UIN SYARIF HIDAYATULLAH JAKARTA
2025

MODULE HANDBOOK
AGRIBUSINESS CURRICULUM YEAR 2020

AGRIBUSINESS STUDY PROGRAM
FACULTY OF SCIENCE AND TECHNOLOGY
SYARIF HIDAYATULLAH STATE ISLAMIC UNIVERSITY JAKARTA
2025

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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		√	√		√				
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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		√	√	√		√		√	√
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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								√	
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No	Code	Course Name (module)	Credit	Semester	Learning Outcome (LO)								
					S1	S2	P1	P2	P3	KK1	KK2	KU 1	KU 2
1	UIN6000207	Field Practices	4 (0-4)	7		√				√		√	
2	UIN6000206	Community Service Program	4 (0-4)	7		√				√		√	
			8										
1	UIN6000313	Seminar	1 (0-1)	8						√		√	
2	UIN6000312	Undergraduate Thesis	6 (0-6)	8				√		√		√	
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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 developmentusing bothquantitative 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

■ *Module Name*	Pancasila and Civic Education
■ *Module level, if applicable*	Basic
■ *Module identification code*	NAS6112201
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Diana Mutia Habibaty, M.H. (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	General Basic Courses
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours lecture (face to face) per semester = 35.00 h • Hours of midterm and final exam per semester = 5.00 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 49.00h • Lecture (ECTS) = 89: 30 = 2.97 ECTS
■ *Credit points*	3 Credit Hours (3-0) 2.97 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups • 100% Exam
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Formative 40%
■ *Intended learning outcomes*	
Pancasila and Civic Education is one of the compulsory subjects of the University. In this course, students are 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, 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 literatures:

1. Mufidah. (2020). *Pancasila and civic education module*. Jakarta: Haruka Edu.
2. Directorate General of Learning and Student Affairs, Ministry of Research, Technology and Higher Education of the Republic of Indonesia. (2016). *Pancasila education for higher education*.
3. Directorate General of Learning and Student Affairs, Ministry of Research, Technology and Higher Education of the Republic of Indonesia. (2016). *Textbook of general compulsory courses in civic education*.
4. Ubaedillah, A., & ICCE UIN Jakarta Team. (2015). *Civic education for higher education: Pancasila, democracy, and corruption prevention*. Jakarta: ICCE UIN Jakarta.

Support Literatures:

1. Abdillah, M., & Ahmad, S. Abdillah, Masykuri. (1999). Democracy at the crossroads of meaning: The response of Muslim intellectuals. Tiara Wacana.
2. Ahmad, Supriyadi. (2009). Paradise on earth called corruption: Perspectives on Islamic law and positive law in Indonesia. Jurnal Ahkam.
3. Azra, Azyumardi. (1999). Menuju masyarakat madani [Towards civil society]. Remaja Rosdakarya.
4. Azra, A. (2002). Azra, Azyumardi. (2002). Repositioning religion and state relations: Knitting inter-religious harmony. Kompas.
5. Bakti, Andi Faisal. (2000). Good governance: A workable solution for Indonesia. IAIN Jakarta Press.
6. Beittinger-Lee, Verena. (2009). Civil society and political change in Indonesia: A contested arena 1st. Routledge.
7. Budiardjo, Miriam. (1996). Demokrasi di Indonesia: Demokrasi parlementer dan demokrasi Pancasila [Democracy in Indonesia: Parliamentary democracy and Pancasila democracy]. Gramedia.
8. Centra, John A. (1993). Reflective faculty evaluation: Enhancing teaching and determining faculty effectiveness. Jossey-Bass Publisher.
9. Direktorat Jenderal Pembelajaran dan Kemahasiswaan, Kementerian Riset, Teknologi dan Pendidikan Republik Indonesia. Direktorat Jenderal Pembelajaran dan Kemahasiswaan, Kementerian Riset, Teknologi dan Pendidikan Republik Indonesia. (2016). Buku ajar mata kuliah wajib umum pendidikan.
10. Effendi, Bahtiar. (1998). Islam and the state: The transformation of Islamic political thought and practice in Indonesia. Paramadina.
11. Hidayat, Komaruddin, & Gaus, Ahmad (Eds.). (2005). Islam, the state, and civil society. Paramadina.
12. Jamalong, Ahmad, dkk. (2019). Pancasila and citizenship education in higher education. Rajawali Press.

13. Mahfud MD, Moh. (1999). Hukum dan pilar-pilar demokrasi [Law and the pillars of democracy]. Gama Media.
14. Marsh, Ian, Blondel, Jean, & Inoguchi, Takashi (Eds.). (2000). Democracy, governance, and economic performance: East and Southeast Asia (The changing nature of democracy). United Nations University Press.
15. Pusat Studi Wanita (PSW) UIN Jakarta. (2003). Pengantar studi gender [Introduction to gender studies].
16. Rahardjo, M. Dawam. (1999). Civil society: Agama, kelas menengah, dan perubahan sosial [Civil society: Religion, the middle class, and social change]. LP3ES.
17. Silberman, Mel. (1996). Active learning: 101 strategies to teach any subject. Allyn and Bacon.
18. Sjadzali, M. (1990). Sjadzali, Munawir. (1990). Islam dan tata negara: Ajaran, sejarah, dan pemikiran [Islam and statecraft: Teachings, history, and thought]. UI Press.
19. Ward, Ann. (2021). Polis, nation, global community: The philosophic foundations of citizenship. Routledge.
20. Winataputra, Udin S. (2001). What and how of civic education in higher education. (Makalah Lokakarya).

Islamic Studies

■ *Module Name*	Islamic Studies
■ *Module level, if applicable*	Basic
■ *Module identification code*	UIN6032201
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Fardiana Fikria Qur'any, M. Ud
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness.
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total hours of lecture (face to face) per semester = 46.67 h • Hours of midterm and final exam per semester = 6.67 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 65.33h • Lecture (ECTS) = 118.67: 30 = 3.96 ECTS
■ *Credit points*	4 Credit Hours (4-0) 3.96 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in Laboratory and/or field works
■ *Recommended prerequisites*	None
■ *Media employed*	Classical teaching tools with whiteboard and PowerPoint presentation
■ *Forms of assessment*	Midterm exam 40%, Final exam 40%, Quiz 10%, Structured assignment 10%
■ *Intended learning outcomes*	
Students are able to apply religious, national and ethical values. Students have knowledge of Islamic science both normatively and historically.	
■ *Module Content*	
Lecture (Class work) 1. Definition, scope and approach to Islamic studies. 2. Definition, origins, types, elements, purpose and functions of religion. 3. Human need religion. 4. Islam in its true sense. 5. Characteristics and principles of Islamic teachings. 6. Sources of Islamic teachings (al-Quran, al-Hadis and interpretation). 7. Principles of Islamic teachings; faith, Islam and Ihsan, knowledge and charity 8. Aspects of worship, spiritual practice and moral teachings in Islam. 9. Aspects of Islamic history and culture.	

10. Islamic political and institutional aspects
11. Aspects of education in Islam.
12. Aspects of Islamic da'wah.
13. Community aspects in Islam.
14. Aspects of moral development in Islam.
15. Islamic perspective on gender equality.
16. Aspects of theology in Islam.
17. Islamic science (1) (kalam, Islamic philosophy and Sufism).
18. Islamic science (2) (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*

1. Abdullah, A. (1996). *Studi Islam: Normativitas atau historisitas* [Islamic studies: Normativity or historicity]. Pustaka Pelajar.
2. Abdullah, T. (1987). *Islam and society reflections of Indonesian history*. LP3ES.
3. Abdullah, Y. (2006). *Studi Islam kontemporer* [Contemporary Islamic studies]. AMZSAH.
4. Ameer Ali, S. (1967). *Api Islam* [The spirit of Islam]. PT Pembangunan.
5. Azra, A. (2002). *Jaringan global dan lokal Islam Nusantara* [Global and local network of Islam Nusantara]. Mizan.
6. Azra, A. (2006). *Indonesia, Islam and democracy: Dynamics in global context*. SOLISTICE, ICIP, The Asia Foundation.
7. Bahesti, M. H., & Bahran, J. (2005). *Intisari ajaran Islam* [The essence of Islam]. Lentera.
8. Benda, H. J. (1985). *Bulan sabit dan matahari terbit: Islam Indonesia pada masa pendudukan Jepang* [Crescent moon and sunrise-Islamic Indonesia during the Japanese occupation]. Pustaka Jaya.
9. Connolly, P. (2002). *Aneka pendekatan studi agama* [The approaches study of religion]. LKIS.
10. Dermenghen, E. (1981). *Muhammad and the Islamic tradition*. The Overlook Press.
11. Dirks, J. F. (2006). *Abrahamic faiths: Titik temu dan titik seteru* [Abrahamic faiths, meeting point and seter point]. Serambi Ilmu Semesta.
12. Fuller, G. E. (n.d.). *A world without Islam*. Little Brown Company.
13. GIBB, H. A. R. (1985). *Aliran-aliran modern dalam Islam* [Modern schools in Islam]. Perdana.
14. Grunebaum, G. E. V. (1975). *Islam: Kesatuan dalam keragaman* [Islam unity in diversity]. Indraka.
15. Hamid, S. R. (2003). *Buku pintar agama Islam* [Islamic religious smart book]. Salam.
16. Hamka. (1978). *Pelajaran agama Islam* [Islamic religious lessons]. Bulan Bintang.
17. Hasan, M. T. (2000). *Islam dalam perspektif sosio-kultural* [Islam in socio cultural perspective]. Lantabora Press.
18. Hidayat, K., & Gaus AF, A. (2005). *Islam, the state and civil society: Contemporary Islamic movements and thought*. Paramadina.
19. Hidayat, K., & Gaus AF, A. (2006). *Being Indonesia: 13 centuries of Islamic existence Bumi Nusantara*. Mizan.
20. Huda, N. (2007). *Islam Nusantara: Sejarah sosial-intelektual Islam di Indonesia* [Islam Nusantara, social history of Islamic intellectuals in Indonesia]. Ar-Ruzz Media Group.
21. Iqbal, M. (1996). *Membangun kembali pikiran keagamaan dalam Islam* [Rebuilding the

religious mind in Islam]. Tintamas.
22. Iqbal, S. M. (1986). *Muslim contribution to science*. Kazi Publication.
23. Kirmani, M. Z. (2001). *The Qur'an and the future and science*. Global Vision Publishing House.
24. Kuntowijoyo. (1991). *Paradigma Islam: Interpretasi untuk aksi* [Islamic paradigm: Interpretation for action]. Mizan.
25. Lapidus, I. M. (1999). *Sejarah sosial ummat Islam* [Social history of Muslims], (Jilid I, II, dan III). RajaGrafindo Persada.
26. Madjid, N. (1977). *Masyarakat religius* [Religious society]. Yayasan Wakaf Paramadina.
27. Madjid, N. (1992). *Islam, doktrin dan peradaban* [Islam, doctrine and civilization]. Yayasan Wakaf Paramadina.
28. Madjid, N. (1993). *Islam, kemodernan dan keindonesiaan* [Islam modernity and Indonesia]. Mizan.
29. Madjid, N. (1997). *Tradisi Islam, peran dan fungsinya dalam pembangunan Indonesia* [Islamic tradition, its role and function in Indonesia's development]. Paramadina.
30. Mujib, A., & Mudzakkir, J. (2005). *Studi Islam dalam berbagai dimensi dan pendekatan* [Islamic studies in various dimensions and approaches]. Prenada Media.
31. Muthahhari, M. (1996). *Islam dan tantangan zaman* [Islam and the challenges of the times]. Pustaka Hidayah.
32. Nasution, H. (1979). *Islam ditinjau dari berbagai aspeknya* [Islam viewed from its various aspects] (Jilid I dan II). UI Press.
33. Nasution, H. (1982). *Filsafat agama* [Philosophy of religion]. Bulan Bintang.
34. Nata, A. (2003). *Integrasi agama dan sains umum* [Integration of religion and general science]. UIN Jakarta Press.
35. Nata, A. (2011). *Studi Islam komprehensif* [Comprehensive Islamic studies]. Prenada Media Group.
36. Nata, A. (2013). *Metodologi studi Islam* [Methodologists studies Islam]. RajaGrafindo Persada.
37. Noer, D. (1981). *Gerakan modern Islam di Indonesia 1900-1942* [Modern Islamic movement in Indonesia, 1900-942]. LP3ES.
38. Rahman, F. (1987). *Islam*. Bina Aksara.
39. Razak, N. (1977). *Dienul Islam*. al-Ma'arif.

Practice of Qiroah and Worship

■ *Module Name*	Practice of Qiroah and Worship
■ *Module level, if applicable*	Basic
■ *Module identification code*	UIN6032205
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Fardiana Fikria Qur^any, M. Ud
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness.
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours lecture (face to face) per semester = 0.00 h • Hours of midterm and final exam per semester = 8.00 h • Total hours practical = 70.00 h • Total hours of structure and self-study per semester = 32.67 h • Lecture (ECTS) = 0.00: 30 = 0.00 ECTS • Practical (ECTS) = 110.67: 30 = 3.69
■ *Credit points*	2 Credit Hours (2-0) 3.69 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in class
■ *Recommended prerequisites*	None
■ *Media employed*	Classical teaching tools with whiteboard and PowerPoint presentation
■ *Forms of assessment*	Midterm exam 40%, Final exam 40%, Quiz 10%, Structured assignment 10%
■ *Intended learning outcomes*	
Students are able to apply religious, national and ethical values. Students have knowledge of reading the Koran according to the rules of Tajwid and religious jurisprudence in the five schools of thought.	
■ *Module content*	
Lecture (Class work) 1. The urgency of learning the law of reciting the Koran and practicing it. 2. Hijaiyah and Qalqalah letters. 3. Tarqiq-Tafkhim and alif lam al-Qamariyah and as-Syamsyiiah 4. Read the muqatha'ah letters 5. Mad Asli and Mad Far'i 6. Nun Mati, Tanwin and Izhar, Ikhfa, Idgham, Iqlab and Ikhfa Syafawi. 7. Wahal and Exceptional Law 8. The urgency of understanding fiqh from various perspectives of the five schools of thought (Ja'fari, Maliki, Hanafi, Syafi'I, Hanbali. 9. Taharah according to the fiqh of the five schools of thought. 10. Prayer according to the fiqh of the five schools of thought.	

11. Fasting according to the fiqh of the five schools of thought
12. Zakat according to the fiqh of the five schools of thought.
13. Hajj according to the fiqh of the five schools of thought.
14. Management of the corpse according to the fiqh of the five schools of thought.

