



**Departemen
Agribisnis**



**DIKTISAINTEK
BERDAMPAK**

CURRICULUM STRUCTURE (K2020)

**UNDERGRADUATE (S1) AGRIBUSINESS PROGRAM
FACULTY OF ECONOMICS AND MANAGEMENT
IPB UNIVERSITY**

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PREFACE

We express our sincere gratitude to Almighty God for His grace and blessings, by which the 2020 Curriculum Book (K2020) of the Undergraduate (S1) Agribusiness Study Program, Faculty of Economics and Management, IPB University, has been successfully prepared and completed.

The dynamic development of the agricultural sector, changes in the global economic landscape, advances in digital technology, and the increasing complexity of the needs of industry and the labor market demand adaptive and responsive updates in higher education systems, including agribusiness education. In response to these challenges, the Department of Agribusiness has developed and refined the K2020 curriculum as a concrete commitment to producing graduates who are competent, adaptive, and highly competitive in the development of sustainable tropical agribusiness.

The K2020 curriculum is designed based on the Indonesian National Qualifications Framework (Kerangka Kualifikasi Nasional Indonesia/KKNI) Level 6 and incorporates inputs from various stakeholders, including industry, government institutions, professional organizations such as the Indonesian Agribusiness Association (AAI) and the Indonesian Agricultural Economics Association (PERHEPI), as well as alumni. This curriculum emphasizes the strengthening of system, enterprise, and entrepreneurial competencies in tropical agribusiness.

The formulated Learning Outcomes of Graduates reflect a commitment to human resource development that not only ensures strong academic and technical capabilities, but also fosters entrepreneurial character, leadership, social responsibility, and systems thinking in addressing increasingly complex and dynamic agribusiness challenges.

The structure of the K2020 curriculum is designed in a holistic and integrative manner, comprising several learning components: (1) general basic courses, (2) agribusiness literacy and academic foundations, (3) program-specific advanced courses, (4) field-based learning experiences through capstone projects and internships, and (5) elective courses that provide opportunities for students to explore their individual interests. All of these components are directed toward preparing students to become agribusiness entrepreneurs, professional managers, as well as consultants and facilitators in various institutions.

We extend our highest appreciation to all lecturers, curriculum development teams, partners, and all parties who have contributed to the formulation of this curriculum. It is our hope that the K2020 curriculum will serve as a useful and effective guideline in the implementation of the learning process and will further strengthen the Undergraduate Agribusiness Study Program as a leading program at both national and global levels.

Finally, we hope that this curriculum book will provide clear and strategic direction in achieving the vision of the study program, namely: "To become a globally leading undergraduate education program in the development of knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness by 2024."

Bogor, April 2020

Head of the Department of Agribusiness
Faculty of Economics and Management
IPB University

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UNDERGRADUATE PROGRAM CURRICULUM AGRIBUSINESS STUDY PROGRAM FACULTY OF ECONOMICS AND MANAGEMENT, IPB UNIVERSITY

1. INTRODUCTION

The term agribusiness has long been recognized by the Indonesian public. It became more widely known in Indonesia when the concept of agribusiness was incorporated into agricultural development policies, particularly during the Second Phase of the Long-Term Development Plan in the New Order era in 1995. Agribusiness was positioned as a corrective perspective to the conventional view of agriculture, which had previously focused primarily on primary production activities at the farm level (on-farm). This perspective expanded agriculture into a broader agricultural business framework that integrates on-farm activities with off-farm activities.

Although the term agribusiness is widely recognized in Indonesia, it may be interpreted differently and has often been subject to debate. The agribusiness concept adopted in agribusiness education at the Department of Agribusiness, Faculty of Economics and Management, refers to the definition proposed by Davis and Goldberg (1957), namely:

“Agribusiness means the sum total of all operations involved in the manufacture and distribution of farm supplies; production operations on the farm; and the storage, processing, and distribution of farm commodities and items made from them.”

This definition indicates that agribusiness encompasses a broader range of activities beyond on-farm operations, as previously described. Nevertheless, this broader scope does not imply the absence of a clear fundamental concept. The core concept of agribusiness, in this context, is defined as all business activities related to on-farm agricultural production. Agribusiness is therefore understood as a group of firms based on agricultural resources that collectively form a system known as the agribusiness system.

The definition positions agriculture in a far more strategic role than agriculture viewed merely as on-farm activities. The significance of agribusiness aligns with the evolution of human civilization and environmental changes related to agriculture. Increasing global food demand, the growing complexity of consumer requirements for agricultural products, and the degradation of environmental resources supporting agriculture have placed agribusiness in an increasingly critical position. Consequently, the development of agribusiness, both in Indonesia and globally in general, requires competent human resources with strong expertise in the field of agribusiness.

2. VISION, MISSION, AND OBJECTIVES OF STUDY PROGRAM

2.1 Vision of the Undergraduate Agribusiness Study Program, Faculty of Economics and Management, IPB University

The vision of the Undergraduate Agribusiness Study Program is derived from the vision of the Department of Agribusiness. The vision of the Department of Agribusiness was formulated in reference to the mandate of the Department as stipulated in Rector's Decree No. 001/K13/PP/2005, as well as the Vision of IPB University and the Vision of the Faculty of Economics and Management.

The long-term vision of IPB University, formulated since 2003 and established as IPB Vision 2025, is *"To become an internationally recognized university in the development of science, technology, and human resources with core competencies in tropical agriculture."* Meanwhile, the Vision of the Faculty of Economics and Management is *"To become a center of excellence in education, research, and services in the fields of economics and management with a holistic perspective, grounded in strong quantitative and qualitative analytical approaches, and oriented toward the sustainability of development for the improvement of human well-being."*

The mandate of the Department of Agribusiness is *"the development of knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness."*

By translating the Vision of IPB University and the Vision of the Faculty of Economics and Management, and by taking into account the mandate of the Department of Agribusiness as well as the available resources, the Vision of the Department of Agribusiness is formulated as follows:

"To become a globally leading higher education institution in the development of knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness".

Based on the Vision of the Department, the Vision of the **Agribusiness Study Program** is formulated as follows:

"To become a globally leading undergraduate education program in the development of knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness".

2.2 Mission of the undergraduate Agribusiness Study Program, Faculty of Economics and Management, IPB University

The Mission of the Undergraduate Agribusiness Study Program is formulated as an elaboration of the Vision of the Undergraduate Agribusiness Study Program and is derived from the Mission of the Department of Agribusiness, which in turn reflects the Vision of the Department of Agribusiness.