■ *Recommended literatures*

1. Ghozali, A., dkk. (2019). Ghozali, A., dkk. (2019). *Praktikum qiroah* [Qira'ah practicum]. Salemba Diniyyah.
2. Mughniyyah, M. J. (2011). Mughniyyah, M. J. (2011). *Fiqih lima mazhab* [Fiqh of the five madhhabs]. Lentera.
3. Warner, B. (2010). Warner, B. (2010). *The life of Mohammed - The Sira*. Center for The Study of Political Islam. Retrieved from http://www.cspipublishing.com/
4. Exhibition Islam. (2020). Exhibition Islam. (2020). *Exhibition Islam - The magnificent Quran – A unique history of its preservation 1*. Retrieved from http://www.ExhibitionIslam.com

Islam and Science

■ *Module Name*	Islam and Science
■ *Module level, if applicable*	Basic
■ *Module identification code*	UIN6032202
■ *Semester(s) in which the module is taught*	1
■ *Person(s)responsible for the module*	Fardiana Fikria Qur'any, M. Ud
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness.
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total hours lecture (face to face) per semester = 35.00 h • Hours of midterm and final exam per semester = 5.00 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 49.00h • Lecture (ECTS) = 89: 30 = 2.97 ECTS
■ *Credit points*	3 Credit Hours (4-0) 2.66 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in class
■ *Recommended prerequisites*	None
■ *Media employed*	Classical teaching tools with whiteboard and PowerPoint presentation
■ *Forms of assessment*	Midterm exam 40%, Final exam 40%, Quiz 10%, Structured assignment 10%
■ *Intended learning outcomes*	
Students are able to apply religious, national and ethical values Students have knowledge of the integrative paradigm between philosophy, science and religion	
■ *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*

1. Abdalah, M. (2003). *The fate of Islamic science between the eleventh and sixteenth centuries: A critical study of scholarship from Ibn Khaldun to the present* (Unpublished doctoral dissertation). Griffith University.
2. Ahmed, A. S. (1996). *Postmodernisme: Bahaya dan harapan bagi Islam* [Postmodernism: Dangers and hopes for Islam] (IV ed., Terjemahan). Mizan.
3. Al-Najjar, Z. (2010). *Selected commentaries on the verses of the cosmos in the Qur'an al-Karim* (Volumes 1 & 2). Shorouk International Bookshop.
4. Al-Sa'di, A. A. (1994). *al-Bi'ah fi al-fikr al-insani wal-waqi' al-imani* [The environment in human thought and the reality of faith]. al-Dar al-Mishriyyah al-Lubnaniyah.
5. Ancok, D., & Suroso, F. N. (2001). *Psikologi Islam: Solusi Islam atas problem-problem psikologi* [Islamic psychology: Islamic solutions to psychological problems] (IV ed.). Pustaka Pelajar.
6. Audi, R. (1999). *Epistemology: A contemporary introduction to the theory of knowledge*. Routledge.
7. Derry, G. N. (1999). *What is science and how it works*. Princeton University Press.
8. Dewitt, R. (2010). Philosophy of science. In F. Allhoff (Ed.), *Philosophies of the sciences: A guide*. Wiley-Blackwell.
9. Franz Roshental (Rosenthal, F.). (2007). *Knowledge triumphant: The concept of knowledge in medieval Islam*. Brill.
10. Guessoum, N. (2011). *Islam's quantum question: Reconciling Muslim tradition and modern science*. I.B. Tauris.
11. Hitchcock, C. (2004). Introduction: What is the philosophy of science. In C. Hitchcock (Ed.), *Contemporary debates in philosophy of science*. Blackwell Publishing Ltd.
12. Iqbal, M. (2007). *Science and Islam: Greenwood guides to science and religion*. Greenwood Press.
13. Ismail Raji Al Faruqi, & Lamya Al Faruqi. (1992). *Atlas of Islamic culture* (M. R. Othman et al., Trans.). Malaysian Ministry of Education Language and Literature Council.
14. Lapidus, I. M. (1999). *Sejarah sosial ummat Islam* [Social history of the people] (G. A. Mas'adi, Trans.). PT Raja Grafindo Persada.
15. Mahmud, H. A. (1986). *al-Islam wa al-hadhrah al-arabiyyah fi Asia al-Wustha baina al-fathatain al-'Arabi wa al-Turki 21 H-447 H* [Islam and the Arab civilization in Central Asia between the two conquests, Arab and Turkish 21 H-447 H]. Dar al-Fikr al-Arabia.
16. Masjid, N. (1992). *Islam doktrin dan peradaban: Sebuah kajian kritis tentang masalah keimanan, kemanusiaan, dan kemodernan* [Islam doctrine and civilization: A critical study of the problems of faith, humanity, and modernity] (Edisi Kedua). Yayasan Wakaf Paramadina.
17. Masood, E. (Ed.). (2006). *How do you know: Reading Ziauddin Sardar on Islam, science and cultural relations*. Pluto Press.
18. Mones, H. (1987). *Athlas tarih al-Islam* [Atlas of the history of Islam]. Al-Zahra for Arab Mass Media.
19. Morvillo, N. (2010). *Science and religion: Understanding the issues*. Wiley-Blackwell.
20. Mujani, S. (2007). *Muslim democrats: Islam, democratic culture, and political participation in post-new order Indonesia*. PT Gramedia Pustaka Utama.
21. Nasr, S. H. (2001). *Science and civilization in Islam*. ABC International Group, Inc.
22. Nasution, H. (1985). *Islam ditinjau dari berbagai aspeknya* [Islam reviewed from various

aspects] (Volume 1). UI Press.
23. Nola, R., & Irzik, G. (2005). *Philosophy, science, education and culture*. Springer.
24. Pranowo, B. (2009). *Memahami Islam Jawa* [Understanding Javanese Islam]. Pustaka Alvabet dan INSEP.
25. Putnam, R. (1993). *Making democracy work: Civic tradition in modern Italy*. Princeton University Press.
26. Rosenthal, E. I. J. (1965). *Islam in the modern national state*. Cambridge University Press.
27. Samir Okasha. (2002). *Philosophy of science: A very short introduction*. Oxford University Press.
28. Shihab, M. Q. (1992). *Membumikan Al-Qur'an: Fungsi dan peran wahyu dalam kehidupan masyarakat* [Grounding the Qur'an: The function and role of revelation in community life]. Mizan.
29. Shihab, M. Q. (1996). *Wawasan Al-Qur'an: Tafsir maudhu'i atas pelbagai persoalan umat* [Insight into the Qur'an: Thematic commentary on various community issues]. Mizan.
30. Susanto, M. (2005). *Sejarah peradaban Islam* [History of Islamic civilization]. RajaGrafindo.
31. Thohir, A. (2009). *Studi kawasan dunia Islam* [Studies of the Islamic world region]. Rajawali Press.
32. Turner, H. R. (2006). *Science in medieval Islam: An illustrated introduction*. University of Texas Press.

Introduction to Economics

■ *Module Name*	Introduction to Economics
■ *Module level, if applicable*	Basic
■ *Module identification code*	FEB6083201
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Dewi Rohma Wati (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness.
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total hours lecture (face to face) per semester = 35.00 h • Hours of midterm and final exam per semester = 5.00 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 49.00h • Lecture (ECTS) = 89: 30 = 2.97 ECTS
■ *Credit points*	3 Credit Hours (3-0) = 2.97 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in class
■ *Recommended prerequisites*	
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Presence 10%, Structured assignment (individual & group) 30%
■ *Intended learning outcomes*	
This course is an introductory course and is a guideline for students to understand other courses about agribusiness. In this course, students are able to explain both micro and macroeconomics which will continue to be used as a basis for deepening other subjects in the Agribusiness Study Program.	
■ *Module content*	
Lecture (Class work) 1. Definition and scope of economics; Islamic economic system, 2. Demand and supply theory, 3. Consumption theory and consumer behavior, 4. Utility theory, 5. Market structure in the economy, 6. Production and elasticity theory, 7. National Income and Gross Domestic Product, 8. Money and inflation	

9. The open economy,
10. Unemployment,
11. Economic Growth, and

History of economic thought

■ *Recommended literatures*

Main References:

1. Azharsyah Ibrahim, E. A., Nashr Akbar, N. K., Utami, S. A., & Nofrianto. (2021). *Introduction to Islamic economics*. Bank Indonesia.
2. Berkeley Hill. (2021). *An introduction to economics: Concepts for students of agriculture and the rural sector* (5th ed.). CABI.
3. Birchall, O. (2016). *Introduction to economics*. University of London.
4. Dinar, M., & Hasan, M. (2018). *Pengantar ilmu ekonomi: Teori dan aplikasi* [Introduction to economics: Theory and applications]. CV Lina.
5. Elizabeth Lenny M., dkk. (2021). *Introduction to economics*. Our Writing Foundation.
6. Hendra Safri. (2018). *Introduction to economics*. IAIN Palopo.
7. Landreth, H., & Colander, D. (2012). *History of economic thought* (4th ed.). Houghton Mifflin Company.
8. Lora Ekana Nainggolan. (2021). *Monetary economics*. Our Writing Foundation.
9. Mankiw, N. G. (2005). *Macroeconomics* (7th ed.). Harvard University.
10. Nugrahini Susanti Wisnujati. (2022). *Dasar ilmu ekonomi* [Fundamentals of economics]. Yayasan Kita Menulis.
11. Samuelson, P. A., & Scott, A. (1967). *Economics: An introductory analysis*. McGraw-Hill Company of Canada Limited.
12. Soemitro, R. (1966). *Introduction to economics*. 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

■ *Module Name*	Introduction to Agribusiness
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092002
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Dr. Zulmaneri (Coordinator)
■ *Language*	Bilingual (Indonesian and English)
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 46.67h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS
■ *Credit points*	3 Credit Hours (3-0) = 2.44 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with PowerPoint presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Presence 10%, Structured assignment (individual & group) 30%
■ *Intended learning outcomes*	
This course is an introductory course and is a guideline for students to understand other courses about agribusiness. In this course, students explain agribusiness theory a basis for deepening other subjects in the Agribusiness Study Program.	
■ *Module content*	
<u>Lecture (Classwork)</u> a. Conventional farming, integrated farming systems according to sharia, types of agribusinesses, 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	

Agricultural sales system as the spearhead of marketing agricultural products

e. The concept of sustainable agribusiness development, environmentally friendly, has unique characteristics, structures and competitive strategies in the global market in accordance with sharia

■ *Recommended literature*

Main References:

1. Davis, J. H., & Goldberg, R. A. (1957). *A concept of agribusiness*. Harvard University.
2. Downey, W. D., & Erickson, S. P. (1987). *Agribusiness management* (2nd ed.). McGraw-Hill Agricultural Series.
3. Fleet, D. V., & Fleet, E. V. (2013). *Agribusiness: Principles of management*.
4. Gumbira Sa'id, E. (2001). *Manajemen teknologi agribisnis* [Agribusiness technology management]. Ghalia Indonesia.
5. Gumbira Sa'id, E., & Harizt, I. (2001). *Manajemen agribisnis* [Agribusiness management]. Ghalia Indonesia.
6. Wetherington, M. V. (2021). *American agriculture: From farm families to agribusiness*. Rowman & Littlefield Publishers.

Supporting References:

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

FUNDAMENTALS OF MANAGEMENT

■ *Module Name*	Fundamental of Management
■ *Module level, if applicable*	Basic
■ *Module identification code*	FEB6081213
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Rizki Adi Puspita Sari, MM
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS
■ *Credit points*	3 Credit Hours (3-0) ~ 2.44 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Paper and Presentation 10%, Attitude 5%, Structured assignment 25%, Midterm exam 30%, Final exam 30%
■ *Intended learning outcomes*	
This course emphasizes a functional or process approach to management studies, where the discussion material covers all important functions and activities in management. These functions include planning, organizing, leading, and controlling as well as the effective and efficient use of resources in order to achieve organizational goals.	
■ *Module content*	
Lecture (Class work) 1. Definition of Management and Organization 2. Organizational Culture and Environment 3. Management Practices in a Global Environment 4. Social Responsibility and Managerial Ethics	

5. Decision Making in Management
6. Basics of Management Planning
7. Organizational Structure and Design
8. Managing Human Resources
9. Individual Behavior in Organizations
10. Communication Management and Motivation in Organizations
11. Motivation Theory

■ *Recommendation Literature*

Main literature:

1. Management, by Stephen P. Robbins & Mary Coulter (2016), Edisi Bahasa Indonesia, 11th Edition, Jilid 1 dan 2, Prentice Hall
2. Management by J.A. Stonner; R.E. Freeman; Gilbert Jr (2013), Edisi Bahasa Indonesia, Jilid 1 dan 2, Prentice Hall
3. Era Baru Manajemen by Richard L. Daft (2010), 9th Edition Jilid 1 dan 2, Salemba Empat
4. Pengantar Manajemen by Ismail Solihin (2009), Penerbit Erlangga

Supporting literature:

Articles from websites and other media that are appropriate

INTRODUCTION TO AGRICULTURAL SCIENCE

■ *Module Name*	Introduction to Agricultural Science
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST609202
■ *Semester(s) in which the module is taught*	1
■ *Person(s) responsible for the module*	Armaeni Dwi Humaerah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 46.67h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS
■ *Credit points*	2 Credit Hours (2-0) □ 2.44 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Paper and Presentation 10%, Attitude 5%, Structured assignment 25%, Midterm exam 30%, Final exam 30%
■ *Intended learning outcomes*	
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.	
■ *Module content*	
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. Aflakpui, G. (2012). *Agricultural science*. Intech.
2. Augustine, P. C., Danforth, H. D., & Bakst, M. R. (Eds.). (1986). *Biotechnology for solving agricultural problems 1*. Springer.
3. Budiana, N. S., Sheaffer, C. C., & Moncada, K. M. (2012). *Introduction to agronomy: Food, crops, and environment*. Cengage Learning.
4. Hanifiyah, F., & Erdiansyah, I. (2021). *Pertanian Islam* [Islamic agriculture]. KHD Production.
5. Katyayan, A. (2011). *Fundamental of agriculture*. Kushal Publication and distributor.
6. Nasution, A. H. (2006). *Pengantar ke ilmu-ilmu pertanian* [Introduction to agricultural sciences]. PT. Pustaka Litera Antarnusa.
7. Nirmala, T., Suyono, A. D., Rodjak, A., Tarkus, S., Sadeli, N. S., Tualar, S., Hidayat, S., Yuyun, Y., Tuhpawana, P. S., Nursuhud, Y., Ani, Y., & Sofiya, H. (2012). *Pengantar ilmu pertanian* [Introduction to agricultural science]. Graha Ilmu.
8. Rayfield, J. S., Smith, K. L., Park, T. D., & Croom, D. B. (2015). *Principles of agriculture, food, and natural resources: Applied agriscience* (1st ed.). Goodheart-Wilcox.
9. Selvaraj, N., Anita, B., Anusha, B., & Saraswathi, M. G. (2006). *Organic horticulture: Creating a more sustainable farming*. Tamilnadu Agricultural University.
10. Setiawan, I., Dika, S., Siska, R., & Gunardi, J. (2018). *Pertanian postmodern* [Postmodern agriculture]. Penebar Swadaya.

SEMESTER 2

ENGLISH

■ *Module Name*	English
■ *Module level, if applicable*	Basic
■ *Module identification code*	UIN6014203
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Dr. Fahriany (Coordinator)
■ *Language*	Bilingual (Indonesian & English)
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 35.00 • Hours of Midterm and Final Exam Per Semester = 5.00 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 49.00 • Lecture (ECTS) = 2.97 • Practical (ECTS) = 0 Total ECTS = 2.97
■ *Credit points*	3 Credit Hours (3-0) ≈ 2.97 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Presentation assignment 30%, Mid-term test 30%, Final test40%.
■ *Intended learning outcomes*	
At the end of the program, students are expected to: 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 textbooks and journals related to science and technology	

■ *Module content*

Lecture (Class work)

1. Communicate in English clearly
2. Recognize English grammar correctly
3. Participate in 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*

1. Azar, B. S. (2005). *Understanding English grammar*. Pearson Longman Publisher.
2. Choy, P., et al. (2007). *Basic grammar and usage for Canadians*. Thomson Wadsworth.
3. Fahriany. (2017). *English for agribusiness*. International English Institute of Indonesia. ISBN.978-602-61737-3-7.
4. Kirn, E., & Jack, D. (2002). *Interaction 1: Grammar*. McGraw-Hill.
5. Razaq, O. (2010). *Test your own TOEFL score*. Pustaka Widyatama.
6. Sharpe, P. (2005). *Barron's TOEFL test* (11th ed.). Bina Aksara.
7. Wegmann, B., & Knezevic, M. P. (2002). *Mosaic 1: Reading* (4th ed.). McGraw-Hill Contemporary.
8. Woodward, S. W. (1997). *Fun with grammar*. Prentice-Hall.

Indonesian Language

■ *Module Name*	Indonesian Language
■ *Module level, if applicable*	Basic
■ *Module identification code*	NAS6013203
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Dona Aji K, S.Pd., M.Pd.
■ *Language*	Indonesian
■ *Relation to curriculum*	General Basic Courses
■ *Teaching methods, contact hours*	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
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 35.00 • Hours of Midterm and Final Exam Per Semester = 5.00 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 49.00 • Lecture (ECTS) =2.97 • Practical (ECTS) = 0 • Total ECTS =2.97
■ *Credit points*	3 Credit Hours (3-0) ≈ 2.97 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups • 100% Exam
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Formative 40%
■ *Intended learning outcomes*	
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 Indonesian grammar and spelling. 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.	

■ *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. Diction;
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, A., Nuryani, & Huda, S. (2019). The treasures of Indonesian: Interpreting Indonesian properly and correctly. In Media.
2. Arifin, E. Z., & Tasai, S. A. (2006). Carefully speaking Indonesian. Akademika Pressindo.
3. Akhadiah, S., & Ridwan, S. (1993). Coaching Indonesian writing skills. Airlangga.
4. Finoza, L. (2001). The composition of Indonesian. Diksi Insan Mulia.
5. Gani, R. A., & Fitriyah Z. A., M. (2010). Indonesian language discipline. PTIK Press.
6. Widjono, H. (2007). Bahasa Indonesia. Grasindo.
7. Keraf, G. (1993). Komposisi. Nusa Indah.
8. Putra, R. M. S. (2011). Kiat menghindari plagiat: How to avoid plagiarism. Indeks.