The Mission of the Undergraduate Agribusiness Study Program is as follows:

1. To provide a high-quality and highly competitive undergraduate education program in sustainable tropical agribusiness that is responsive to societal needs.

2. To enhance the quality of human resources through the development of systems thinking, business competence, and entrepreneurial capabilities in sustainable tropical agribusiness.
3. Menerapkan Ilmu dan wawasan agribisnis tropika berkelanjutan dalam pengembangan agribisnis Indonesia yang inklusif dan berdaya saing

2.3 Objectives of the Undergraduate Agribusiness Study Program, Faculty of Economics and Management, IPB University

The objectives of the Undergraduate Agribusiness Study Program refer to the objectives of the Department of Agribusiness and constitute an elaboration of the Vision and Mission of the Undergraduate Agribusiness Study Program.

The objectives of the Undergraduate Agribusiness Study Program are as follows:

1. To produce high-quality and highly competitive graduates with an entrepreneurial mindset in sustainable tropical agribusiness, in accordance with societal needs
2. To establish the Undergraduate Agribusiness Program as a leading study program capable of responding to societal demands, national development priorities, and global changes

3. PROFIL OF THE UNDERGRADUATE AGRIBUSINESS STUDY PROGRAM

Graduates of the Undergraduate Agribusiness Program, Faculty of Economics and Management, IPB University, are expected to be able to perform the following roles:

1. Agribusiness Entrepreneurs
2. Professional Managers in agribusiness enterprises, government institutions, and financial institutions
3. Consultants and Facilitators in the field of agribusiness

4. COMPETENCIES AND LEARNING OUTCOMES OF THE UNDERGRADUATE AGRIBUSINESS STUDY PROGRAM

4.1 Graduate Competencies

Referring to the Vision and Mission of the Agribusiness Study Program as well as the established graduate profile—based on the results of tracer studies—the graduate competencies of the Undergraduate Agribusiness Program, Faculty of Economics and Management, IPB University, aligned with Indonesian National Qualifications Framework (KKNI) Level 6, are formulated as follows:

A. Work Skills:

1. Able to apply and utilize knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness for the development and resolution of agribusiness problems in Indonesia, with adaptability to environmental changes.

B. Knowledge Mastery

2. Able to master theories and concepts of economics, business, and entrepreneurship for strategic and operational decision-making, as well as problem-solving in the field of sustainable tropical agribusiness.

C. Authority and Responsibility

3. Able to make strategic and operational decisions using quantitative and qualitative methods, and to recommend alternative solutions individually and in teams in the field of sustainable tropical agribusiness.
4. Demonstrates responsibility and strong professional character in applying knowledge and perspectives in sustainable tropical agribusiness within society.

4.2 Alignment of the Undergraduate Agribusiness Program Competencies with KKN Level 6

The alignment of the competencies of the Undergraduate Agribusiness Program, Faculty of Economics and Management, IPB University, with KKN Level 6 is presented in Table 1.

Table 1. Alignment of the Undergraduate Agribusiness Program Competencies with KKN Level 6

KKN Competency Domain	KKN Competency Descriptor (Level 6)	Undergraduate Agribusiness Program Competencies
Work Skills	Able to apply expertise and utilize science, technology, and/or arts in the respective field for problem-solving, and to adapt to the situations encountered.	Able to apply and utilize knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness for the development and resolution of agribusiness problems in Indonesia, with adaptability to environmental changes.
Knowledge Mastery	Able to master general theoretical concepts of a particular field of knowledge and in-depth theoretical concepts of specific parts of that field, and able to formulate procedural solutions to problems.	Able to master theories and concepts of economics, business, and entrepreneurship for strategic and operational decision-making, as well as problem-solving in the field of sustainable tropical agribusiness.

KKNI Competency Domain	KKNI Competency Descriptor (Level 6)	Undergraduate Agribusiness Program Competencies
Managerial Skills	<ul style="list-style-type: none"> • Able to make appropriate decisions based on information and data analysis, and to provide guidance in selecting various alternative solutions individually and in groups. • Responsible for one's own work and capable of being entrusted with responsibility for achieving organizational performance outcomes. 	<ul style="list-style-type: none"> • Able to make strategic and operational decisions in the field of tropical agribusiness using quantitative and qualitative methods, and to recommend alternative solutions individually and in teams in sustainable tropical agribusiness. • Demonstrates responsibility and strong professional character in applying knowledge and perspectives in sustainable tropical agribusiness within society.

4.3 Program Learning Outcomes (PLOs)

The Program Learning Outcomes (PLOs) of the Undergraduate Agribusiness Study Program are derived from the graduate profile and are formulated with reference to agreements with associations of similar study programs and professional organizations, namely the Indonesian Agribusiness Association (AAI) and the Indonesian Agricultural Economics Association (PERHEPI). The PLOs are aligned with the Indonesian National Qualifications Framework (KKNI) Level 6 and are periodically reviewed and updated every four to five years in accordance with developments in science, technology, and the arts (IPTEKS), as well as the needs of stakeholders, including industry and the labor market.

The formulation of Program Learning Outcomes based on the graduate profile results in nine (9) PLOs, categorized as follows:

Specific Skills (SS)

PLO 1 Demonstrate critical thinking skills in solving problems in tropical agribusiness.

PLO 2 Demonstrate the ability to identify and analyze local and global tropical agribusiness environments.

PLO 3 Demonstrate effective and persuasive written and oral communication skills in presenting business ideas.

PLO 4 Demonstrate the ability to develop business plans in the field of tropical agribusiness

Knowledge Mastery (K)

PLO 5 Demonstrate comprehensive understanding of the agribusiness system from multiple perspectives

PLO 6 Demonstrate mastery of ethical understanding and perspectives related to the tropical agribusiness environment

General Skills (GS)

PLO 7 Demonstrate competencies in data, technological, and human literacy

PLO 8 Demonstrate creativity, entrepreneurial capability, and leadership in tropical agribusiness

Attitudes (A)

PLO 9 Demonstrate the ability to work and perform effectively both independently and in teams.

4.4 Alignment of Program Learning Outcomes (PLOs) with the Competencies of Undergraduate Agribusiness Graduates, IPB University

The alignment of the Program Learning Outcomes (PLOs) with the competencies of graduates of the Undergraduate Agribusiness Study Program, Faculty of Economics and Management, IPB University, is presented in Table 2.