Secondary

1. Badudu, Y. (1994). Spelling Indonesian. Pustaka Prima.
2. Complicated Indonesian. (1985). Pustaka Prima.
3. Collin, J. T. (2005). Malay is the language of the world: Short history. Obor.
4. Kridalaksana, H. (2001). Linguistic dictionary. PT Gramedia Pustaka Utama.
5. Tim Penyusun. (2007). Great dictionary Indonesian. Pusat Bahasa.
6. Suyatno, & Jihad, A. (2009). How easy it is to write a scientific paper. Eduka.

Introduction of Accounting

■ *Module Name*	An Introduction of Accounting
■ *Module level, if applicable*	Basic
■ *Module identification code*	FEB6082201
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Akhmad Mahbubi, MM, Ph.D. (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course
■ *Teaching methods, contact hours*	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.
■ *Workload*	■ Total Hours Lecture (Face to Face) Per Semester = 23.33 ■ Hours of Midterm and Final Exam Per Semester = 3.33 ■ Total Hours Practical = 35.00 ■ Total Hours of Structure and Self Study Per Semester = 46.67 ■ Lecture (ECTS) = 2.44 ■ Practical (ECTS) = 2.83 ■ Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups • 100% Exam
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Formative 40%
■ *Intended learning outcomes*	
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.	
■ *Module Contents*	
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. Adjusting journal entry, and financial statement – the study case of trade company
7. Journal, ledger, adjusting journal entry, and financial statement of farm company (farm accounting)
8. Journal, ledger, adjusting journal entry, and financial statement – the study case of manufacture company
9. Job order costing, and process costing – accounting of manufacture company
10. Full costing and variable costing – accounting of manufacture company
11. Activity based costing – accounting of manufacture company
12. Accounting for the company alliance
13. Accounting for head and branches office

■ *Recommended Literatures*

Primary:

1. Horngren, H., Harrison, R., Robinson, & Secokusumo. (1998). *Akuntansi di Indonesia* [Accounting in Indonesia] (Buku I & Buku II). Salemba 4.
2. Munandar. (2004). *Prinsip dasar akuntansi* [Basic principles of accounting] (Edisi 1). BPFE.
3. Mulyadi. (2000). *Akuntansi biaya* [Cost accounting] (Edisi 5). Aditya Media.
4. Sulistina, B., Mark, B., Sari, E., & Uji, P. P. (2010). *Buku panduan manajemen dan pencatatan usahatani* [Management and farm recording guidelines book]. AMARTA, USAID.
5. Yusup, A. H. (1992). *Dasar-dasar akuntansi* [Fundamentals of accounting] (Edisi 4). STIE YKPN.

Secondary:

1. Aziz, M., Ichdayati, L., & Mahbubi, A. (2017). *Stock valuation of palm oil sector Indonesia security market*. Paper presented at the International Conference on Science, Technology, and Applications (ICOSAT 2017).

Plant Sciences

■ *Module Name*	Plant Science
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092024
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Junaidi (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 0.00 • Total ECTS = 2.44
■ *Credit points*	2 Credit Hours (2-0) ≈ 2.44 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
Students are able to understand and explain the meaning and scope of all aspects of plants, so they are able to recognize plants well.	
■ *Module Content*	
Lecture (class work): 1. Definition of plant science, plant structure and development 2. Plant taxonomy 3. External structure of vegetative organs 4. External structure of the reproductive organs 5. Plant anatomy (cells and tissues and organs) 6. Plant physiology 7. Transport in plants	

8. Plant ecology
9. Plant classification
10. Plant genetics
11. Reproductive system in plants
12. Control systems in plants
2. . Plant biochemistry

■ *Recommended Literature*

1 Hartana, A. (1992). *Genetika tumbuhan* [Plant genetics]. PAU Ilmu Hayat IPB.

2 Judd, W. S. (2016). *Plant systematics: A phylogenetic approach*. Sinauer Associates.

3 Nugroho, H., dkk. (2006). *Struktur dan perkembangan tumbuhan* [Structure and plant development]. Penebar Swadaya.

4 Nurdiana. (2021). *Taksonomi tumbuhan tinggi* [Taxonomy of higher plants]. Sanabil.

5 Sutrian, S. (2004). *Pengantar anatomi tumbuhan* [Introduction to plant anatomy]. Rineka Cipta.

6 Tatik Chikmawati, N. S. Ariyanti, N. R. Djuita, & S. S. Tjitroseoedirdjo. (2020). *Taksonomi tumbuhan tinggi* [Taxonomy of higher plants]. Universitas Terbuka.

7 Tjitrosomo, S. (2010). *Botani umum 1 dan 2* [General botany 1 and 2]. Angkasa.

8 Tjitrosoepomo, G. (1993). *Taksonomi tumbuhan* [Plant taxonomy]. Gadjah Mada University Press.

9 Tjitrosoepomo, G. (2003). *Morfologi tumbuhan* [Plant morphology]. Gadjah Mada University Press.

Practice of Plant Science

■ *Module Name*	Practice of Plant Science
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092025
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Junaidi
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 0.00 • Hours of Midterm and Final Exam Per Semester = 4.00 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 23.33 • Lecture (ECTS) = 0.00 • Practical (ECTS) = 2.08 • Total ECTS = 2.08
■ *Credit points*	1 Credit Hours (0-1) 2.08 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation as well as farm tools and equipment
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Report10%, Structured assignment 30%
■ *Intended learning outcomes*	
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)
Plant reproduction (crosses in plants)

■ *Recommended Literature*

1 Hartana, A. (1992). *Genetika tumbuhan* [Plant genetics]. PAU Ilmu Hayat IPB.

2 Judd, W. S. (2016). *Plant systematics: A phylogenetic approach*. Sinauer Associates.

3 Nugroho, H., dkk. (2006). *Struktur dan perkembangan tumbuhan* [Structure and plant development]. Penebar Swadaya.

4 Nurdiana. (2021). *Taksonomi tumbuhan tinggi* [Taxonomy of higher plants]. Sanabil.

5 Sutrian, S. (2004). *Pengantar anatomi tumbuhan* [Introduction to plant anatomy]. Rineka Cipta.

6 Tatik Chikmawati, N. S. Ariyanti, N. R. Djuita, & S. S. Tjitroseoedirdjo. (2020). *Taksonomi tumbuhan tinggi* [Taxonomy of higher plants]. Universitas Terbuka.

7 Tjitrosomo, S. (2010). *Botani umum 1 dan 2* [General botany 1 and 2]. Angkasa.

8 Tjitrosoepomo, G. (1993). *Taksonomi tumbuhan* [Plant taxonomy]. Gadjah Mada University Press.

9 Tjitrosoepomo, G. (2003). *Morfologi tumbuhan* [Plant morphology]. Gadjah Mada University Press

TECHNOPRENEURSHIP

■ *Module Name*	Technopreneurship
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092035
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Achmad Tjachja Nugraha (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 32.67 • Lecture (ECTS) = 1.98 • Practical (ECTS) = 0.00 • Total ECTS = 1.98
■ *Credit points*	2 Credit Hours (2-0) = 1.98 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Present 20%, Task 20%, Mid-term Exam 30%, Final Exam 30%
■ *Intended learning outcomes*	
This course provides comprehensive knowledge of trade developments to modern business models. 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. Students are able to create a comprehensive simple business model, and are able to provide simple business results in real form. Students are able to internalize the spirit of independence, struggle, and entrepreneurship to achieve perfect results. 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 implementation 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 businesspeople)
13. Technology implementation (business efficiency and effectiveness)
14. Business packaging
15. Advertising in Business Implementation

■ *Recommended Literature*

1. ITS Technopreneurship Development Team. (2015). *Technopreneurship*. ITSPress.
2. Longenecker, J. G., Moore, C. W., & Petty, J. W. (2000). *Small business management*. South-Western College Publishing.
3. Madura, J. (2001). *Introduction to business* (2nd ed.). South-Western College Publishing.
4. Mudjiarto, & Wahid, A. (2008). *Entrepreneurship: Motivation and achievement in entrepreneurial career*. UIEU University Press.
5. PKM Higher Education Guidelines. (2016). *Pedoman program kreativitas mahasiswa pendidikan tinggi* [Guidelines for the student creativity program for higher education].
6. Wiratmo, M. (2006). *Pengantar kewirausahaan* [Introduction to entrepreneurship]. BPFE Publisher.

AGRICULTURAL COMMUNICATION

■ *Module Name*	Agricultural Communication
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092007
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Ujang Maman (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 2.83 • Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 35%, Paper and Presentation15%, Attitude 5%, Individual Task 15%

■ *Intended learning outcomes*

1 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.

2 Students have knowledge of communication 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 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 supporters);

5. Determine priority programs in planning a communication;
6. Evaluate and follow up on the results of the communication process
7. Communication program planning & evaluation models
8. Dimensions and hierarchy of communication effects (based on channels, messages, and audiences);
9. Communications, Marketing, and Social Marketing;
10. Islamic ethics in communication.

■ *Recommended Literature*

Main:

1. Maman, U., et al. (2015). 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*, *23*(12), 2927–2936.
2. Maman, U., et al. (2018). Adoption of farmer field school to develop entrepreneurship: The case of paddy seed growers and small business trainees in Indonesia. In *Advances in intelligent systems research* (Vol. 149). Atlantis Press.
3. Rogers, E. M. (1983). *Diffusion of innovation* (3rd ed.). The Free Press.
4. Soekartawi. (1988). *Prinsip dasar komunikasi pertanian* [Basic principles of agricultural communication]. Universitas Indonesia.

Support:

11. Articles from websites and other appropriate media.

AGRICULTURAL SOCIOLOGY

■ *Module Name*	Agricultural Sociology
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092004
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Ujang Maman (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 46.67 ● Lecture (ECTS) = 2.44 ● Practical (ECTS) = 2.83 ● Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Paper and Presentation 15%, Attitude 5%, Structured assignment 25%, Midterm exam 25%, Final exam 30%
■ *Intended learning outcomes*	
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	
■ *Module content*	
<u>Lecture (Class work)</u> 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 Literature*

1 Maman, U., et al. (2017). 'Al-musaqah' and sharia agribusiness system: An alternative way to meet staple food self sufficiency in contemporary Indonesia. *Hunafa: Jurnal Studia Islamika*, *14*(2), 189–231. https://doi.org/10.24239/jsi.v14i2.448.189-231

2 Maman, U., et al. (2018). From single to dual system: Initiating the model of wet rice field management to optimize staple food availability. *Journal of Engineering and Applied Sciences*, *13*(21), 9259–9268. https://docsdrive.com/pdfs/medwelljournals/jeasci/2018/9259-9268.pdf

3 Maman, U., et al. (2018). Mitigation of wetland conversion risk in post-harvest phase to optimize staple food availability. *Journal of Engineering and Applied Sciences*, *13*(8), 2003–2012. https://medwelljournals.com/abstract/?doi=jeasci.2018.2003.2012

4 Rahardjo. (2017). *Pengantar sosiologi pedesaan dan pertanian* [Introduction to rural and agricultural sociology] (Revised ed.). UGM Press.

5 Scott, J. C. (2019). *Moral ekonomi petani* [Farmer economic morals] (Revised ed.). LP3ES.

6 Tjondronegoro, S. M. P., & Wiradi, G. (2008). *Dua abad penguasaan tanah* [Two centuries of land tenure]. Yayasan Obor Indonesia.

Introduction to Agro-industrial Material Properties

■ *Module Name*	Introduction to Agro-industrial Material Properties
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092022
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Agustina Senjayani
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The courses are delivered through lectures enriched with relevant examples and followed by short discussion. 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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 0.00 • Total ECTS = 2.44
■ *Credit points*	2 Credit Hours (2-0) = 2.44 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation, video material (flipped classroom)
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
● The course provides an overview of the sources and types of agricultural products 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. ● 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	

■ *Module Content*

Lecture (Class work)

Introduction; Fruit and vegetables; Cereal and Legumes; Tubers; Fresheners (Tea, Coffee, Cocoa) and Spices; Oil and Fat; Handling of vegetable materials (different commodities per group) in traditional and modern markets; meat; poultry; dairy; egg; fish; Package and Packaging; Animal based material Handling

■ *Recommended Literature*

Primary:

1 Brennan, J. G. (2006). Food processing handbook (Chap. I). WILEY-VCH Verlag GmbH & Co. KGaA.

2 Muchtadi, T. R., dkk. (2010). *Ilmu pengetahuan bahan pangan* [Food material science]. Alfabeta.

3 Syarief, R., & Irawati, A. (1988). *Pengetahuan bahan untuk industri pertanian* [Material knowledge for agricultural industry]. PT. MadyaTama Sarana Perkasa.

4 Winarno, F. G. (1995). *Kimia, pangan, dan gizi* [Chemistry, food, and nutrition].

Secondary:

1. Fitriana, Z., Dwiningsih, E., & Senjayani, A. (2021). *Study on quality control of fried tofu production in RAF SME, Serang Banten*.
2. Koentjoro, D., Nugraha, & Senjayani, A. (2020). *Analisis risiko distribusi makanan olahan beku di PT Salimah Prima Cipta Tangerang Selatan* [Risk analysis of frozen processed food distribution at PT Salimah Prima Cipta South Tangerang].
3. Riansyah, R., Muhib, A., & Senjayani, A. (2022). *Purchasing decision of meat product in Tukang Sayur Apps during Covid-19 pandemic*.
4. Senjayani, A. (Ed.). (2022). *Field study report: Penanganan bahan hewani di 6 pasar tradisional di Tangerang* [Field study report: Handling of animal products in 6 traditional markets in Tangerang]. (Laporan Studi Lapangan).
5. Senjayani, A. (2021, 1 Oktober). *Penerapan bahan tambahan pangan (BTP)* [Application of food additives (BTP)]. (PPT Workshop Pendampingan UKM Pangan Banten). FASDA BPOM.

ELEMENTARY STATISTICS

■ *Module Name*	Elementary Statistics
■ *Module level, if applicable*	-
■ *Module identification code*	FST6094106
■ *Semester(s) in which the module is taught*	2
■ *Person(s) responsible for the module*	Rizki Adi Puspita Sari, MM
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 46.67 ● Lecture (ECTS) = 2.44 ● Practical (ECTS) = 2.83 ● Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination* ■ *requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Present 5%, Attitude 5%, Assignment structured 30%, Mid-term test 30%, Final test 30%.
■ *Intended learning outcomes*	
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 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 Literature*

1. Lin, D. A., Marchal, W. G., & Wathen, S. A. (2014). *Statistical techniques in economics and business* (Vols. 1 & 2). Salemba Empat.
2. Walpole, R. E. (1995). *Pengantar statistika* [Introduction to statistics] (Edisi 3). Gramedia.
3. Heumann, C., Schomaker, M., & Shalabh. (2018). *Introduction to statistics and data analysis: With examples in R* (2nd ed.). Springer.
4. Triola, M. F. (2021). *Elementary statistics* (14th ed.). Pearson.

SEMESTER 3

ECONOMICS AND BUSINESS MATHEMATICS

■ *Module Name*	Economics and Business Mathematics
■ *Module level, if applicable*	-
■ *Module identification code*	FEB6083204
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Eny Dwiningsih (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 25%, Attitude 5%
■ *Intended learning outcomes*	
1 Students are able to apply religious, national, and ethical values 2 Students have knowledge of agribusiness management, agricultural socioeconomics and other related knowledge 3 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. (2003). *Applied mathematics for business and economics*. BPFE.

Secondary:

1. Asano, A. (2013). An introduction to mathematics for economics. Cambridge University Press.
2. Assauri, S. (2002). Matematika ekonomi [Economic mathematics]. PT Raja Grafindo Persada.
3. Budnick, S. F. (1993). Applied mathematics for business, economics, and the social sciences (4th ed.). McGraw-Hill.
4. Chiang, A. C. (1984). Fundamental methods of mathematical economics (3rd ed.). McGraw- Hill.
5. Dowling, E. T. (1992). Introduction to mathematical economics (2nd ed.). McGraw-Hill.
6. Kalangi, J. B. Mathematics for economics and business.
7. Wirawan, N. (2003). Cara mudah memahami matematika ekonomi [Easy way to understand economic mathematics] (Ed. ke-4). Keraras Emas.
8. Weber, J. E. (1982). Analisis matematika, aplikasi bisnis dan ekonomi [Mathematical analysis, application of business and economics] (Vol. 1 & 2, Ed. ke-4). (S. Kakicina, Trans.). Erlangga. (Original work published 1976).