Table 1 Alignment of Program Learning Outcomes (PLOs) with the Competencies of Undergraduate Agribusiness Graduates, FEM IPB University

Competency	Program Learning Outcomes (PLOs)	
1. Work Skill		
Able to apply and utilize knowledge and perspectives on systems, enterprises, and entrepreneurship in sustainable tropical agribusiness for the development and resolution of agribusiness problems in Indonesia, with adaptability to environmental changes.	PLO1	Demonstrate critical thinking skills in solving tropical agribusiness problems (SS 1)
	PLO2	Demonstrate the ability to identify and analyze local and global tropical agribusiness environments (SS 2)
	PLO3	Demonstrate effective and persuasive written and oral communication skills in presenting business ideas (SS 3)
	PLO4	Demonstrate the ability to develop business plans in the field of tropical agribusiness (SS 4)
2. Knowledge Mastery		
Able to master theories and concepts of economics, business, and entrepreneurship for strategic and operational decision-making and problem-solving in sustainable tropical agribusiness.	PLO5	Demonstrate comprehensive understanding of the agribusiness system from multiple perspectives, including economic and management theories, agribusiness system concepts, business principles, and entrepreneurship concepts (K 1)
	PLO6	Demonstrate mastery of ethical understanding and perspectives related to the tropical agribusiness environment (K 2)
3. Aspek Kewenangan dan Tanggung Jawab		

Competency	Program Learning Outcomes (PLOs)	
<ul style="list-style-type: none"> • Able to make strategic and operational decisions using quantitative and qualitative methods, and to recommend alternative solutions individually and in teams in sustainable tropical agribusiness. • Demonstrates responsibility and strong professional character in applying knowledge and perspectives in sustainable tropical agribusiness within society. 	PLO7	Demonstrate competencies in data, technological, and human literacy (GS 1)
	PLO8	Demonstrate creativity, entrepreneurial capability, and leadership in tropical agribusiness (GS 2)
	PLO9	Demonstrate the ability to work and perform effectively both independently and in teams (A 1)

4.5 Alignment of Program Learning Outcomes and Graduate Profiles of the Undergraduate Agribusiness Program

The alignment matrix between the Program Learning Outcomes (PLOs) and the Graduate Profiles of the Undergraduate Agribusiness Program is presented in Table 3.

Table 2 Alignment Matrix of Program Learning Outcomes (PLOs) and Graduate Profiles of the Undergraduate Agribusiness Program, FEM, IPB University

Graduate Profiles	Program Learning Outcome (PLOs)								
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9
Agribusiness Entrepreneur	√	√	√	√	√	√	√	√	√
Professional Manager in Agribusiness Enterprises, Government Institutions, and Financial Institutions	√	√	√	√	√	√	√	√	√
Agribusiness Consultant and Facilitator	√	√	√	√	√	√	√	√	√

4.6. Alignment of Program Learning Outcomes (PLOs) with the Scientific Domains of the Undergraduate Agribusiness Program, IPB University

The scientific domain of Agribusiness represents an interdisciplinary interface encompassing the fields of economics, social sciences, management, business, entrepreneurship, and engineering. The alignment matrix between the Program Learning Outcomes (PLOs) and the scientific domains is presented in Table 4.

Tabel 3 Alignment Matrix of Program Learning Outcomes (PLOs) with the Scientific Domains of the Undergraduate Agribusiness Program, FEM, IPB University

PLO	Scientific Domains					
	Economics	Management	Entrepreneurship	Social Sciences	Engineering	Integrative Insight
PLO1	✓	✓	✓	✓		✓
PLO2	✓	✓	✓	✓	✓	✓
PLO3			✓			✓
PLO4	✓	✓	✓		✓	✓
PLO5	✓	✓	✓		✓	✓
PLO6	✓		✓	✓		✓
PLO7		✓	✓	✓	✓	✓
PLO8		✓	✓		✓	✓
PLO9			✓	✓		✓

5. CURRICULUM STRUCTURE

5.1 Alignment of Program Learning Outcomes (PLOs) with Courses in the 2020 Curriculum (K2020)

The Undergraduate Agribusiness Study Program has nine (9) Program Learning Outcomes (PLOs) encompassing aspects of attitudes, general skills, specific skills, and knowledge, as described in the previous section. Each course within the curriculum structure of the Undergraduate Agribusiness Program has been systematically designed to contribute to the achievement of the Program Learning Outcomes.

The mapping of Program Learning Outcomes to courses in the 2020 Curriculum (K2020) of the Undergraduate Agribusiness Program, Faculty of Economics and Management, IPB University, is presented in Table 5.

Tabel 4 Alignment Matrix of Program Learning Outcomes (PLOs) with Courses of the Undergraduate Agribusiness Program, FEM, IPB University (2020 Curriculum)

No	Code	Course	Credit	Sem	Percentage of Course Contribution to Program Learning Outcomes (%)									
					1	2	3	4	5	6	7	8	9	
A	Common Courses (PPKU)		34											
1	IPB1100	Islam	3(2-1)	1 & 2	1	2				6	3		5	
2	IPB1101	Christianity	3(2-1)	1	1	2				6	3		5	

No	Code	Course	Credit	Sem	Percentage of Course Contribution to Program Learning Outcomes (%)								
					1	2	3	4	5	6	7	8	9
3	IPB1102	Chatolic	3(2-1)	1	1	2				6	3		5
4	IPB1103	Hindu	3(2-1)	1	1	2				6	3		5
5	IPB1104	Budha	3(2-1)	1	1	2				6	3		5
6	IPB1110	Konghucu	3(2-1)	1	1	2				6	3		5
7	IPB1111	Pancasila	1(1-0)	1 & 2		1				3	1		1
8	IPB1114	Civic Education	1(1-0)	1 & 2		1				3	1		1
9	IPB1106	Bahasa Indonesia	2(1-1)	1 & 2	1	1	3	2	1	2	1	2	1
10	IPB1108	English*	2(1-1)	1 & 2	1	1	3	2	1	2	1	2	1
11	BIO1101	Biology	2(2-0)	1		3		4	2		2		1
12	FIS1105	Physics	2(2-0)	1	2	2		4			3		1
13	KIM1100	Chemistry	2(2-0)	1	2	2		4	1		1		1
14	EKO1102	Economics	3(2-1)	1	1	4	3	2	2	1	2	3	1
15	IPB1113	Innovative Agriculture	2(2-0)	1	1	1			3	4		5	1
16	MAT1102	Mathematics and Logical Thinking	3(2-1)	1 & 2	3	2		2	5	3	2		1
17	STA1111	Statistics and Data Analysis	3(3-0)	1 & 2	3	2		2	5	3	2		1
18	KOM1100	Computational Thinking	2(2-0)	1 & 2	2	2		2	3	2	1		
19	KPM1131	Sociology	2(2-0)	1 & 2	2	2		2	1		2		2
20	IPB1112	Sports*	1(0-1)	1 & 2	1					1		3	1
21	MAT1103	Calculus	3(2-1)	2	3	2		2	5	3	2		1
B	Foundational Literacies (FL) + Academic Core Courses (ACC)		38										
22	EKO1203	Macroeconomics	3(2-1)	3	2	2		3	5	3			2
23	AGB1214	Tropical Bio-Business	2(2-0)	3	1	3			3	4			1
24	AGB1215	Agribusiness	3(2-1)	3				6	4		7		1