AGRICULTURAL ECONOMICS

■ *Module Name*	Agricultural Economics
■ *Module level,if applicable*	
■ *Module identification code*	FST6092006
■ *Semester(s) in which the module is* ■ *taught*	3
■ *Person(s)* ■ *responsible for the module*	Achmad Tjachja Nugraha (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Individual Task 10%, Team Task 10%, Quiz 10%
■ *Intended learning outcomes*	
1 This course provides comprehensive knowledge of economic and agricultural principles 2 Adding insight into the essence of demand theory, production theory, price theory to implementation in various market structures in agricultural development. 3 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

1. Hill, B. (2021). An introduction to economics: Concepts for students of agriculture and the rural sector. CABI.
2. Moser, P. (2020). Economics of research and innovation in agriculture. National Bureau of Economic Research.

AGRICULTURAL COMMUNICATION

■ *Module Name*	Agricultural Communication
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092007
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Ujang Maman (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 25%, Final exam 30%, Paper and Presentation 25%, Attitude 5%, Individual Task 15%

■ *Intended learning outcomes*

1 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.

2 Students have knowledge of communication 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 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 supporters);
5. Determine priority programs in planning a communication;
6. Evaluate and follow up on the results of the communication process
7. Communication program planning & evaluation models
8. Dimensions and hierarchy of communication effects (based on channels, messages, and audiences);
9. Communications, Marketing, and Social Marketing;
10. Islamic ethics in communication

■ Recommended Literature

1. Bochtis, D. D., Moshou, D. E., & Vasileiadis, G. (2022). *Information and communication technologies for agriculture—Theme II: Data*. Springer Nature.
2. Deshmukh, G., Dhabadge, K., Kuvlekar, N., & Kumbhar, V. (2018). E-business in agriculture for effective communication between merchants and farmers.
3. Eise, J., & Hodde, W. (2016). *The communication scarcity in agriculture*. Routledge.
4. Maman, U., et al. (2015). The effectiveness of farmer field school in dissemination of innovation: The case of orchid farmers in Tangerang Banten and the onion farmers in Brebes Central Java. *Middle East Journal of Scientific Research*, *23*(12), 2927–2936.
5. Maman, U., et al. (2018). Adoption of farmer field school to develop entrepreneurship: The case of paddy seed growers and small business trainees in Indonesia. In *Advances in intelligent systems research* (Vol. 149). Atlantis Press.
6. Rogers, E. M. (1983). *Diffusion of innovation* (3rd ed.). The Free Press.
7. Soekartawi. (1988). *Prinsip dasar komunikasi pertanian* [Basic principles of agricultural communication]. Universitas Indonesia.

Fundamentals of Agronomy

■ *Module Name*	Fundamentals of Agronomy
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092124
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Junaidi
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =00.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS
■ *Credit points*	2 Credit Hours (2-0) 2.44 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Plant Science
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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*	
<u>Lecture (Class work)</u> 1. The definition of agronomy and agronomic actions 2. Agriculture, energy and its components 3. Soil and plant environment 4. Plant Growth and Production 5. Business and basic principles of plant production 6. Land work and irrigation	

7. Fertilizer and fertilization
8. Plant protection
9. Soil damage and efforts to maintain soil fertility
10. Plant reproduction
11. Genetic engineering through biotechnology

■ *Recommended Literature*

1 Arya, R. L. (2020). *Fundamentals of agronomy*. Scientific Publishers.

2 Hardin, G., & Bajema, C. (1978). *Biology: Its principles and implications*. W. H. Freeman and Company.

3 Hardjowigeno, S. (1992). *Ilmu tanah* [Soil science]. Mediatama Sarana Perkasa.

4 Harjadi, S. S. (1979). *Pengantar agronomi* [Introduction to agronomy]. Gramedia.

5 Jumin, H. B. (2010). *Dasar-dasar agronomi* [Fundamentals of agronomy] (Edisi Revisi). Rajawali Press.

6 Lorenz, K., & Lal, R. (2016). Environmental impact of organic agriculture. In *Advances in agronomy* (Vol. 139). Academic Press Inc.

7 Singh, R. P., Prasad, P. V. V., & Reddy, K. R. (2013). Impacts of changing climate and climate variability on seed production and seed industry. In *Advances in agronomy* (Vol. 118). Academic Press Inc.

8 Syukur, M., Sujiprihati, S., & Yunianti, R. (2002). *Teknik pemuliaan tanaman* [Plant breeding techniques].

Practical Fundamental of Agronomy

■ *Module Name*	Practical Fundamental of Agronomy
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092125
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Junaidi
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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
■ *Workload*	• Total hours lecture (face to face) per semester = 0.00 h • Hours of midterm and final exam per semester = 0.00 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 0.00 h • Lecture (ECTS) = 0.00 ECTS • Practical (ECTS) = 1.17 ECTS
■ *Credit points*	1 Credit Hours (2-0) 1.17 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Plant Science
■ *Media employed*	garden farm, tools and equipment for cultivation, tools for irrigation.
■ *Forms of assessment*	Practical exam 50%, Present 20%, Structured assignment 30%
■ *Intended learning outcomes*	
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	
■ *Module Content*	
<u>Lecture (Class work)</u> 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 Literature*

1 Hardin, G., & Bajema, C. (1978). *Biology: Its principles and implications*. W. H. Freeman and Company.

2 Hardjowigeno, S. (1992). *Ilmu tanah* [Soil science]. Mediatama Sarana Perkasa.

3 Harjadi, S. S. (1979). *Pengantar agronomi* [Introduction to agronomy]. Gramedia.

4 Jumin, H. B. (2010). *Dasar-dasar agronomi* [Fundamentals of agronomy] (Edisi Revisi). Rajawali Press.

5 Kumar, K., Singh, A., Pandey, S., & Mehra, R. (2025). *A practical manual on fundamentals of agronomy*. Bhumy Publishing.

6 Syukur, M., Sujiprihati, S., & Yunianti, R. (2002). *Teknik pemuliaan tanaman* [Plant breeding techniques].

SEED PRODUCTION

■ *Module Name*	SEED PRODUCTION
■ *Module level, if applicable*	Beginner (Foundational Courses)
■ *Module identification code*	FST6092026
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Titik Inayah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =0.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 1.67 ECTS
■ *Credit points*	2 Credit Hours (2-0) ≈ 4.11 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Plant Science
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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.	
■ *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. Chaudhary, M., Kumar, A., & Yadav, A. (2020). Techniques of seed production. AkiNik Publications.
2. Copeland, L. O., & Miller, B. M. (1995). Seed science and technology (3rd ed.).
3. George, R. A. T. (2011). Agricultural seed production. CABI.
4. Kamil, J. (1982). Teknologi benih 1 [Seed technology 1]. Angkasa.
5. Khanal, N. P., & Maharjan, K. L. (2015). Community seed production sustainability in rice-wheat farming 1. In Community seed production sustainability in rice-wheat farming. Springer.
6. Kuswanto, H. (1996). Dasar-dasar teknologi, produksi dan sertifikasi benih [Fundamentals of seed technology, production and certification]. Andi Offset.
7. Peraturan Pemerintah Nomor 12 Tahun 2018 tentang Produksi, Sertifikasi dan Peredaran Benih Tanaman [Government Regulation No. 12 of 2018 on Production, Certification and Distribution of Plant Seeds]. (2018).
8. Sadjad, S. (1993). Dari benih untuk benih [From seed for seed]. Grasindo.
9. Sudikno, T. S. (1977). Teknologi benih [Seed technology]. Yayasan Pembina Fakultas Pertanian UGM.
10. Sutopo, L. (1993). Teknologi benih [Seed technology]. PT Raja Grafindo Persada.
11. Wahyu, M. Q., & Setiawan, A. (1991). Produksi benih [Seed production]. Bumi Aksara.

PRODUCTION MANAGEMENT

■ *Module Name*	Production Management
■ *Module level, if applicable*	Basic
■ *Module identification code*	FEB6081332
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Rizki Adi Puspita Sari (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total hours lecture (face to face) per semester = 23.33 h ● Hours of midterm and final exam per semester = 3.33 h ● Total hours practical =35.00 h ● Total hours of structure and self study per semester = 46.67 h ● Lecture (ECTS) = 73.33 : 30 = 2.44 ECTS ● Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0) 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Fundamental of management
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Present 10%, Attitude 5%, Structured assignment 15%, Midterm exam 30%, Final exam 40%
■ *Intended learning outcomes*	
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)	
■ *Module content*	

Lecture (Class work)

1. Overview of Agribusiness Production Management (Sub CPMK 1)
2. Global 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 Literature*

Main:

1. Heizer, J., & Render, B. (2014). *Operations management: Sustainability and supply chain management* (11th ed.). Pearson Education Ltd.

Support:

1. Handoko, T. H. (2000). *Dasar-dasar manajemen produksi dan operasi* [Fundamentals of production and operations management].
2. Hill, A., & Hill, T. (2012). *Operations management* (3rd ed.). Palgrave Macmillan.
3. Slack, N., Brandon-Jones, A., & Johnston, R. (2016). *Operations management*. Pearson Education Ltd.
4. Stevenson, W. (2011). *Operations management*. McGraw-Hill Publishing.

Agricultural Trading System

■ *Module Name*	Agricultural Trading System
■ *Module level, if applicable*	Intermediate
■ *Module identification code*	FST6092011
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Elpawati (Coordinator)
■ *Language*	Bilingual (Indonesian and English)
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	■ Total hours of lecture (face to face) per semester = 23.33 h ■ Hours of midterm and final exam per semester = 3.33 h ■ Total hours practical =35.00 h ■ Total hours of structure and self-study per semester = 46.67 h ■ Lecture (ECTS) = 73.33: 30 = 2.44 ECTS ■ Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Presence 5%, Structured assignment (individual & group) 35%
■ *Intended learning outcomes*	
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.	
■ *Module Content*	
<u>Lecture (Classwork)</u> 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 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

Government policy regarding agricultural trading systems

■ *Recommended Literature*

Main:

1. Aksoy, M. A., & Beghin, J. (2005). *Global agricultural trade and developing countries*. The International Bank for Reconstruction and Development / The World Bank.
2. Anindita, R., & Baladina, N. (2017). *Pemasaran produk pertanian* [Marketing of agricultural products] (Edisi 1). ANDI.
3. Armad, S. (2004). *Pemasaran pertanian* [Agricultural marketing]. UMM.
4. Asmarantaka, R. W. (2013). *Pemasaran agribisnis (Agrimarketing)*. Departemen Agribisnis, FEB-IPB.
5. Azzaino. (2011). *Pengantar tataniaga pertanian* [Introduction to agricultural trade]. Departemen Ilmu-Ilmu Sosial Ekonomi Pertanian, Fakultas Pertanian. IPB.
6. Baye, M. R. (2010). *Managerial economics and business strategy* (7th ed.). McGraw-Hill.
7. Dessie, A. B., et al. (2019). Analysis of red pepper marketing: Evidence from Northwest Ethiopia. *Journal of Economic Structures*, *8*(24).
8. Irianto, H., & Widiyanti, E. (2013). Analisis value chain dan efisiensi pemasaran agribisnis jamur kuping di kabupaten Karanganyar [Value chain analysis and marketing efficiency of oyster mushroom agribusiness in Karanganyar district]. *Journal SEPA*, *9*(2).
9. Koutsoyiannis, A. (1977). *Theory of econometrics: An introductory exposition of econometric methods* (2nd ed.). The Macmillan Press Ltd.
10. Schrimper, R. (2001). *Economics of agricultural markets*. Prentice Hall.
11. Siswadi, B., Asnah, & Dyanasari. (2020). *Integrasi pasar dan transmisi harga dalam pasar pertanian* [Market integration and price transmission in agricultural markets]. Deepublish.

Support:

1, Relevant research results and scientific articles

2. Data from the government and other institutions/agencies

3. News from trusted media

AGRIBUSINESS MANAGEMENT

■ *Module Name*	Agribusiness Management
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092014
■ *Semester(s) in which the module is taught*	3
■ *Person(s) responsible for the module*	Acep Muhib (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Paper and Presentation 20%, Attitude 5%, Individual Task Structure 15 %
■ *Intended learning outcomes*	
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, potential 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 Literature*	
1. Barnard, F., Akridge, J., Dooley, F., & Foltz, J. Barnard, F., Akridge, J., Dooley, F., & Foltz,	

J. (2012). *Agribusiness management*. Routledge.

2. Downey, W. D., & Erickson, S. P. Downey, W. D., & Erickson, S. P. (2004). *Manajemen agribisnis* [Agribusiness management]. PT. Erlangga.
3. Fleet, D. V., Fleet, E. V., & Seperich, G. Fleet, D. V., Fleet, E. V., & Seperich, G. (2014). *Agribusiness: Principle of management*. Delmar-Cengage Learning.
4. Firdaus, M. (Baru) Firdaus, M. (2018). *Manajemen agribisnis* [Agribusiness management]. Bumi Aksara.
5. Manurung, A. H., et al. (Baru) Manurung, A. H., Tita, S., & Heri, A. (2024). *Manajemen agribisnis modern* [Modern agribusiness management]. UMG Press. *Catatan: Nama penulis disimpulkan dari entri yang ditemukan.*
6. Pandey, M., & Tewari, D. Pandey, M., & Tewari, D. (2010). *The agribusiness book: A marketing and value-chain perspective*. IBDC Publishers.

SEMESTER 4

PLANT PROTECTION

■ *Module Name*	PLANT PROTECTION
■ *Module level, if applicable*	Beginner (Foundational Courses)
■ *Module identification code*	FST6092027
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Titik Inayah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 and given structured assignments, and each group was assigned to work on a specific topic relevant to the lecture.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 37.33 • Lecture (ECTS) =2.13 • Practical (ECTS) = 0 • Total ECTS = 2.13 ECTS
■ *Credit points*	2 Credit Hours (2-0) 2,13 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Plant Science and Fundamentals of Agronomy
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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	
■ *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, Seedges, 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. Kerruish. (1997). *Plant protection 3 selected ornamentals, fruit and vegetables* (2nd ed.).
2. Kerruish, & Unger. (2006). *Plant protection 4 how to diagnose plant problems* (Ebook).
3. Kerruish, & Unger. (2010). *Plant protection 1, pests, diseases, weeds* (4th ed.).
4. Mohammadi, H., et al. (2020). Management of the root-knot nematode, *Meloidogyne javanica*, with non-chemical products on greenhouse-grown tomatoes. *Journal of Advances in Plant Protection*, *4*(2). Retrieved from https://japp.uk.ac.ir/
5. Puspitorini, P., Serdani, A. D., Endrawati, T., Kunharjanti, A. W., & Purwatiningsih, R. (2024). *Perlindungan tanaman* [Plant protection]. Lakeisha.
6. Peraturan Pemerintah Nomor 6 Tahun 1995 tentang Perlindungan Tanaman [Government Regulation No. 6 of 1995 concerning Plant Protection]. (1995).
7. Peraturan Pemerintah Nomor 7 Tahun 1973 tentang Pengawasan Atas Peredaran, Penyimpanan, dan Penggunaan Pestisida [Government Regulation No. 7 of 1973 concerning Control over the Distribution, Storage, and Use of Pesticides]. (1973).
8. Triharso. (1996). *Dasar-dasar perlindungan tanaman* [Fundamentals of plant protection]. Gadjah Mada University Press.

PRACTICE OF PLANT PROTECTION

■ *Module Name*	PRACTICAL OF PLANT PROTECTION
■ *Module level, if applicable*	Beginner (Foundational Courses)
■ *Module identification code*	FST6092127
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Titik Inayah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 0.00 • Hours of Midterm and Final Exam Per Semester = 4.00 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 23.33 • Lecture (ECTS) = 0.00 • Practical (ECTS) = 2.08 • Total ECTS = 2.08
■ *Credit points*	1 Credit Hours (0-3) 2.08 ECTS
■ *Admission and examination requirements*	• Enrolled in this practical • 100% attendance in practical
■ *Recommended prerequisites*	Plant Protection
■ *Media employed*	Practical guidebook, farm tools and equipment
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Lab Report 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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	
■ *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*

1. Kerruish. (1997). *Plant protection 3 selected ornamentals, fruit and vegetables* (2nd ed.).
2. Kerruish, & Unger. (2006). *Plant protection 4 how to diagnose plant problems* (Ebook).
3. Kerruish, & Unger. (2010). *Plant protection 1, pests, diseases, weeds* (4th ed.).
4. Mohammadi, H., et al. (2020). Management of the root-knot nematode, *Meloidogyne javanica*, with non-chemical products on greenhouse-grown tomatoes. *Journal of Advances in Plant Protection*, *4*(2). Retrieved from https://japp.uk.ac.ir/
5. Puspitorini, P., Serdani, A. D., Endrawati, T., Kunharjanti, A. W., & Purwatiningsih, R. (2024). *Perlindungan tanaman* [Plant protection]. Lakeisha.
6. Peraturan Pemerintah Nomor 6 Tahun 1995 tentang Perlindungan Tanaman [Government Regulation No. 6 of 1995 concerning Plant Protection]. (1995).
7. Peraturan Pemerintah Nomor 7 Tahun 1973 tentang Pengawasan Atas Peredaran, Penyimpanan, dan Penggunaan Pestisida [Government Regulation No. 7 of 1973 concerning Control over the Distribution, Storage, and Use of Pesticides]. (1973).
8. Triharso. (1996). *Dasar-dasar perlindungan tanaman* [Fundamentals of plant protection]. Gadjah Mada University Press.

Sharia Financing and Investment

■ *Module Name*	Sharia Financing and Investment
■ *Module level, if applicable*	Intermediate
■ *Module identification code*	FEB6085008
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Dewi Rohma Wati (Coordinator)
■ *Language*	Bilingual (Indonesian & English)
■ *Relation to curriculum*	Compulsory Course for Undergraduate Program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 2.83 • Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Accounting, Agribusiness Management
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Presence 10%, Structured assignment (individual & group) 30%
■ *Intended learning outcomes*	
This course discusses important business/business financing concepts in the agricultural sector (agribusiness). Topics discussed are financial institution's types and functions, financing policies, financial business in the farming sector, and business investment with sharia concepts.	
■ *Module content*	
<u>Lecture (Classwork)</u> 1. Characteristics of the agricultural sector and agribusiness businesses in Indonesia, classification of agribusiness businesses, 2. The role of Sharia financing and investment in agribusiness, 3. policies related to Sharia financing and investment systems for agribusiness, 4. The sources and financial decisions, both internal and external,	

5. The type of financial services institution (bank and non-bank, conventional and sharia),
6. Sharia investment, its concept and objectives in Islam, as well as its principles and types,
7. Investing in the money market, capital market, and Sharia mutual funds,
8. Productive use of zakat and waqf as sharia investment for the agricultural sector
9. Financial planning and control (financial reports, budgeting, asset management, financing needs),
10. The implementation of sharia business for agribusiness

■ *Recommended Literature*

Main:

1. Ernawati, N., & Handayani, R. T. (2021). *Manajemen keuangan dan investasi* [Financial management and investment]. Badan Penerbit Universitas Muria Kudus.
2. Hearth, H. M. W. A. (2018). *Microfinance: Theory and practice*. Godage & Brothers (Pvt).
3. Irwantoro. (2017). *Pengembangan lembaga keuangan non bank bagi usaha perempuan* [Development of non-bank financial institutions for women's businesses]. Zifatama.
4. Jugale, V. B. (1991). *Theories of agricultural finance*. Atlantic Publishers and Distributors.
5. Nazrina, N., & Putra, A. (2018). *Manajemen pembiayaan bank syariah* [Sharia bank financing management]. Cahaya Firdaus.
6. Obst, W. J., Graham, R., & Christie, G. (2007). *Financial management for agribusiness*. LandLinks.
7. Rahmawati, N. (2015). *Manajemen investasi syariah* [Sharia investment management]. IAIN Mataram.
8. Syahputra, A. (2020). *Investasi syariah (Konsep dan ragam jenis investasi sesuai syariat Islam)* [Sharia investment (Concepts and various types of investment according to Islamic law)]. Amara Books.

Support:

1. De Aghion, B. A., & Morduch, J. (2005). The economics of microfinance. MIT Press.
2. Ikatan Bankir Indonesia. (2014). Mengelola kredit secara sehat [Managing credit healthily]. Gramedia Pustaka Utama.
3. Ikatan Bankir Indonesia. (2015). Bisnis kredit perbankan [Banking credit business]. Gramedia Pustaka Utama.
4. Mpalasi, P. (2020). Diversifikasi usaha tani dan investasi [Diversification of farming and investment]. CV. Kanaka Media.
5. Sarma, M., & Pais, J. (2008). Financial inclusion and development: A cross country analysis.

Other Relevant References:

1. National and international research results and scientific articles
2. Legislation and other regulations relevant to lecture material

SUPPLY CHAIN MANAGEMENT

■ *Module Name*	Supply Chain Management
■ *Module level, if applicable*	Intermediate
■ *Module identification code*	FEB6081333
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Zulmaneri Manir (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 2.83 • Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Introduction to Agribusiness, Agribusiness Management
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 25%, Final exam 25%, Structured Task 40%, Present 5%, Attitude 5%

■ *Intended learning outcomes*

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*
1. Collier, D. A., & Evans, J. R. (2019). *Operations and supply chain management* (2nd ed.). Cengage Learning. 2. Pazhani, S. (2021). *Design and analysis of closed-loop supply chain networks*. Routledge. Retrieved from https://www.routledge.com/Design-and-Analysis-of-Closed-Loop-Supply-Chain-Networks/Pazhani/p/book/9780367537517 3. Porter, M. E. (1985). *The competitive advantage: Creating and sustaining superior performance*. Free Press. 4. Tunggal, A. W. (2011). *Dasar-dasar manajemen operasi dan rantai pasokan* [Basics of operation and supply chain management]. PT. Dunia Pustaka Jaya.

FARM MANAGEMENT

■ *Module Name*	Farm Management
■ *Module level,if applicable*	Intermediate
■ *Module identification code*	FST6092009
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Lilis Imamah Ichdayati (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 2.83 • Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	All of study courses in *Semester* 1 - 3
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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.	
■ *Module content*	
1. Definition of farming, agricultural science, and classification of farming 2. Identify the trinity of farmers, land, crops, fish and livestock	

3. Identify and analyze the main elements of farming
4. Determine and analyze the factors that affect the success of farming
5. Understand the development of farming in Indonesia until the era of digitalization
6. Understand farm development in various sectors and commodities that affect the success of farming
7. Take to the field to take data (collect primary data with farmer respondents)
8. Theme: Agricultural Commodity Production
9. Able to understand and implement agricultural research
10. Able to make farm bookkeeping
11. Able to analyze agricultural economics
12. Able to compile and analyze the cost structure and income of farmers in Indonesia
13. Collect primary data from farmer respondents
14. Theme: Agricultural Commodity Farm Bookkeeping
15. Understand and be able to apply farm planning

■ *Recommended literatures*

Main:

1. Hernanto, F. (1995). *Ilmu usahatani* [Agricultural science]. Penebar Swadaya.
2. Sinta, A. (2011). *Ilmu usahatani* [Agricultural science]. UB Press.
3. Soekartawi. (1986). *Ilmu usahatani* [Agricultural science].
4. Soekartawi. (2006). *Analisis usahatani* [Farm analysis]. UI-Press.
5. Suratiyah, K. (2015). *Ilmu usahatani* [Farm science] (Revised ed.). Penebar Swadaya.

Supporting

1. Arifin. (2015). *Pengantar ekonomi pertanian* [Introduction to agricultural economics]. CV. Mujahid Press.
2. Boediono. (2014). *Ekonomi mikro* [Microeconomics]. BPFE.
3. Kasmir. (2016). *Analisis laporan keuangan* [Financial statement analysis]. Raja Grafindo Persada.
4. Nurmalina, R., Sarianti, T., & Karyadi, A. (2017). *Studi kelayakan bisnis* [Business feasibility study]. IPB Press.
5. Omar, H. (2015). *Studi kelayakan bisnis* [Business feasibility study] (3rd ed.). Gramedia Pustaka Utama.
6. Padangaran, J. (2013). *Analisis kuantitatif pembiayaan usaha pertanian* [Quantitative analysis of agricultural enterprise financing]. IPB Press.

Industrial Microbiology

■ *Module Name*	Industrial Microbiology
■ *Module level, if applicable*	Intermediate
■ *Module identification code*	FST6095233
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Agustina Senjayani
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 37.33 • Lecture (ECTS) = 2.13 • Practical (ECTS) = 0.00 • Total ECTS = 2.13
■ *Credit points*	3 Credit Hours (2-0) = 2.13ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation, flipped classroom
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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. 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	
■ *Module content*	
Lecture (Class work) 1. Introduction to Industrial Microbiology 2. Nutrition, growth and metabolism of microbes	

3. Metabolic pathways of industrial microbial biosynthetic products
4. Media and sources of microbial nutrition in the microbial industry
5. Fermenter: operation, extraction and sterilization of industrial microbial products)
6. Solid Substrate Fermentation
7. Liquid Substrate Fermentation
8. Production of Functional Compounds
9. Probiotics
10. Bioethanol
11. Single Cell Protein
12. Inoculum Production
13. Biosurfactant Production
14. Pigmen Production

■ *Recommended literatures*

1. Hidayat, N., dkk. (2018). *Mikrobiologi industri pertanian* [Agricultural industrial microbiology]. UB Press.
2. Jay, J. M., Loessner, M. J., & Golden, D. A. (2005). *Modern food microbiology* (7th ed.). Springers Science.
3. Okafor, N., & Okeke, B. C. (2017). *Modern industrial microbiology and biotechnology* (2nd ed.). CRC Press Taylor & Francis Group.
4. Rahayu, W. P., & Nurwitri, C. C. (2012). *Mikrobiologi pangan* [Food microbiology]. IPB Press.

Basic Chemistry

■ *Module Name*	Basic Chemistry
■ *Module level, if applicable*	-
■ *Module identification code*	FST6096201
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Eny Dwiningsih (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 37.33 • Lecture (ECTS) = 2.13 • Practical (ECTS) = 0.00 • Total ECTS = 2.13
■ *Credit points*	2 Credit Hours (2-0) = 2.13 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Attitude 5%, Structured assignment 25%, Midterm exam 30%, Final exam 30%, Present 10%
■ *Intended learning outcomes*	
1. Students have knowledge of agribusiness management, agricultural socioeconomics and other related knowledge. 2. Students know the standard of agribusiness and food products. 3. 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:

1. Basuki, E., et al. (Baru) Basuki, E., et al. (2019). *Kimia pangan* [Food chemistry].
2. Chang, R. Chang, R. (2003). *Basic chemistry* (3rd ed.).
3. Deman, J. Deman, J. (1999). *Principles of food chemistry* (3rd ed.). Aspen.
4. Grosch, W., et al. Grosch, W., et al. (2009). *Food chemistry* (4th revised and extended ed.). Springer.
5. Hidayat, N., et al. (Baru) Hidayat, N., dkk. (2018). *Mikrobiologi industri pertanian* [Agricultural industrial microbiology]. UB Press.
6. Damodaran, S., & Parkin, K. L. (Eds.) Damodaran, S., & Parkin, K. L. (Eds.). (2017). *Fennema's food chemistry* (5th ed.). CRC Press.
7. Winarno, F. G. Winarno, F. G. (2004). *Kimia, pangan, dan gizi* [Chemical, food and nutrition].

Supporting:

Related journals

AGROCLIMATOLOGY

■ *Module Name*	Agroclimatology
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092031
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Armaeni Dwi Humaerah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Practical Total Hours = 0.00 • Total Hours of Structure and Self Study Per Semester = 37.33 • Lecture (ECTS) = 2.13 • Practical (ECTS) = 0.00 • Total ECTS = 2.13
■ *Credit points*	2 Credit Hours (2-0) 2,13 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Attitude 5%, Structured assignment 20%, Midterm exam 30%, Final exam 30%, Paper and Presentation 15%
■ *Intended learning outcomes*	
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	
■ *Module content*	
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* literature

1. Bindi, M., Brandani, G., Dibari, C., DeEssi, A., Ferrise, R., Moriondo, M., & Trombi, G. (Eds.). (2009). *Impact of climate change on agricultural and natural ecosystems*. Firenze University Press.
2. Handoko. (1994). *Klimatologi dasar* [Basic climatology]. Dunia Pustaka Jaya.
3. Lalic, B., Eitzinger, J., Marta, A. D., Orlandini, S., Sremac, A. F., & Pacher, B. (2015). *Agricultural meteorology and climatology*. Firenze University Press.
4. Rusmayadi. (2012). *Pertanian dalam bayang-bayang iklim ekstrim* [Agriculture in the shadow of extreme climate]. P3AI Universitas Lambung Mangkurat.
5. Rusmayadi. (2013). *Iklim mikro, teori, pengukuran dan analisisnya* [Microclimate, theory, measurement and analysis]. P3AI Universitas Lambung Mangkurat.
6. Sabaruddin, L. (2015). *Agroklimatologi* [Agroclimatology].

PRACTICE OF AGROCLIMATOLOGY

■ *Module Name*	Practice of Agroclimatology
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092131
■ *Semester(s) in which the module is taught*	4
■ *Person(s) responsible for the module*	Armaeni Dwi Humaerah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 topics related to the lectures.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 0.00 ● Hours of Midterm and Final Exam Per Semester = 4.00 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 23.33 ● Lecture (ECTS) = 0.00 ● Practical (ECTS) = 2.08 Total ECTS = 2.08
■ *Credit points*	1 Credit Hours (0-3) ≈ 2.08 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Fundamentals of Agronomy
■ *Media employed*	Practical Guidebook
■ *Forms of assessment*	Practical assignment 25%, Skills and Attitude 5%, Mid-term test 35%, Final test 35%.
■ *Intended learning outcomes*	
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* literature

1. Bindi, M., Brandani, G., Dibari, C., DeEssi, A., Ferrise, R., Moriondo, M., & Trombi, G. (Eds.). (2009). *Impact of climate change on agricultural and natural ecosystems*. Firenze University Press.
2. Handoko. (1994). *Klimatologi dasar* [Basic climatology]. Dunia Pustaka Jaya.
3. Lalic, B., Eitzinger, J., Marta, A. D., Orlandini, S., Sremac, A. F., & Pacher, B. (2015). *Agricultural meteorology and climatology*. Firenze University Press.
4. Rusmayadi. (2012). *Pertanian dalam bayang-bayang iklim ekstrim* [Agriculture in the shadow of extreme climate]. P3AI Universitas Lambung Mangkurat.
5. Rusmayadi. (2013). *Iklim mikro, teori, pengukuran dan analisisnya* [Microclimate, theory, measurement and analysis]. P3AI Universitas Lambung Mangkurat.
6. Sabaruddin, L. (2015). *Agroklimatologi* [Agroclimatology].

SEMESTER 5

Risk Management

■ *Module Name*	Risk Management
■ *Module level, if applicable*	Advanced
■ *Module identification code*	FEB6081306
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Akhmad Mahbubi, Ph.D. (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0) 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • 100% attendance in structured task groups
■ *Recommended prerequisites*	An Introduction to Agribusiness, The Basic of Management
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Structured assignment 30%, present 10 %
■ *Intended learning outcomes*	
Risk is very closely related to the occurrence of irregularities that cause losses. Risks are 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.	
■ *Module content*	
<u>Lecture (Class work)</u> 1. Risk on Islamic perspective 2. The concept of agribusiness risk	

3. The type of agribusiness risk regarding perspective
4. The concept, benefits, process and instruments of agribusiness risk management
5. The case study of agribusiness risk management (research review)
6. The case study of agribusiness risk management (field review)
7. Halal risk mitigation in the beef supply chain
8. Halal risk mitigation in the beef supply chain
9. Risk management based on farm
10. Risk management based on finance
11. Risk management based on market

■ *Recommended literatures*

Major references:

1. Fahmi, I. (2010). Manajemen risiko: Teori, kasus dan solusi [Risk management: Theory, cases and solutions]. Alfabeta.
2. Gunjal, K. (2016). Agricultural risk managament tools. PARM.
3. Hanggraeni, D. (2010). Pengelolaan risiko usaha [Business risk management]. Universitas Indonesia.
4. Maman, U., Mahbubi, A., & Jie, F. (2018). Halal risk mitigation in the Australian - Indonesian red meat supply chain. Journal of Islamic Marketing, 9(1), 60–79.
5. Pramana, T. (2011). Manajemen risiko bisnis [Business risk management]. CV. Sinar Ilmu Publishing.
6. Wastra, A. R., & Mahbubi, A. (2013). Risiko agribisnis [Agribusiness risk]. UIN Jakarta Press.

Agricultural Development

■ *Module Name*	Agricultural Development
■ *Module level, if applicable*	Intermediate
■ *Module identification code*	FST6092010
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Rahmi Purnomowati
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The courses are delivered through lectures enriched with relevant examples and followed by short discussion. 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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0) ~ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Introduction to Economics; Introduction on Agribusiness
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%

■ *Intended learning outcomes*

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 taking this course.