No	Code	Course	Credit	Sem	Percentage of Course Contribution to Program Learning Outcomes (%)									
					1	2	3	4	5	6	7	8	9	
		Accounting												
25	AGB1226	Agribusiness Entrepreneurship	3(2-1)	3	1	2		2	1			11	4	
26	AGB1227	Agribusiness Leadership	2(2-0)	3	1		3			3	2	9		
27	AGB1231	Managerial Economics	3(2-1)	3	4	5		5			2		1	
28	AGB1234	Agribusiness System and Management	2(2-0)	3	2	2			5			2	1	
29	AGB1205	Agribusiness Quantitative Method	3(2-1)	4	1	2					7		4	
30	AGB1206	Agribusiness Forecasting	3(2-1)	4	3	2					6		4	
31	AGB1216	Agribusiness Information System	2(2-0)	4		2	2	3			1		3	
32	AGB1217	Agribusiness Consumer Behavior	3(2-1)	4	3	3	3	2		6	2			
33	AGB1225	Agribusiness Risk	2(2-0)	4	2	2					2	4	2	
34	AGB1228	Agribusiness Negotiation	2(2-0)	4	2		3			3	1	2	2	
35	AGB1235	Agribusiness Law and Ethics	2(2-0)	4	1	2	3			8		2		
36	AGB1305	Agribusiness Operation Research	3(2-1)	5	3	2					6		4	
C	In-depth Prodi Courses (IPC)		29											
37	AGB1312	Farm Management	3(2-1)	5	1	2	3	3	5		2		2	
38	AGB1314	International Business	2(2-0)	5	1	2			4	4			2	
39	AGB133E	Agribusiness Feasibility Study	3(2-1)	5	3	3	5		4		3			
40	AGB133H	Agribusiness Cooperative and Institution	3(2-1)	5	3	2	5		1	3		6	2	
41	AGB133A	Agribusiness Development and Politics	2(2-0)	5	3	2	8		4				2	
42	AGB133C	Agribusiness Marketing	2(2-0)	5	3	1	1	1	2	2	1			
43	AGB1306	Agribusiness Research Methodology	3(2-1)	6	3	2	5		3		3		2	
44	AGB1333	Agribusiness Finance	3(2-1)	6	3			5	4		4		2	
45	AGB133D	Agribusiness Value	2(2-0)	6	2	3			4	2	1			

No	Code	Course	Credit	Sem	Percentage of Course Contribution to Program Learning Outcomes (%)										
					1	2	3	4	5	6	7	8	9		
		Chain													
46	AGB133F	Agribusiness Strategy and Policy	3(2-1)	6	2	5		2	5					2	
47	AGB133G	Agribusiness Planning	3(2-1)	6		3	8	7		6					
D	Final Years, Capstone, KKNT, Magang		22												
48	AGB1422	<i>Agribusiness Entrepreneurial Experience</i>		7											
49	AGB1423	<i>Agribusiness Managerial Experience</i>	11(0-11) – Choose one	7	5	6	10	9	3	5	6	11	14		
50	AGB1434	<i>Agribusiness Development Policy Experience</i>		7											
51	IPB1400	Community Development		4(0-4)	7	2	2	5	3	2	4	2	4	2	
52	AGB1498	Seminar	1(0-1)	7 & 8	1	1	1		1		1	1	1		
53	AGB1499	Final Project	6(0-6)	7 & 8	4	3	8	5	4	6	2	3	5		
E	Enrichment Course (EC) – Elective		21												
54		Courses from other Program in IPB		3 sd 8											
55		Courses from other Program outside IPB		3 sd 8											
56		Credit Earning (Foreign)	21 (can be taken starting in the 3rd semester)	3 sd 8	10	11	18	16	6	10	17	32	17		
57		Internship (Domestic/Foreign)		3 sd 8											
58		Exchange/ International Exposure		3 sd 8											
59		Competitin		3 sd											

No	Code	Course	Credit	Sem	Percentage of Course Contribution to Program Learning Outcomes (%)									
					1	2	3	4	5	6	7	8	9	
				8										
60		Entrepreneur Schemes		3 sd 8										
61		Independent Project/Village Program/Research		3 sd 8										
Total (SKS)			144											

5.2 Curriculum Structure of the Undergraduate Agribusiness Program, FEM IPB

After the Program Learning Outcomes (PLOs) are elaborated into fields of study or disciplinary domains, these linkages are further described and developed into the curriculum structure through five main components:

1. Common Core Courses (CCC) and Foundational Courses (FC);
2. Foundational Literacies (FL) and Academic Core Courses (ACC);
3. In-depth Core Courses (IPC);
4. Final Year Project, Capstone Courses, Community Service Program (KKN-T), and Internships; and
5. Enrichment Courses/Programs (mandatory and elective).

These components are mapped in detail into individual courses within the curriculum structure of the Undergraduate Agribusiness Study Program.

Tabel 6 Summary of Curriculum Components of the 2020 Curriculum (K2020)

No	Component	Credit	%
1	<i>Common Core Courses (CCC) + Foundational Course (FC)</i>	34	24
2	<i>Foundational Literacies & Academic Core Courses (FL & ACC)</i>	38	26
3	<i>In-dept Core Courses (IPC)</i>	29	20
4	<i>Final Year Project, Capstones, KKN-T, Magang</i>	22	15
5	<i>Enrichment Courses/Programs (Elective)</i>	21	15
	TOTAL	144	100

The following section outlines the courses included in each curriculum component of the 2020 Undergraduate Agribusiness Program (K2020), FEM IPB