■ *Module content*

Lecture (Class work)

3. Agricultural Development Planning and its scope
4. System and Process of Agricultural Development Planning as part of the National Development Planning
5. Commodity-based Agricultural Development Planning

6. Agricultural Development in the Regions
7. Agricultural development planning across sectors
8. Modern and Ecological Dimensional Agricultural Planning Principles
9. Sustainable Agriculture development planning
10. preparation of the Agricultural Extension Program as part of Agricultural Development Planning
11. Implementation of Integrated Agricultural System Planning
12. Agricultural Financing and Partnership Patterns as an Important Part in Preparing Agricultural Development Planning
13. Government Policy in Agricultural Development
14. Integrated agricultural practices are carried out in various countries and can be implemented in the preparation of agricultural development plans in Indonesia

■ *Recommended literature*

1. Firdaus, M. (2018). *Manajemen agribisnis* [Agribusiness management]. Bumi Aksara.
2. Ellis, F. Ellis, F. (1992). *Agricultural policies in developing countries*. Cambridge University Press.
3. Jiaravanon, S. Jiaravanon, S. (2007). *Masa depan agribisnis Indonesia: Perspektif seorang praktisi* [The future of Indonesian agribusiness: A practitioner's perspective]. (Orasi Ilmiah).
4. Pearson, S., Gotsch, C., & Bahri, S. Pearson, S., Gotsch, C., & Bahri, S. (2004). *Application of the policy analysis matrix in Indonesian agriculture*. Yayasan Obor.
5. Waterston, A. Waterston, A. (1965). *Development planning lessons of experience*. The John Hopkins University Press.

Agro-Product Processing Technology/TPHP

■ *Module Name*	Agro-Product Processing Technology/TPHP
■ *Module level, if applicable*	Intermediate
■ *Module identification code*	FST6092032
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Agustina Senjayani
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total hours lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =0.00 h • Total hours of structure and self study per semester = 37.33 h • Lecture (ECTS) = 2.13 ECTS
■ *Credit points*	2 Credit Hours (2-0) ~ 2.13 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Introduction to Agro-Product Materials/PBA (Code: FST6092022)
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation, flipped classroom
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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 technologies applied to fulfill consumers' desires; standards must be met, and proper packaging must be applied.	
■ *Module content*	
Lecture (Class work) 1. Postharvest handling and preparation for processing 2. Raw material properties 3. Thermal Processing and Preservation Techniques 4. Freezing, Evaporation and Dehydration 5. Baking, Extrusion, Frying	

6. Irradiation and Ultrasound Technology
7. Safety in Food Processing
8. Process control and standardization
9. Processing Industry - Food crops base
10. Processing Industry - Estate crops base
11. Processing Industry - Dairy base
12. Processing Industry - Poultry Commodity base
13. Processing Industry - Fisheries Commodity base
15. Package and Packaging
3. 15. Standards and policies

■ *Recommended literatures*

1. Sobari, E. (2018). *Teknologi pengolahan pangan: Prinsip & trik* [Food processing technology: Principles & tricks] (Ed. 1). Andi.
2. Pace, B., & Cefola, M. (2021). Innovative preservation technology for fresh fruit and vegetables. *Foods*, *10*(4), 719. https://doi.org/10.3390/foods10040719
3. Brennan, J. G. Brennan, J. G. (2006). *Food processing handbook*. WILEY-VCH Verlag GmbH & Co. KGaA.
4. Fellows, P. Fellows, P. (2000). *Food processing technology, principles and practice* (2nd ed.). Woodhead Publishing Limited and CRC Press LLC.
5. Muchtadi, T. R. Muchtadi, T. R. (2008). *Teknologi proses pengolahan pangan* [Food processing technology]. Dept. Ilmu dan Teknologi Pangan. IPB.
6. Preedy, V. (Ed.). Preedy, V. (Ed.). (2015). *Processing and impact on active components in food*. Elsevier Inc.
7. Canovas, V. (2005). *Freezing of fruits and vegetables: An agribusiness alternative for rural and semi- rural areas*. Washington State University.
8. Winarno, F. G. Winarno, F. G. (2004). *Keamanan pangan* [Food safety]. MBRIO Press.
9. Zeuthen, P., & Sorensen, L. B. (Eds.). Zeuthen, P., & Sorensen, L. B. (Eds.). (2003). *Food preservation techniques*. Woodhead Publishing Limited and CRC Press LLC.

Practice of Agro-Product Processing Technology

■ *Module Name*	Practice of Agro-Product Processing Technology
■ *Module level, if applicable*	Basic
■ *Module identification code*	FST6092033
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Agustina Senjayani
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 results in the class.
■ *Workload*	• Total hours lecture (face to face) per semester = 0.00 h • Hours of midterm and final exam per semester = 4.00 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 23.33 h • Lecture (ECTS) = 0.00 ECTS • Practical (ECTS) = 2.08 ECTS
■ *Credit points*	1 Credit Hours (0 – 1) ~ 2,08 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • 100% attendance in experimental laboratory and structured task
■ *Recommended prerequisites*	Introduction to Agro-Product Materials/PBA (Code: FST6092022) Agro-Product Processing Technology/TPHP (Code: FST6092033)
■ *Media employed*	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
■ *Forms of assessment*	Midterm exam 25%, Final exam 25%, Present 10%, Structured assignment 40%
■ *Intended learning outcomes*	
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 both 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.	

■ *Module Content*

Experimental Learning (Lab work)

1. Laboratory Protocol and report
2. Preservation techniques using sugar, salt, and fermentation processes
3. Thermal Processing
4. Evaporation and Dehydration
5. Refrigeration
6. Baking
7. Microwave for food sterilization
8. Field Study on food processing sanitation, hygiene and food additives
9. Food Packaging Observation
10. Food Packaging and Labels Design

■ *Recommended Literature*

1. Brennan, J. G. (2006). *Food processing handbook.* Weinheim: WILEY-VCH Verlag GmbH & Co. KGaA.
2. Preedy, V. (Ed.). (2015). *Processing and impact on active components in food.* London: Elsevier Inc.
3. Fellows, P. (2000). *Food processing technology: Principles and practice* (2nd ed.). Cambridge, England: Woodhead Publishing Limited and CRC Press LLC.
4. Zeuthen, P., & Sørensen, L. B. (Eds.). (2003). *Food preservation techniques.* Cambridge, England: Woodhead Publishing Limited and CRC Press LLC.
5. Winarno, F. G. (2004). *Keamanan pangan.* Jakarta: MBRIO Press.
6. Muhtadi, T. R. (2008). *Teknologi proses pengolahan pangan.* Bogor: Departemen Ilmu dan Teknologi Pangan, Institut Pertanian Bogor (IPB).
7. Senjayani, A. (2023). *Pedoman praktikum teknologi pengolahan hasil pertanian (TPHP) semester 5 Agribisnis FST UIN Jakarta.* Jakarta: Universitas Islam Negeri Syarif Hidayatullah Jakarta.

INNOVATION ENGINEERING

■ *Module Name*	Innovation Engineering
■ *Module level, if applicable*	
■ *Module identification code*	FST6098261
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Nunuk Adiarni (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total hours of lecture (face to face) per semester = 23.33 h ● Hours of midterm and final exam per semester = 3.33 h ● Total hours practical =0.00 h ● Total hours of structure and self-study per semester = 37.33 h ● Lecture (ECTS) =2.13 ECTS
■ *Credit points*	2 Credit Hours (2-0) ≈ 2.13 ECTS
■ *Admission and examination requirements*	● Enrolled in this course ● Minimum 80% attendance in lecture ● 100% attendance in structured task groups
■ *Recommended prerequisites*	All of study course in previous semester
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Present 5%, Attitude 5%, Assignment structured 40%, Mid-term test 25%, Final test 25%.
■ *Intended learning outcomes*	
1. Able to apply religious, national and ethical values, especially in food. 2. Knowing agriculture and food business standards	
■ *Module Content*	
<u>Lecture (Class work)</u> 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 Literature*

Primary:

1. Kasali, R. (2017). *Disruption.* Jakarta: Gramedia.
2. Febriansyah, A. (Ed.). (2010). *Innovation.* Jakarta: Prasetya Mulya.
3. Osterwalder, A., & Pigneur, Y. (2012). *Business model canvas.* Jakarta: Elex Media Komputindo.
4. Amit, R., & Zott, C. (2010). *Business model innovation.* Navarra, Spain: IESE Business School.
5. Chesbrough, H. (2010). *Business model innovation.* Elsevier.
6. Ministry of Research, Technology, and Higher Education of the Republic of Indonesia. (2019). *Regulation of the Minister of Research, Technology and Higher Education of the Republic of Indonesia Number 29 of 2019 concerning measurement and determination of the level of innovation readiness.*
7. Republic of Indonesia. (2019). *Law Number 11 of 2019 concerning the National System of Science and Technology.*
8. Organisation for Economic Co-operation and Development (OECD). (2005). *Oslo manual: Guidelines for collecting and interpreting innovation data* (3rd ed.). Paris: OECD Publishing.

Supplementary:

Materials from public sources on innovation figures

MARKETING MANAGEMENT

■ *Module Name*	Marketing Management
■ *Module level, if applicable*	
■ *Module identification code*	FEB6081104
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Zulmaneri (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total hours of lecture (face to face) per semester = 23.33 h ● Hours of midterm and final exam per semester = 3.33 h ● Total hours practical =35.00 h ● Total hours of structure and self-study per semester = 46.67 h ● Lecture (ECTS) = 73.33: 30 = 2.44 ECTS ● Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0)~ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Fundamental of management, agribusiness management
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Present 5%, Attitude 5%, Assignment structured 40%, Mid-term test 25%, Final test 25%.
■ *Intended learning outcomes*	
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 and 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 Literature*

1. Barnard, F., Akridge, J., Dooley, F., & Foltz, J. (2020). *Agribusiness management* (6th ed.). New York, NY: Routledge.
2. Kotler, P., Keller, K. L., & Chernev, A. (2021). *Marketing management* (16th ed.). Upper Saddle River, NJ: Pearson Education.
3. Rangkuti, F. (2007). *Marketing research.* Jakarta: Gramedia Pustaka Utama.
4. Sumarwan, U. (2015). *Consumer behavior.* Bogor: IPB Press.
5. Sumarwan, U. (Ed.). (2015). *Pemasaran strategik: Perspektif perilaku konsumen dan marketing plan.* Bogor: IPB Press.

Scientific Writing Technique

■ *Module Name*	Scientific Writing Technique
■ *Module level, if applicable*	Beginner (Foundational Courses)
■ *Module identification code*	FST6092037
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Titik Inayah
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours lecture (face to face) per semester = 0.00 h • Hours of midterm and final exam per semester = 4.00 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 23.33 h • Lecture (ECTS) = 0.00 ECTS • Practical (ECTS) = 2.03 ECTS
■ *Credit points*	1 Credit Hours (0-2) 2,08 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	All of the study courses in semesters 1-4
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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 discuss 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.	
■ *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.* Jakarta: Pusbangprodik BPSDMPK PMP, Kementerian Pendidikan dan Kebudayaan.
2. Rullyana, G. (2020, September 1). *Mendeley reference management tutorial.* Retrieved from https://www.academia.edu/37756376/Tutorial_Manajemen_Referensi_Mendeley
3. Sudjana, N. (2005). *The demands of writing scientific papers, theses, and dissertations.* Bandung: Sinar Baru Algesindo.

RESEARCH METHODOLOGY

■ *Module Name*	Research Methodology
■ *Module level, if applicable*	-
■ *Module identification code*	UIN6000209
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Lilis Imamah Ichdayati (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	• Total hours of lecture (face to face) per semester = 23.33 h • Hours of midterm and final exam per semester = 3.33 h • Total hours practical =35.00 h • Total hours of structure and self-study per semester = 46.67 h • Lecture (ECTS) = 73.33: 30 = 2.44 ECTS • Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (3-0) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Present 10%, Mid-Term Exam 30%, Final Exam 30%, Task/Response 30%
■ *Intended learning outcomes*	
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
10. Develop forms of measurement of research variables and indicators
11. Sorting a questionnaire: Formulates a query list as a data collection instrument
12. Test Instrument Validity and Reliability
13. Presentation of data: Categorization and tabulation of research data
14. Data analysis: Statistical and nonstatistical analysis models
15. Data Analysis based on the nature of qualitative and quantitative research

■ *Recommended Literature*

1. Acharyya, R., & Bhattacharya, N. (2020). *Research methodology for social sciences.* New Delhi, India: Routledge.
2. Bungin, B. (2011). *Qualitative research: Communication, economics, public policy and other social sciences.* Jakarta: Kencana, Prenada Media Group.
3. Muhammad. (2008). *Islamic economic research methodology: Quantitative approach.* Jakarta: Rajawali Press.
4. Nazir, M. (2003). *Research methods.* Jakarta: Ghalia Indonesia.
5. Stockemer, D., & Bordeleau, J.-N. (2023). *Quantitative methods for the social sciences: A practical introduction with examples in R* (2nd ed.). Cham, Switzerland: Springer.
6. Sugiyono. (2002). *Business research methods.* Bandung: Alfabeta.
7. Sugiyono. (2005). *Understanding qualitative research.* Bandung: Alfabeta.
8. Sugiyono. (2005). *Statistics for research.* Bandung: Alfabeta.
9. Supranto, J. (2011). *Customer satisfaction level measurement.* Jakarta: Rineka Cipta.

STRATEGIC MANAGEMENT

■ *Module Name*	STRATEGIC MANAGEMENT
■ *Module level, if applicable*	
■ *Module identification code*	FEB6081106
■ *Semester(s) in which the module is taught*	5
■ *Person(s) responsible for the module*	Mudatsir Najamuddin
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	■ Total hours of lecture (face to face) per semester = 23.33 h ■ Hours of midterm and final exam per semester = 3.33 h ■ Total hours practical =35.00 h ■ Total hours of structure and self-study per semester = 46.67 h ■ Lecture (ECTS) = 73.33: 30 = 2.44 ECTS ■ Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Present 5%, Attitude 5%, Assignment structured 40%, Mid-term test 25%, Final test 25%.
■ *Intended learning outcomes*	
1. To develop students' 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
2. Management Strategy
3. Formulation Stages Strategy, Vision and Mission
4. Environment Analysis (External and Internal)- EFE, IFE
5. Analysis and Alternative Formulation Agribusiness Corporate Strategy, Tools Analysis: Matrix SWOT, IE Matrix, QSP Matrix
6. Formulation Business Unit Strategy Functional, Tools analysis: Competitive Matrix Profile
7. Analysis of Strategic Issues (Management, Marketing, Finance, R&D and MIS)
8. Balanced Score Card
9. Strategy Control
10. Leadership, social responsibility and Business Morals

■ *Recommended Literature*

1. Thompson, A. A., Jr., Peteraf, M. A., Gamble, J. E., & Strickland, A. J., III. (2018). *Crafting and executing strategy: The quest for competitive advantage—Concepts and cases* (20th ed.). New York, NY: McGraw-Hill Education.
2. David, F. R. (2009). *Concepts of strategic management.* Upper Saddle River, NJ: Pearson Education.
3. Wheelen, T. L., & Hunger, J. D. (1999). *Strategic management and business policy.* Upper Saddle River, NJ: Prentice Hall.
4. Umar, H. (2002). *Strategic management in action.* Jakarta: PT Gramedia Pustaka Utama.