A. Common Core Course (CCC) + Foundational Course (FC)

Code	Courses	Credit	Semester	
			Odd	Even
	A1. National Course			
IPB1100	Islam	3(2-1)	1	2
IPB1101	Christianity	3(2-1)	1	
IPB1102	Chatolic	3(2-1)	1	
IPB1103	Hindu	3(2-1)	1	
IPB1104	Budha	3(2-1)	1	
IPB1110	Konghucu	3(2-1)	1	
IPB1111	Pancasila	1(1-0)	1	2
IPB1114	Civic Education	1(1-0)	1	2
IPB1106	Bahasa Indonesia	2(1-1)	1	2
IPB1108	English*	2(1-1)	1	2
	A2. Science and Society Courses			
BIO1101	Biology	2(2-0)	1	
FIS1105	Physics	2(2-0)	1	
KIM1100	Chemistry	2(2-0)	1	
EKO1102	Economics	3(2-1)	1	
IPB1113	Innovative Agriculture	2(2-0)	1	
	A3. Quantitative Reasoning Courses			
MAT1102	Mathematics and Logical Thinking	3(2-1)	1	2
STA1111	Statistics and Data Analysis	3(3-0)	1	2
KOM1100	Computational Thinking	2(2-0)	1	2
	A4. Sosiologi/Humaniora Courses			
KPM1131	Sociology	2(2-0)	1	2
	A5. Sports/Art/Business			
IPB1112	Sports*	1(0-1)	1	2
	A6. Foundational Course (FC)			
MAT1103	Calculus	3(2-1)		2

Code	Courses	Credit	Semester	
			Odd	Even
Total		34(27-7)		

Notes: *Learning Hour (LH)

B. Foundational Literacies (FL) + Academic Core Courses (ACC)

Code	Courses	Credit	Prerequisite	Semester	
				Odd	Even
EKO1203	Macroeconomics	3(2-1)	EKO1102	3	
AGB1214	Tropical Bio-Business	2(2-0)	EKO1102	3	
AGB1215	Agribusiness Accounting	3(2-1)	EKO1102	3	
AGB1226	Agribusiness Entrepreneurship	3(2-1)		3	
AGB1227	Agribusiness Leadership	2(2-0)		3	
AGB1231	Managerial Economics	3(2-1)	EKO1102	3	
AGB1234	Agribusiness System and Management	2(2-0)		3	
AGB1205	Agribusiness Quantitative Method	3(2-1)	MAT1103 STA1111		4
AGB1206	Agribusiness Forecasting Agribisnis	3(2-1)	MAT1103		4
AGB1216	Agribusiness Information System	2(2-0)			4
AGB1217	Agribusiness Consumer Behavior	3(2-1)	EKO1102		4
AGB1225	Agribusiness Risk	2(2-0)	AGB1214		4
AGB1228	Agribusiness Negotiation	2(2-0)	AGB1214		4
AGB1235	Agribusiness Law and Ethics	2(2-0)			4
AGB1305	Agribusiness Operation Research	3(2-1)		5	
Total		38(30-8)			

C. In-depth Prodi Courses (IPC)

Code	Courses	Credit	Prerequisite	Semester	
				Odd	Even
AGB1312	Farm Management	3(2-1)	EKO1102	5	
AGB1314	International Business	2(2-0)		5	
AGB133E	Agribusiness Feasibility Study	3(2-1)	AGB1214	5	
AGB133H	Agribusiness Cooperative and Institution	3(2-1)		5	
AGB133A	Agribusiness Development and Politics	2(2-0)		5	
AGB133C	Agribusiness Marketing	2(2-0)	EKO1102	5	
AGB1306	Agribusiness Research Methodology	3(2-1)	AGB1205, AGB1206		6
AGB1333	Agribusiness Finance	3(2-1)	AGB1215		6

Code	Courses	Credit	Prerequisite	Semester	
				Odd	Even
AGB133D	Agribusiness Value Chain	2(2-0)	EKO1102		6
AGB133F	Agribusiness Strategy and Policy	3(2-1)	AGB1214		6
AGB133G	Agribusiness Planning	3(2-1)	AGB1214		6
	Total	29(22-7)			

D. Final Years, Capstone, Community Development

Code	Courses	Credit	Prerequisite	Semester	
				Odd	Even
	E1. Capstone**				
AGB1422	<i>Agribusiness Entrepreneurial Experience</i>	11(0-11)	>105 credit	7	
AGB1423	<i>Agribusiness Managerial Experience</i>				
AGB1434	<i>Agribusiness Development Policy Experience</i>				
	E2. Community Development				
IPB1400	Community Development	4(0-4)	≥108 credit	7	
	E3. Final Years				
AGB1498	Seminar	1(0-1)	>105 credits, GPA >2.00 AGB1306	7	8
AGB1499	Final Proyek	6(0-6)	>105 sks, GPA >2.00 AGB1306	7	8
	Total	22(0-22)			

Note: ** Choose one

E. Komponen Enrichment Courses (EC)-Elective

Kode	Nama Matakuliah	Credit	Prasyarat	Semester	
				Odd	Even
	Courses from another Program in IPB	21		3,5,7	2,4,6
	Courses from another Program outside IPB				
	Credit Earning (Foreign)				
	Internship (Domestic/Foreign)				
	Exchange/ International Exposure				
	Competitin				
	Entrepreneur Schemes				
	Independent Project/ Village Program/Research				
	Total	21			

The curriculum structure is also presented in Figure 1

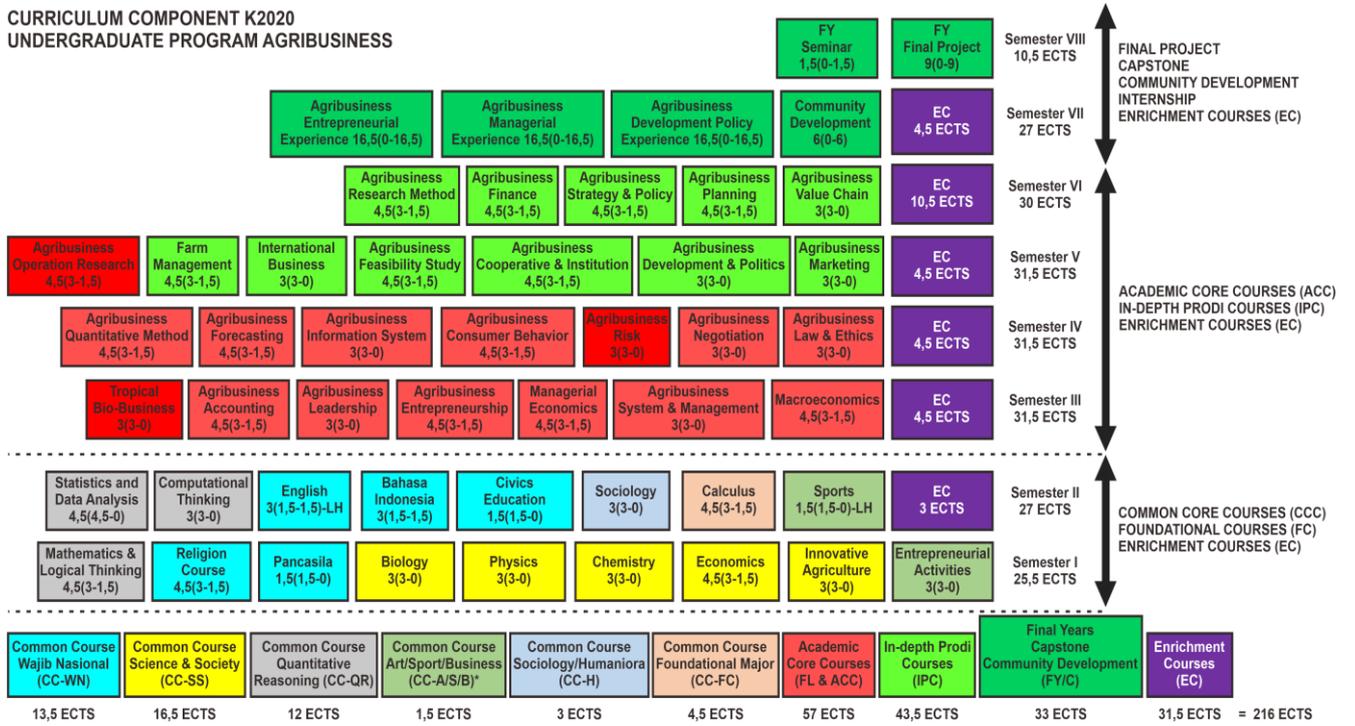


Figure 1 Structure of the 2020 Agribusiness Curriculum (K2020), FEM IPB

Course Description

1. **AGB1214 Tropical Bio-Business** **2(2-0)**

Prerequisite: EKO1102

The objective of this course is to give knowledge to students regarding basic concepts in business related to tropical agribusiness using economic and management theory. This course is started by explaining business in society, tropical bio-business characteristics, determining the form of start-up business, business in changing environment, agribusiness system in tropical bio-business, resource allocation decision making in business, managing business in functional management perspective, role of ICT in business, risk and uncertainty in business

Anna Fariyanti, Harianto, Dwi Rachmina, Netti Tinaprilla, Yusalina

2. **AGB1215 Agribusiness Accounting** **3(2-1)**

Prerequisite: EKO1102

This course explains the accounting/financial transaction process, financial report creation, financial report analysis, service firm accounting, cash accounting, account receivable and temporary investment, inventory accounting, fixed asset accounting, cost accounting, calculation of firm's price of goods, determining price, standard cost and deviation analysis, and short run profit planning.

Dwi Rachmina, Netti Tinaprilla, Tintin Sarianti, Tursina Andita Putri

3. **AGB1226 Agribusiness Entrepreneurship** **3(2-1)**

This course is design to give knowledge to students on the development of entrepreneurship concepts, role of creativity, innovation and other intelligence in entrepreneurship and other things related to becoming entrepreneur.

Etriya, Burhanuddin, Rachmat Pambudi, Narni Farmayanti

4. **AGB1227 Agribusiness Leadership** **2(2-0)**

This course explains the definition, scope and theory on leadership; value; leadership behaviour and style; communication; negotiation; decision making and motivation in leadership; and conflict management in organisation and business society.

Wahyu Budi Priatna, Burhanuddin, Joko Purwono, Maryono

5. **AGB1231 Managerial Economics** **3(2-1)**

Prerequisite: EKO1102

This course gives knowledge, skill and ability to students regarding the scope of managerial economics; economics optimization process; supply and demand theory, demand estimation and analysis; demand forecasting; theory and production function, input allocation; concept and theory of cost in short-run and long-run; market structure consists of perfect market, monopoly, oligopoly and monopolistic competition; price determination practices which consists of mark-up pricing, price discrimination and price determination of multi-product; risk in

economic analysis, utility theory and risk analysis, and technique in decision making in uncertainty and capital budgeting process.

Nia Rosiana, Amzul Rifin, Harianto, Ratna Winandi, Herawati, Tursina Andita Putri

6. AGB1234 Agribusiness System and Management 2(2-0)

This course teaches concept, scope and agribusiness system and management performance analysis and system framework application and management in various agribusiness commodities sustainably in firm, regional and national level.

Bayu Krisnamurthi, Rita Nurmalina, Rachmat Pambudi, Dwi Rachmina, Feryanto

7. AGB1205 Agribusiness Quantitative Method 3(2-1)

Prasyarat: MAT1103

This course gives knowledge, skill and ability to students on the use, requirements and procedure for various statistical method use in analysing business problems, which consists of interdependence bivariate nonparametric statistical method, bivariate dependency, multivariate dependency and multivariate interdependency.

Amzul Rifin, Harmini, Tintin Sarianti, Herawati

8. AGB1206 Agribusiness Forecasting 3(2-1)

Prerequisite: MAT1103

This course gives knowledge, skill and ability to students on business forecasting consisting of various forecasting method commonly used in planning and business decision making which consists of time series model (naive, average, trend, smoothing exponential, decomposition, ARIMA, SARIMA, ARCH/GARCH), causal method and qualitative forecasting.

Harmini, Amzul Rifin, Feryanto

9. AGB1216 Agribusiness Information System 2(2-0)

This course gives knowledge, skill and ability to students regarding problems, development, role of agribusiness information system; definition of system, information and structure of agribusiness information system; concept and ICT in agribusiness; life cycle system in agribusiness information system; personal information system; group information system; agribusiness information system evaluation and quality assurance; ethical implication of agribusiness information system.

Burhanuddin, Wahyu Budi Priatna, Maryono

10. AGB1217 Agribusiness Consumer Behaviour 3(2-1)

Prerequisite: EKO1102

This course gives knowledge, skill and ability to students on agribusiness market dynamics which consists of consumer's perspective and its scope, change in global market of agribusiness products, purchasing decision making process diagnosis, determinants of purchasing and responsibility and consumer protection in order to establish marketing strategy in agribusiness development.

11. AGB1225 Agribusiness Risk **2(2-0)**

Prerequisite: AGB1214

The objective of the course is to give knowledge regarding concept of risk and uncertainty, type of risks in agribusiness, portfolio and single risk assessment, risk preference, individual risk aversion level, decision making theory in uncertainty, game theory, risk analysis models, banking risk, risk sources mapping and risk management strategy.