SEMESTER 6

Entrepreneurship

■ *Module Name*	Entrepreneurship
■ *Module level, if applicable*	
■ *Module identification code*	FEB6081202
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Mudatsir Najamuddin (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness, conceptual and applicative
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 46.67 ● Lecture (ECTS) = 2.44 ● Practical (ECTS) = 2.83 Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Technopreneurship, Agribusiness Management
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Formative 40%, Middle Test 30%, Final test 40%.
■ *Intended learning outcomes*	
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 in agribusiness) and have good technical and managerial skills to manage and develop their business	
■ *Module Content*	
<u>Lecture (Class work)</u>	

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

■ *Recommended Literature*

1. Birley, S., & Muzyka, D. F. (2006). *Mastering enterprise* (Nadjamuddin & Wibowo, Trans.). Jakarta: Indeks.
2. Blank, S., & Dorf, B. (2015). *The startup owner's manual* (Indonesian ed.). Jakarta: PT Elex Media Komputindo.
3. Bygrave, W. D., & Zacharakis, A. (2014). *Entrepreneurship* (3rd ed.). Hoboken, NJ: John Wiley & Sons.
4. Frederick, H., O'Connor, A., & Kuratko, D. F. (2016). *Entrepreneurship.* South Melbourne, Australia: Cengage Learning.
5. Leigh, A., & Meynard, M. (2006). *Leading your team: Strategi melibatkan dan menginspirasi tim* (Trans.). Jakarta: PT Bhuana Ilmu Populer.
6. Ma'ruf, A. (2013). *Sharia-based entrepreneurship.* Yogyakarta: Aswaja Pressindo.
7. Mubarok, M. M. (2013). *Practical management of entrepreneurship.* Surabaya: Graha Pustaka Media Utama.
8. Mursidin, & Arifin. (2020). *Entrepreneurship education.* Bandung: Bumi Aksara.
9. Osterwalder, A., & Pigneur, Y. (2012). *Business model generation* (N. R. Sihandini, Trans.). Jakarta: Elex Media Komputindo.
10. Pasaribu, A. M. (2012). *Agribusiness-based entrepreneurship.* Yogyakarta: Andi.
11. Ramdhan, H. E. (2016). *Startup lessons: Peel thoroughly startup business.* Jakarta: Plus.
12. Ries, E. (2015). *The lean startup* (Indonesian ed.). Yogyakarta: Pustaka Bentang.
13. Setiyadi, A. (2020). *Entrepreneurship: Business planning in the digital age.* Jakarta: Media Discourse Partner Publishers.
14. Siswanto, A. (2016). *The power of Islamic entrepreneurship (Energi kewirausahaan islami).* Jakarta: Amzah.
15. Timmons, J. A., & Spinelli, S. (2008). *New venture creation: Entrepreneurship for the 21st century* (Indonesian ed.). Yogyakarta: Penerbit Andi.
16. Wulan, A. (2020). *UMKM 4.0: MSME strategy enters the digital era.* Jakarta: PT Elex Media Komputindo.

AGRIBUSINESS INFORMATION SYSTEM

■ *Module Name*	Agribusiness Information System
■ *Module level, if applicable*	
■ *Module identification code*	FST6092018
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Acep Muhib (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	The course topics are delivered through lectures which are enriched with relevant examples and followed by short discussion.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 46.67 ● Lecture (ECTS) = 2.44 ● Practical (ECTS) = 2.83 ● Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	Agribusiness Management
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Paper and Presentation 10%, Attitude 5% Assignment Structured 15%, Mid-term test 30%, Final test 40%.
■ *Intended learning outcomes*	
1. Students have knowledge of agribusiness management, agricultural socio- economics, and the other related knowledge (CPL2 / P1) 2. Students have the ability to identify and analyze problems, potential 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)	
■ *Module Content*	
<u>Lecture (Class work)</u> 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 Literature*

1. Laudon, K. C., & Laudon, J. P. (2022). Management information systems: Managing the digital firm (17th ed.). Pearson Education.
2. O'Brien, J. A., & Marakas, G. M. (2011). Management information systems (10th ed.). McGraw-Hill/Irwin.
3. Turban, E., Pollard, C., & Wood, G. (2018). Information technology for management: On-demand strategies for performance, growth, and sustainability (11th ed.). Wiley.
4. Stair, R., & Reynolds, G. (2020). Principles of information systems (13th ed.). Cengage Learning.

Arabic

■ *Module Name*	Arabic
■ *Module level, if applicable*	
■ *Module identification code*	UIN6021204
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Achmad Fudhaili (Coordinator)
■ *Language*	Indonesian, Arabic
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 32.67 ● Lecture (ECTS) = 1.98 ● Practical (ECTS) = 2.37 Total ECTS = 4.34
■ *Credit points*	3 Credit Hours (3-0) = 4.34 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Formative 50%, Mid-term test 20%, Final test 30%.
■ *Intended learning outcomes*	
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	

5. Have knowledge of Nahwu Basith, speaking, reading, and writing ICT-based
6. Have Knowledge, Speak, Read, and Write Islamic Text I Based on ICT
7. Have Islamic Knowledge, Speaking, Reading, and Writing II-Based ICT
8. Have Knowledge, Speak, Read, and Write Kesain Text-Teknlogian I Based on ICT
9. Have Knowledge, Speak, Read, and Write Kesain Text-Teknlogian II Based on ICT
10. Have Knowledge, Speak, Read, and Write Kesain Text-Teknlogian Basic I Based onICT
11. Have Knowledge, Speak, Read, and Write Kesain Text-Teknlogian Basic 2 Based onICT
12. Have Knowledge, Speak, Read, and Write Kesain Text-Teknlogian Basic 3 Based onICT
13. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyah baina Yadaika 1 Based on ICT
14. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyah baina Yadaika 2 Based on ICT
15. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyah baina Yadaika 3 Based on ICT
16. Have Knowledge, Speak, Read, and Write the Text of Kitab al-Arabiyah baina Yadaika 4 Based on ICT

■ *Recommended Literature*

Main

لماجستير، تعلم العربية: الكتاب الدراسي لطلاب قسملاتربية الإسلامية: إدارةلاتربية ، كلية علوملاتربية ولاتعليم، جامعة .1شريف 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 - ردوس 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 Toafl, Oleh: Dr. Muhbib 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.

Supplementary

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).Contemporary Arabic texts, including Arabic textbooks, Arabic newspapers, Arabic journals dll.)

INTERNATIONAL TRADE

■ *Module Name*	International Trade
■ *Module level, if applicable*	-
■ *Module identification code*	FST6092020
■ *Semester(s) in which the module is* ■ *taught*	6
■ *Person(s)* ■ *responsible for the module*	Edmon Daris (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 2.83 • Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation, E-Views, SPSS, Laptop, Whiteboard
■ *Forms of assessment*	Midterm exam 30%, Final exam 30%, Present 10%, Structured assignment 30%
■ *Intended learning outcomes*	
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 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 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 Literature*

Main:

1. Ball, D. A., McCulloch, W. H., Frantz, P. L., Geringer, J. M., & Minor, M. S. (2004). *International business: The challenge of global competition* (9th ed.). New York, NY: McGraw-Hill.
2. Krugman, P. R., & Obstfeld, M. (2005). *International economics: Theory and policy* (7th ed.). New York, NY: Addison-Wesley.
3. Hill, C. W. L., & Hult, G. T. M. (2021). *International business: Competing in the global marketplace* (13th ed.). New York, NY: McGraw-Hill Education.

Supplementary:

1. Burtless, G., Lawrence, R., Litan, R., & Shapiro, R. (1996). Globaphobia. Washington, DC: The Brookings Institution.
2. Cavusgil, S. T., Knight, G., & Riesenberger, J. R. (2008). International business: Strategy, management, and the new realities. Upper Saddle River, NJ: Pearson Prentice Hall.
3. Corden, W. M. (1997). Trade policy and economic welfare (2nd ed.). Oxford, UK: Clarendon Press.
4. Kelly, P. (2009). International business & management. Retrieved from http://www.cengage.co.uk/kelly/students/studentguide.pdf
5. Krueger, A. O. (Ed.). (1996). The political economy of trade protection. Chicago, IL: University of Chicago Press.
6. Hill, C. W. L., & Hult, G. T. M. (2022). Global business today (12th ed.). New York, NY: McGraw-Hill Education.

HUMAN RESOURCE MANAGEMENT

■ *Module Name*	Human Resource Management
■ *Module level, if applicable*	Basic
■ *Module identification code*	FEB6081103
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Siti Rochaeni (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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 assignments. Each group was assigned to work on a specific topic relevant to the lecture and presented in the class.
■ *Workload*	• Total Hours Lecture (Face to Face) Per Semester = 23.33 • Hours of Midterm and Final Exam Per Semester = 3.33 • Total Hours Practical = 35.00 • Total Hours of Structure and Self Study Per Semester = 46.67 • Lecture (ECTS) = 2.44 • Practical (ECTS) = 2.83 • Total ECTS = 5.28
■ *Credit points*	3 Credit Hours (3-0) = 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	The course of “Fundamentals of Management”
■ *Media employed*	Classical teaching tools with projector, LCD and TV media with Power Point presentation
■ *Forms of assessment*	Paper and Presentation 10%, Attitude 5%, Structured assignment 15%, Midterm exam 35%, Final exam 35%
■ *Intended learning outcomes*	
1. Students able to understand the concept of the basics 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*	
<u>Lecture (Class work)</u> 1. Strategic Human Resource Management:	

2. Business ethics and corporate social responsibility:
3. Work Force Diversity and Equal Work Opportunities
4. Job analysis
5. Human resource planning
6. Recruitment
7. Review topic 1-6
8. Selection and job interview
9. Selection and job interview (part 2)
10. Orientation and placement:
11. Training and development:
12. Management development
13. Review topic 8-12
14. Group presentation

■ *Recommended Literature*

Main:

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:

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

URBAN FARMING

■ *Module Name*	Urban Farming
■ *Module level,if applicable*	
■ *Module identification code*	FST6092034
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Iwan Aminudin (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Practical Total Hours = 0.00 ● Total Hours of Structure and Self Study Per Semester = 37.33 ● Lecture (ECTS) = 2.13 ● Practical (ECTS) = 0.00 Total ECTS = 2.13
■ *Credit points*	2 Credit Hours (2-0) ≈ 2.13 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.
■ *Intended learning outcomes*	
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).

■ *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 Literature*

1. Butler, L., & Moronek, D. M. (2002). *Urban and agricultural communities: Opportunities for common ground.* Ames, IA: Council for Agricultural Science and Technology.
2. Mougeot, L. J. A. (2000). *Urban agriculture: Definition, presence, potentials and risks, and policy challenges.* Ottawa, Canada: International Development Research Centre (IDRC).
3. Dubbeling, M., de Zeeuw, H., & van Veenhuizen, R. (2010). *Cities, poverty and food: Multi-stakeholder policy and planning in urban agriculture.* Rugby, UK: Practical Action Publishing.
4. Sanye-Mengual, E., & Specht, K. (2021). *Urban agriculture and sustainable city development.* Cham, Switzerland: Springer Nature.

PRACTICE OF URBAN FARMING

■ *Module Name*	Practice of Urban Farming
■ *Module level,if applicable*	
■ *Module identification code*	FST6092134
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Iwan Aminudin (Coordinator)
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 0.00 ● Hours of Midterm and Final Exam Per Semester = 4.00 ● Total Hours Practical = 35.00 ● Total Hours of Structure and Self Study Per Semester = 23.33 ● Lecture (ECTS) = 0.00 ● Practical (ECTS) = 2.08 ● Total ECTS = 2.08
■ *Credit points*	1 Credit Hours (0-3) ≈ 2.08 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Practical guidebook, hydroponic equipments, pots
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.
■ *Intended learning outcomes*	
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*	
<u>Lecture (Class work)</u> 1. Understanding urban farming	

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

Urban farming business

■ *Recommended Literature*

1. Butler, L., & Moronek, D. M. (2002). *Urban and agricultural communities: Opportunities for common ground.* Ames, IA: Council for Agricultural Science and Technology.
2. Mougeot, L. J. A. (2000). *Urban agriculture: Definition, presence, potentials and risks, and policy challenges.* Ottawa, Canada: International Development Research Centre (IDRC).
3. Dubbeling, M., de Zeeuw, H., & van Veenhuizen, R. (2010). *Cities, poverty and food: Multi-stakeholder policy and planning in urban agriculture.* Rugby, UK: Practical Action Publishing.
4. Sanye-Mengual, E., & Specht, K. (2021). *Urban agriculture and sustainable city development.* Cham, Switzerland: Springer Nature.

SEMESTER 7

FIELD WORK PRACTICE (KKL)-INTERNSHIP IN AGRIBUSINESS FIELD

■ *Module Name*	**Field Work Practice (PKL) – Internship in Agribusiness Field**
■ *Module level, if applicable*	Undergraduate (Bachelor) – Agribusiness Program
■ *Module identification code*	UIN6000217
■ *Semester(s) in which the module is taught*	7
■ *Person(s) responsible for the module*	Head of the Agribusiness Study Program Internship Supervising Lecturer
■ *Language*	Indonesian
■ *Relation to curriculum*	This module is part of the core curriculum for Agribusiness students. The internship provides real-world experience by applying the concepts and theories learned in class to practical situations in agribusiness industries or related sectors.
■ *Teaching methods, contact hours*	**Teaching Methods:** Internship at agribusiness companies, cooperatives, governmental institutions related to agriculture, or NGOs focusing on agribusiness. **Contact Hours:** 150 hours over 4 weeks (1 month) in the internship location, along with regular consultation sessions with the supervising lecturer, a minimum of 4 times during the program.
■ *Workload*	● Total Hours of Structure and Self Study Per Semester: 154.00 ● Lecture (ECTS): 5.13 ● Practical (ECTS): 0.00 ● Total ECTS: 5.13 ECTS
■ *Credit points*	5.13 ECTS
■ *Admission and examination requirements*	• Completion of at least 110 credits in the Agribusiness program. • Participation in the internship orientation provided by the Study Program. • Obtaining an internship recommendation letter from the study program.
■ *Recommended prerequisites*	Completion of core courses with 110 credits
■ *Media employed*	Internship orientation module, final report, supervisor assessment forms.
■ *Forms of assessment*	P**erformance in the Field (50%)**: Evaluation by the supervisor at the internship location, based on performance, discipline, initiative, and contribution. **Final Report (30%)**: Submission of a final report, including an analysis of the business processes, challenges, and proposed recommendations. **Presentation (20%)**: Oral presentation of the final report to the supervising lecturer and the supervisor.
■ *Intended learning outcomes*	
1. **Apply the concepts and theories of agribusiness** learned in the classroom to real-life situations in the field.	

2. **Analyze the business dynamics in agribusiness** at the workplace, focusing on managerial, technical, social, and economic aspects.
3. **Identify challenges and opportunities** faced by the agribusiness industry in Indonesia and offer innovative solutions for improving processes or performance.
4. **Develop professional soft skills** such as leadership, communication, time management, and teamwork in an agribusiness work environment.
5. **Prepare data-driven reports and recommendations** relevant to agribusiness development.
6. **Deliver professional presentations** of their work and analysis in a structured and effective manner

COMMUNITY SERVICE PROGRAM

■ *Module Name*	**Community Service Program**
■ *Module level, if applicable*	Undergraduate (Bachelor) – Agribusiness Program
■ *Module identification code*	UIN6000206
■ *Semester(s) in which the module is taught*	7
■ *Person(s) responsible for the module*	Center for Community Service UIN Syarif Hidayatullah Jakarta
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory course for undergraduate program in Agribisnis
■ *Teaching methods, contact hours*	The students have 1 month of preparation, 1 month of stay and work in the village, a month of making a report, including final test
■ *Workload*	● Total Hours of Structure and Self Study Per Semester: 154.00 ● Lecture (ECTS): 5.13 ● Practical (ECTS): 0.00 ● Total ECTS: 5.13 ECTS
■ *Credit points*	5.13 ECTS
■ *Admission and examination requirements*	• Completion of at least 110 credits in the Agribusiness program. • Participation in the internship orientation provided by the Study Program. • Obtaining an internship recommendation letter from the study program.
■ *Recommended prerequisites*	Completion of core courses with 110 credits
■ *Media employed*	Laptop/Computer, final report, supervisor assessment forms.
■ *Forms of assessment*	The final score will be decided by considering some criteria involving the independence and teamwork ability, attitude and ethics, and substance of the Center for Community Service. The components will be taken from the lecturers (during preparation until test at the end of the activities) and the chair of the village where the students work for the Center for Community Service. A:80-100; B: 70-79,9; C: 60-69,9; D: 50-59,9; E: <50
■ *Intended learning outcomes*	
After completing this course, the students should have strong insight in local wisdom and high sensitivity to the problems in the society	

SEMESTER 8

FINAL PROJECT (THESIS)

■ *Module Name*	**Final Project (Thesis)**
■ *Module level, if applicable*	Undergraduate (Bachelor) – Agribusiness Program
■ *Module identification code*	UIN6000312
■ *Semester(s) in which the module is taught*	8
■ *Person(s) responsible for the module*	Head of the Agribusiness Study Program Thesis supervisor
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	Students are supervised by one supervisor or more
■ *Workload*	● Total Hours of Structure and Self Study Per Semester: 330.00 ● Lecture (ECTS): 11.00 ● Practical (ECTS): 0.00 ● Total ECTS: 11.00 ECTS
■ *Credit points*	11.00 ECTS
■ *Admission and examination requirements*	• To be able to take the final exam students must complete courses (minimum 138 credits) without having a D grade
■ *Recommended prerequisites*	Completion of core courses with 138 credits
■ *Media employed*	Research proposal, laptop/computer
■ *Forms of assessment*	Final project examinations are conducted after the student completes his final project manuscript. The elements of evaluation consist of feasibility assessment topics, academic writing, presentation, and oral test about the content of the final project. final exam using the agreed system 80 ≤ A ≤100; 70 ≤ B < 80; 60 ≤ C< 70; 60 ≤ D < 50.
■ *Intended learning outcomes*	
1. Apply the knowledge, experience, and skills learned in Agribusiness department to the chosen topic and case 2. Write scientific papers in a comprehensive manner 3. Students have professional ethics and soft skill: presentation, communication, discussion, and reason	

SEMINAR

■ *Module Name*	**Seminar**
■ *Module level, if applicable*	Undergraduate (Bachelor) – Agribusiness Program
■ *Module identification code*	UIN6000313
■ *Semester(s) in which the module is taught*	8
■ *Person(s) responsible for the module*	Head of the Agribusiness Study Program Thesis supervisor
■ *Language*	Indonesian
■ *Relation to curriculum*	Compulsory for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	Final project presentation and discussion Students are supervised by one supervisor or more
■ *Workload*	● Total Hours of Structure and Self Study Per Semester: 55.00 ● Lecture (ECTS): 1.83 ● Practical (ECTS): 0.00 ● Total ECTS: 1.83 ECTS
■ *Credit points*	1.83 ECTS
■ *Admission and examination requirements*	• To be able to take the final exam students must complete courses (minimum 138 credits) without having a D grade
■ *Recommended prerequisites*	Completion of core courses with 138 credits
■ *Media employed*	Research proposal, laptop/computer
■ *Forms of assessment*	Assessment includes: the ability to deliver seminar papers, the ability to answer and the accuracy of answers, language and attitude, paper format, timeliness
■ *Intended learning outcomes*	
Students are able to arrange and submit the results of their final assignment studies in scientific forums	

ELECTIVE COURSE

HALAL FOOD MANAGEMENT

■ *Module Name*	Halal Food Management
■ *Module level,if applicable*	-
■ *Module identification code*	FST6092038
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Akhmad Mahbubi
■ *Language*	Indonesian
■ *Relation to curriculum*	Elective Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	■ Total hours of lecture (face to face) per semester = 23.33 h ■ Hours of midterm and final exam per semester = 3.33 h ■ Total hours practical =35.00 h ■ Total hours of structure and self-study per semester = 46.67 h ■ Lecture (ECTS) = 73.33: 30 = 2.44 ECTS ■ Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.
■ *Intended learning outcomes*	
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).