Anna Fariyanti, Netti Tinaprilla, Rahmay Yanuar, Tintin Sarianti

12. AGB1228 Agribusiness Negotiation **2(2-0)**

This course discusses the concept of negotiation, individual differences, negotiation communication, negotiation ethics, effective negotiation process, conflict management, negotiation strategy, role of presentation in negotiation, business contract and cross-cultural negotiation.

Yusalina, Burhanuddin, Wahyu Budi Priatna, Nia Rosiana

13. AGB1235 Agribusiness Law and Ethics **2(2-0)**

This course gives knowledge, skill and ability to students in the legal aspect and moral principle as a framework to agribusiness stakeholder, to achieve good business decisions, fair business transaction and the creation of civility in agribusiness activities which in focused in the context of Indonesia.

Suharno, Bayu Krisnamurthi, Harianto

14. AGB1305 Agribusiness Operation Research **3(2-1)**

This course teach basic knowledge on deterministic quantitative method for planning, analysis and business decision making using linear programming and its variation consisting of goal programming, integer, transportation, transshipment, assignment, dynamic model and multi criteria decision making (analytic hierarchy process) utilising computer software.

Nunung Kusnadi, Harmini, Tintin Sarianti, Eva Yolynda, Herawati,
Tursina Andita Putri

15. AGB1312 Farm Management **3(2-1)**

Prerequisite: EKO1102

This course gives the ability to apply and to analyse economics and farm management which consists of scope, socio biophysical factors, form of organisation and farm management development characteristics, the position of farm management in agribusiness system, production faction (input) farming, and income, efficiency, bookkeeping and farm management planning.

Nunung Kusnadi, Dwi Rachmina, Anna Fariyanti, Netti Tinaprilla,
Tursina Andita Putri

16. AGB1313 International Business **2(2-0)**

This course is designed to give understanding to students regarding international business and three environments where international business is conducted; the importance of international organisation and how these organisations affects business at an international level; uncontrollable strengths which affects in all international business environment; how the manager deals with all the strength affecting business.

Amzul Rifin, Rita Nurmalina, Andriyono Kilat Adhi

17. AGB1332 Agribusiness Feasibility Study **3(2-1)**

Prerequisite: AGB1214

This course studies definition, scope and benefit of business feasibility studies; concept business, financial and economic feasibility; aspects of feasibility study; business benefit and cost; concept of time value of money; credit payment with deferred annuity; investment criteria; domestic resource cost (DRC) analysis and policy analytical matrix (PAM) method.

Rita Nurmalina, Anna Fariyanti, Nia Rosiana, Tintin Sarianti

18. AGB1336 Agribusiness Cooperative and Institution **3(2-1)**

This course is design to give understanding on: the importance of agribusiness institution as a tool for farmers in protecting and increasing their performance; how cooperative and its importance in developing agribusiness system in increasing farmers' welfare; cooperative identity and corridor; concept and the role of cooperative entrepreneurs in developing strong agribusiness cooperative; cooperative history; how is the advantage of cooperative mechanism; how to manage cooperative as a social economic dimensional institution; and strategy in developing cooperative.

Lukman M Baga, Harianto, Rahmat Yanuar, Feryanto

19. AGB133A Agribusiness Development and Politics **2(2-0)**

This course give basic knowledge, skill and ability to students in the scope and problems in agribusiness development and politics, agribusiness structure and role, source of growth, development theory, role and problems in technology and institution, market and resource location, market and government failure, policy analysis framework, surplus and elasticity theory, price policy, credit policy, marketing and technology policy and land reform.

Harianto, Bayu Krisnamurthi, Rachmat Pambudi, Suharno, Feryanto,

20. AGB133C Agribusiness Marketing **2(2-0)**

Prerequisite: EKO1102

This course give students knowledge, skill and ability to analyse on the agribusiness marketing system which consists of concept, scope, approach and agribusiness marketing system analysis based on economic perspective including

policies related to agribusiness marketing and alternative solution in increasing agribusiness marketing performance efficiency.

Netti Tinaprilla, Ratna Winandi, Suprehatin, Amzul Rifin, Nia Rosiana,
Rahmat Yanuar, Yanti N Muflikh

21. AGB1306 Agribusiness Research Methodology 3(2-1)

Prerequisite: AGB1205, AGB1206

This course gives basic knowledge on research methodology consisting of basic principle of scientific methods, research process, research design, literature review, data collection and measurement, data analysis and business research ethics. This course is also equipped with practical class to train students to understand research report and able to establish business study proposal.

Nunung Kusnadi, Dwi Rachmina, Yusalina, Eva Yolynda, Rahmat Yanuar,
Etriya, Nia Rosiana

22. AGB1333 Agribusiness Finance 3(2-1)

Prerequisite: AGB1215

This course discusses definition and scope of agribusiness finance, analysing financial planning and evaluation, agribusiness firm financial needs and concept, sources of agribusiness finance, financial sources selection decision and non market financial agribusiness

Dwi Rachmina, Netti Tinaprilla, Feryanto, Eva Yolynda, Tintin Sarianti,
Tursina Andita Putri

23. AGB133E Agribusiness Strategy and Policy 3(2-1)

Prerequisite: AGB1214

Scope of strategy and agribusiness policy, strategy formulation process starting with the identification process of strategic issues in competitive business environment, synergy and dynamic, strategy choices analysis, strategy alternative formulation analysis and strategy alternative evaluation process.

Lukman M Baga, Eva Yolynda, Rahmat Yanuar

24. AGB133G Agribusiness Planning 3(2-1)

Prerequisite: AGB1214

This course gives knowledge, skill and ability to students on definition and scope of agribusiness planning, new business planning idea selection and business development idea, business situation analysis, product/service production/operation planning, product/service marketing planning, human resource planning, business organisational planning, business collaboration planning, financial planning and financial estimation and business risk forecasting.

Rita Nurmalina, Netti Tinaprilla, Tintin Sarianti, Rahmat Yanuar

- 25. AGB133D Rantai Nilai Agribisnis** **2(2-0)**
 Prerequisite: EKO1102
 This course gives basic concepts and agribusiness value chain development. The topic includes system and value concept, the importance of value chain management in agribusiness, value chain management analysis such as mapping, coordination and agribusiness value chain governance. In addition, this course also includes value and development performance analysis and agribusiness value chain development
- Suprehatin, Yanti N Muflikh, Rita Nurmalina, Maryono
- 26. AGB1422 Agribusinesses Entrepreneurial Experience** **11(0-11)**
 Prerequisite: >105 credits
 This course gives empirical experience in taking risks in exploiting business chances to design and manage agribusiness activity competitively and sustainably.
- Burhanuddin, Tim Dosen
- 27. AGB1423 Agribusiness Managerial Experience** **11(0-11)**
 Prerequisite: >105 credits
 This course is designed to give empirical experience in planning, organising, activating and controlling agribusiness activity. In this course, the students is expected to have business decision making ability and dynamic and competitive agribusiness activity
- Yanti Nuraeni Muflikh, Tim Dosen
- 28. AGB1434 Agribusiness Development Policy Experience** **11(0-11)**
 Prerequisite: >105 credits
 This course is designed to give empirical experience in identifying problems, analysing and formulating development policy and agribusiness development in corporate or public level. In this course, students are expected to have the ability to face dynamic and competitive agribusiness environment.
- Feryanto, Tim Dosen
- 29. AGB1498 Seminar** **1(0-1)**
 Prerequisite: Credit >105, GPA >2.00, AGB1306
 This course gives experience to students to actively involved in scientific seminar forum, trains students to write their final project in the form of scientific paper and present in the final project seminar forum
- Tim Dosen
- 30. AGB1499 Tugas Akhir** **6(0-6)**
 Prerequisite: Credits >105, GPA >2.00, AGB1306
 The objective of the Final Project is to train students to formulate their research

systematically and logically in the field of agribusiness and/or introduce real research methodology application through research practice. The Final Project can be in the form of research and/or non-research. Research final projects can be in the form of scientific writing which reflects ability to conduct processes and scientific thinking patterns through practice, analysis or design activities. The form of nonresearch final report can be in the form of Field Activity Report, Literature Study, Business Plan and Scientific Work which student's won in a contest.

Tim Dosen

6. ASSESSMENT METHODS FOR PROGRAM LEARNING OUTCOMES (PLOs)

Program Learning Outcomes (PLOs)	Exam		Quiz	Oral Exam	Exercises	Paper / Report		Oral presentation		Participation Class	Project Report	
	Mid	Final				Individual	Group	Individual	Group		Individual	Group
Ability to think critically in solving tropical agribusiness problems	√	√	√	√		√	√	√	√	√	√	√
Ability to identify and analyze the local and global tropical agribusiness environment	√	√	√		√		√		√	√	√	√
Ability to communicate and present business ideas effectively and persuasively in written and oral forms	√	√	√	√			√		√	√	√	√
Ability to develop business plans in tropical agribusiness	√	√	√		√		√		√	√		√
Ability to understand agribusiness	√	√	√			√	√		√			√

Program Learning Outcomes (PLOs)	Exam		Quiz	Oral Exam	Exercises	Paper / Report		Oral presentation		Participation Class	Project Report	
	Mid	Final				Individual	Group	Individual	Group		Individual	Group
systems from multiple perspectives												
Mastery of ethical understanding and perspectives in the tropical agribusiness environment	√	√	√			√	√		√	√		√
Data, technology, and human literacy skills	√	√	√	√	√	√	√	√	√	√	√	√
Creativity, entrepreneurship, and leadership skills in tropical agribusiness	√	√		√		√	√	√	√	√	√	√
Ability to work independently and team						√	√	√	√		√	√

7. METODE PENILAIAN CAPAIAN PEMBELAJARAN PER MATAKULIAH PROGRAM SARJANA AGRIBISNIS FEM IPB

Kode	Matakuliah	Exam		Quiz	Oral Exam	Exercises	Paper / Report		Oral presentation		Participation Class	Project Report	
		Mid	Final				Individual	Group	Individual	Mid		Individual	Kel
AGB1214	Tropical Bio-Business	√	√	√				√		√	√		√
AGB1215	Agribusiness Accounting	√	√	√		√	√	√	√	√	√		√
AGB1226	Agribusiness Entrepreneurship	√	√	√			√	√	√	√	√		√
AGB1227	Agribusiness Leadership	√	√	√			√	√	√	√	√		√
AGB1231	Managerial Economics	√	√	√		√		√		√	√		√
AGB1234	Agribusiness System and Management	√	√	√				√		√	√		√
AGB1205	Agribusiness Quantitative Method	√	√	√		√		√		√	√		√
AGB1206	Tropical Bio-Business	√	√	√		√		√		√	√		√
AGB121	Agribusiness	√	√	√				√		√	√		√

Kode	Matakuliah	Exam		Quiz	Oral Exam	Exercises	Paper / Report		Oral presentation		Participation Class	Project Report	
		Mid	Final				Individual	Group	Individual	Mid		Individual	Kel
7	Accounting												
AGB1225	Agribusiness Entrepreneurship	√	√	√			√	√	√	√	√		√
AGB1228	Agribusiness Leadership	√	√	√				√		√	√		√
AGB1235	Managerial Economics	√	√	√				√		√	√		√
AGB1235	Agribusiness System and Management	√	√	√							√		
AGB1305	Agribusiness Quantitative Method	√	√	√		√		√		√	√		
AGB1312	Farm Management	√	√	√		√		√		√	√		√
AGB1314	International Business	√	√	√				√		√	√		
AGB133E	Agribusiness Feasibility Study	√	√	√		√		√		√	√		√

Kode	Matakuliah	Exam		Quiz	Oral Exam	Exercises	Paper / Report		Oral presentation		Participation Class	Project Report	
		Mid	Final				Individual	Group	Individual	Mid		Individual	Kel
AGB133H	Agribusiness Cooperative and Institution	√	√	√				√		√			√
AGB133A	Agribusiness Development and Politics	√	√	√					√	√			√
AGB133C	Agribusiness Marketing	√	√	√					√	√			√
AGB1306	Agribusiness Research Methodology	√	√	√			√		√			√	
AGB1333	Agribusiness Finance	√	√	√		√	√	√	√	√	√		√
AGB133D	Agribusiness Value Chain	√	√	√				√		√			√
AGB133F	Agribusiness Strategy and Policy	√	√	√				√		√			√
AGB133G	Agribusiness Planning	√	√	√		√		√		√			√
AGB1422	Capstone: Agribusiness				√			√		√		√	√

Kode	Matakuliah	Exam		Quiz	Oral Exam	Exercises	Paper / Report		Oral presentation		Participation Class	Project Report	
		Mid	Final				Individual	Group	Individual	Mid		Individual	Kel
	Entrepreneurial Experience												
AGB1423	Capstone: Agribusiness Managerial Experience				√			√		√	√		√
AGB1434	Capstone: Agribusiness Development Policy Experience				√			√		√	√		√
IPB1400	Community Development				√			√		√	√		√
IPB	Enrichment Course				√		√		√			√	
AGB1498	Seminar				√		√		√				
AGB1499	Final Project				√							√	