■ *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 Literature*

1. Butler, L., & Moronek, D. M. (2002). *Urban and agricultural communities: Opportunities for common ground.* Ames, IA: Council for Agricultural Science and Technology.
2. Mougeot, L. J. A. (2000). *Urban agriculture: Definition, presence, potentials and risks, and policy challenges.* Ottawa, Canada: International Development Research Centre (IDRC).
3. Dubbeling, M., de Zeeuw, H., & van Veenhuizen, R. (2010). *Cities, poverty and food: Multi-stakeholder policy and planning in urban agriculture.* Rugby, UK: Practical Action Publishing.
4. Sanye-Mengual, E., & Specht, K. (2021). *Urban agriculture and sustainable city development.* Cham, Switzerland: Springer Nature.

HALAL FOOD ECONOMICS

■ *Module Name*	Halal Food Economics
■ *Module level,if applicable*	-
■ *Module identification code*	FST6092040
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Puspi Eko Wiranthi
■ *Language*	Indonesian
■ *Relation to curriculum*	Elective Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	■ Total hours of lecture (face to face) per semester = 23.33 h ■ Hours of midterm and final exam per semester = 3.33 h ■ Total hours practical =35.00 h ■ Total hours of structure and self-study per semester = 46.67 h ■ Lecture (ECTS) = 73.33: 30 = 2.44 ECTS ■ Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.

■ *Intended learning outcomes*

Upon completion of this course, students will be able to:

1. Explain agricultural and food economics concepts within the halal industry context, including supply–demand interactions, market equilibrium, and price formation in halal agrifood markets.
2. Analyze consumer behavior and market preferences for halal agricultural and food products using agro-marketing and behavioral economics perspectives.
3. Evaluate market structures and competition in the halal agribusiness industry (farming, food processing, distribution, retail, and export sectors).
4. Assess the economic implications of halal certification, including compliance costs, price premiums, transaction costs, and business competitiveness.
5. Analyze halal agrifood supply chains, focusing on value-added creation, cost structures, and efficiency within upstream–midstream–downstream agribusiness activities.
6. Explain government policies related to halal food production, farmer empowerment, export promotion, and halal assurance mechanisms.

■ *Module Content*

1. Introduction to Halal Food Economics in Agribusiness
2. Halal Agrifood Market Dynamics: Supply, Demand & Elasticities
3. Halal Consumer Behavior, Segmentation, and Willingness-to-Pay
4. Market Structure Analysis in Halal Agribusiness (farm level, MSMEs, processors)
6. Economics of Halal Certification (Cost–Benefit & Competitiveness)
7. Production Economics of Halal Agriculture (crops, livestock, fisheries)
8. Halal Value Chain and Value-Added Analysis
9. Halal Agrifood Trade (Export Potential, Trade Standards, Tariff & Non-Tariff Barriers)
10. Price Transmission in Halal Commodity Chains
11. Role of Institutions: BPJPH, MUI, OIC/SMIIC, Ministry of Agriculture, Trade, and Industry
12. Islamic Economic Principles in Halal Agribusiness
13. Digitalization and Innovation in Halal Food Markets (e-commerce, blockchain, traceability)
14. Case Studies: Halal SMEs, halal slaughterhouses, halal-certified farms, global franchises
15. Group Project: Halal Market or Policy Economic Analysis
16. Course Review and Discussion
17. Final Examination

■ *Recommended Literature*

Main Textbooks

1. Tieman, M. (2019). Halal Business Management: A Guide to Achieving Halal Excellence. Springer.
2. Bonne, K., & Verbeke, W. (2020). Halal Food Production and Processing. Springer.
3. Omar, E. N. (2020). Halal Economy: Theory and Practices.
4. Talib, M. S. A., Ali, M. H., & Jamaludin, K. R. (2021). Halal Supply Chain & Logistics. CRC Press.

Supporting Books & Journals

1. Riaz, M. N., & Chaudry, M. M. (2020). Halal Food Production (2nd ed.). CRC Press.
2. Kotler, P., Kartajaya, H., & Hati, S. (2021). Marketing 5.0 for Halal Markets. Wiley.
3. Wilson, J. A. J., & Liu, J. (2021). Handbook of Halal Markets and Islamic Consumer Behavior. Routledge.
4. FAO, ITC, OIC (2022). Global Halal Food Market & Trade Report.
5. Journal of Islamic Marketing (Emerald Publishing).
6. Journal of Agribusiness, Journal of Agricultural Economics, and JHPR (Halal Product and Research).

Regulatory & Digital Sources

1. BPJPH. Halal Certification and Assurance Guidelines.
2. LPPOM MUI. HAS 23000 and Halal Assurance System Documentation.
3. Ministry of Religious Affairs. Halal Product Assurance Law (UU No. 33/2014).
4. OIC/SMIIC Standards on Halal Food.
5. WTO, ITC, FAOSTAT – Halal commodity trade & market datasets.

HALAL AGROTOURISM

■ *Module Name*	Halal Food Agritourism
■ *Module level,if applicable*	-
■ *Module identification code*	FST6092044
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Iwan Aminudin
■ *Language*	Indonesian
■ *Relation to curriculum*	Elective Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	■ Total hours of lecture (face to face) per semester = 23.33 h ■ Hours of midterm and final exam per semester = 3.33 h ■ Total hours practical =35.00 h ■ Total hours of structure and self-study per semester = 46.67 h ■ Lecture (ECTS) = 73.33: 30 = 2.44 ECTS ■ Practical (ECTS) = 2.83 ECTS
■ *Credit points*	3 Credit Hours (2-1) ≈ 5.28 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.
■ *Intended learning outcomes*	
Upon completion of this course, students will be able to: 1. Explain the concept and principles of halal agrotourism, integrating agriculture, rural landscapes, and halal tourism services. 2. Analyze agritourism potential within farming systems, food production, and rural community settings from a halal perspective. 3. Identify halal requirements and compliance points in agrotourism facilities, services, food offerings, and visitor experiences. 4. Design halal-based agritourism products including farm attractions, educational tours, agro-culinary experiences, and cultural activities. 5. Evaluate agribusiness value chains connected to agrotourism, including production, processing, merchandising, and service delivery.	
■ *Module Content*	
1. Introduction to Agrotourism and Halal Tourism Concepts 2. 3. Halal Principles and Regulatory Framework in Tourism & Agribusiness	

4. Types of Agrotourism: Crop, Livestock, Fisheries, Plantation, and Agro-eco Tourism
5. Halal Requirements for Agrotourism Facilities (Accommodation, Food, Worship Needs)
6. Farm-Based Learning: Educational Tours, Demonstration Plots, Interactive Activities
7. Halal Agro-Culinary Tourism: Farm-to-table, Food Handling, Local Products
8. Halal Risk Management and Critical Points in Agrotourism Services
9. Value Chain Analysis for Halal Agrotourism Enterprises
10. Agrotourism Business Models and Feasibility Study
11. Marketing Strategies: Branding, Digital Marketing, Tourism Packaging
12. Community-Based Agrotourism and Rural Empowerment

■ *Recommended Literature*

Main Textbooks

1. Battour, M., & Ismail, M. N. (2016). Halal Tourism: Concepts, Practices, and Research Directions. Elsevier.
2. Tieman, M. (2019). Halal Business Management: A Guide to Achieving Halal Excellence. Springer.
3. Sharpley, R., & Telfer, D. (2019). Tourism and Agriculture: New Geographies of Production and Consumption. Routledge.
4. BPJPH. Halal Service and Product Assurance Guidelines.

Supporting Books & Journals

1. Lane, B. (2018). Rural Tourism and Agritourism. Routledge.
2. Kastenholz, E. (2021). Sustainable Rural Tourism.
3. Riaz, M. N., & Chaudry, M. M. (2020). Halal Food Production (2nd ed.). CRC Press.
4. Journal of Islamic Marketing (Emerald).
5. Journal of Sustainable Tourism.
6. Journal of Halal Product and Research (JHPR).

Regulatory & Digital Sources

1. OIC/SMIIC. Halal Tourism Standards.
2. Ministry of Tourism Indonesia. Guidelines for Halal Tourism Development.
3. LPPOM MUI. HAS 23000 – Halal Assurance for Food & Services.
4. UNWTO Reports on agro-eco tourism.

HALAL FOOD

■ *Module Name*	Halal Food
■ *Module level,if applicable*	-
■ *Module identification code*	FST6092040
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Nunuk Ardiani/Eny Dwiningsih
■ *Language*	Indonesian
■ *Relation to curriculum*	Elective Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	● Total Hours Lecture (Face to Face) Per Semester = 23.33 ● Hours of Midterm and Final Exam Per Semester = 3.33 ● Practical Total Hours = 0.00 ● Total Hours of Structure and Self Study Per Semester = 37.33 ● Lecture (ECTS) = 2.13 ● Practical (ECTS) = 0.00 ● Total ECTS = 2.13
■ *Credit points*	2 Credit Hours (2-0) ≈ 2.13 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.
■ *Intended learning outcomes*	
Upon completion of this course, students will be able to: 1. Explain the fundamental principles of halal, haram, thayyib, and maqashid shariah in food systems. 2. Identify halal and non-halal food sources, including plant, animal, microbial, synthetic, and processed ingredients 3. Classify and evaluate food additives, processing aids, enzymes, emulsifiers, and colorants from halal perspective 4. Explain processing steps (slaughtering, extraction, fermentation, mixing, packaging) and analyze their halal implications 5. Interpret halal food regulations and standards, including BPJPH, MUI, Codex, and OIC/SMIIC 6. Assess halal-related risks in food production, processing, kitchen operations, and distribution	
■ *Module Content*	
1. Introduction to Halal Food Concepts 2. Principles of Halal–Haram–Thayyib 3. Sources of Halal Food: Plant, animal, marine, fungi, microbial	

4. Non-Halal Sources: Pork, carrion, intoxicants, harmful materials
5. Halal Slaughtering Standards (Syubhat & Critical Points)
6. Food Additives (E-Numbers): Emulsifiers, colorants, preservatives
7. Fermented and Enzyme-Based Products
8. Gelatin, collagen, amino acids, dairy enzymes: halal alternatives
9. Halal Food Processing Flow: From raw materials to final product
10. Contamination and Cross-Contamination in Food Systems
11. Halal Packaging, Storage, and Distribution
12. Reading Food Labels: Ingredients, certification, traceability
13. Halal Certification Requirements: BPJPH, MUI, OIC/SMIIC, Codex

■ *Recommended Literature*

Main Textbooks

1. Riaz, M. N., & Chaudry, M. M. (2020). Halal Food Production (2nd ed.). CRC Press.
2. Bonne, K., & Verbeke, W. (2020). Halal Food Production and Processing. Springer.
3. Tieman, M. (2019). Halal Business Management. Springer.
4. BPJPH. Halal Product Assurance Standards and Guidelines.

Supporting Books & Journals

1. Al-Qaradawi, Y. (2019). The Lawful and the Prohibited in Islam.Halal Product Assurance Agency, Indonesia. Documentation on Raw Materials & Additives.
2. Journal of Halal Product and Research (JHPR).

PRACTICE OF HALAL FOOD

■ *Module Name*	Practice Halal Food
■ *Module level,if applicable*	-
■ *Module identification code*	FST6092040
■ *Semester(s) in which the module is taught*	6
■ *Person(s) responsible for the module*	Nunuk Ardiani/Eny Dwiningsih
■ *Language*	Indonesian
■ *Relation to curriculum*	Elective Course for undergraduate program in Agribusiness
■ *Teaching methods, contact hours*	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.
■ *Workload*	■ Total Hours Lecture (Face to Face) Per Semester = 0.00 ■ Hours of Midterm and Final Exam Per Semester = 4.00 ■ Total Hours Practical = 35.00 ■ Total Hours of Structure and Self Study Per Semester = 23.33 ■ Lecture (ECTS) = 0.00 ■ Practical (ECTS) = 2.08 ■ Total ECTS = 2.08
■ *Credit points*	1 Credit Hours (1-0) ≈ 2.08 ECTS
■ *Admission and examination requirements*	• Enrolled in this course • Minimum 80% attendance in lecture • 100% attendance in structured task groups
■ *Recommended prerequisites*	-
■ *Media employed*	Classical teaching tools with projector, LCD, and TV media with PowerPoint presentation
■ *Forms of assessment*	Practical 30%, Mid-term test 30%, Final test 40%.

■ *Intended learning outcomes*

Upon completion of this course, students will be able to:

1. Identify and evaluate raw materials (plant, animal, microbial, synthetic) based on halal standards
2. Perform halal ingredient tracing, including origin, processing aids, and supply chain verification.
3. Apply halal slaughtering principles (for understanding; demonstrations may be observational depending on policy).
4. Demonstrate halal food handling and processing practices to prevent contamination.
5. Implement halal assurance procedures including documentation, SOPs, and record-keeping.

■ *Module Content*

1. Introduction: Scope of Halal Food Practices
2. Identification of Halal vs. Non-Halal Ingredients
3. Practical Analysis of Additives (E-numbers, enzymes, emulsifiers)
4. Halal Slaughtering Principles (demo/observation, if permitted)
5. Safe and Halal Food Handling: Cleaning, sanitation, and segregation

6. Simulation of Halal Food Processing:
   Juice, jam, yogurt
   Bakery and confectionery
   Fermented products (tempeh, yogurt analogs)
7. Halal Risk Points in Kitchen and Processing Rooms
8. Documentation Practice:
   Ingredient list
   Product description
   Hazard analysis
   Process flow diagram
9. Halal Traceability Exercises (paper-based and digital)

■ *Recommended Literature*

Main Textbooks

10. Riaz, M. N., & Chaudry, M. M. (2020). Halal Food Production (2nd ed.). CRC Press.
11. Bonne, K., & Verbeke, W. (2020). Halal Food Production and Processing. Springer.
12. Tieman, M. (2019). Halal Business Management. Springer.
13. BPJPH. Halal Product Assurance Standards and Guidelines.

Supporting Books & Journals

1. Al-Qaradawi, Y. (2019). The Lawful and the Prohibited in Islam.Halal Product Assurance Agency, Indonesia. Documentation on Raw Materials & Additives.
2. Journal of Halal Product and Research (JHPR).

FACULTY OF SCIENCE AND TECHNOLOGY
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