



Subject Module
 Department of Agribusiness
 Faculty of Agriculture
 University of Islam Malang

Module Handbook

Title Module	Introduction to Agricultural Science
Module Level, if available	Undergraduate, Study Program of Agribusiness
CourseCode	MKD60702
Title, if available	-
Course (MK)	Introduction to Agricultural Science
Semester	1
Course Coordinator	Dr. Ir. Zainul Arifin, MP
Teaching Team	-
Instruction language	Indonesian Language/English
Linkage to Curriculum	Study Program: Agribusiness Specialization: Agribusiness Type: Compulsory/ Elective
Method and Duration of Learning	<ol style="list-style-type: none"> 1. Lecture: 100 minutes / meeting (14 meetings) 2. Practicum: 170 minutes / meeting (8 meetings) 3. Structured assignments / individual and group assignments
Study Load Student	<ol style="list-style-type: none"> 1. Lecture: 100 minutes / meeting (14 meetings) 2. Practicum 170 minutes / meeting (8 meetings) 3. Structured assignments / quizzes / group presentations 4. Attendance: 75% of total attendance
Weight Credit	3 Credits or 5.1 ECTS
Requirements to Pass the Course	<ul style="list-style-type: none"> • Attendance $\geq 75\%$ • Final score of all components of learning evaluation ≥ 50 Final Score Components: <ul style="list-style-type: none"> • 20% Mid-Semester Exam • 20% Final Examination • 30% Practicum • 20% Structured Tasks (individual and group) • 10% Attendance
Course Prerequisites	-
Learning outcomes	The expected learning outcomes are: <ol style="list-style-type: none"> 1. Able to respond to problems regarding entrepreneurship, agribusiness, and green food (ILO 1) 2. Able to understand the rules and principles of agribusiness sciences, social sciences, economics, and agricultural techniques as the basic for innovative agribusiness disciplines (ILO 2) 3. Able to apply a variety of fundamentally oriented methods to solve specific practical problem related to agribusiness(ILO 5) 4. Able to work efficiently, independently and teams work

	<p>using a variety of methods to communicate effectively with in the scientific community and society(ILO 9)</p>
<p>Content Learning</p>	<p>After completing this course students can:</p> <ol style="list-style-type: none"> 1. Able to understand agricultural science, scope, existence, agricultural resources, food and human resources of farmers 2. Able to understand agricultural science, basic concepts, agricultural history, agricultural objectives, agricultural problems, food and technology in agriculture 3. Able to understand the concepts of temperate ecosystems, nutrients, nutrient and food cycles for human needs 4. Able to understand technological developments in agriculture 5. Able to understand the importance of agricultural development for agricultural development in Indonesia 6. Able to understand the importance of agriculture for meeting human needs along with population growth <p>The topics include:</p> <ol style="list-style-type: none"> 1. INTRODUCTION <ul style="list-style-type: none"> • Understanding Agriculture and Agribusiness • History of agriculture and Agribusiness • Scope of Agriculture and Agribusiness • Relationship between agriculture and agribusiness 2. The stages in farming in the tropics and techniques to restore soil fertility <p>Farming techniques</p> <ul style="list-style-type: none"> • Plant characteristics by region/climate • Techniques to restore soil fertility 3. History of agricultural development <ul style="list-style-type: none"> • Primitive farming • Modern agriculture • The stages of primitive agriculture to modern agriculture 4. Agricultural Ecosystem <ul style="list-style-type: none"> • Ecosystem • Types of ecosystem • Agricultural Ecosystem • Ecosystem Sustainability 5. Agriculture in Indonesia from time to time: <ul style="list-style-type: none"> • Agriculture before colonialism • Agriculture during colonialism • Agriculture in the era of imperialism • Agriculture after independence 6. Market prices and price behavior of agricultural products / Agribusiness <ul style="list-style-type: none"> • Agriculture and its classification • Agriculture, plantation, forestry, fisheries and the like 7. Institutional ins and outs of agricultural products trading: <ul style="list-style-type: none"> • Ins and outs of agricultural institutions • Agricultural product trading 8. Development of agribusiness and agro-industry in Indonesia: <ul style="list-style-type: none"> • Development of agribusiness and agro-industry • Development of agribusiness and agro-industry in Indonesia

	<p>7. Development of agribusiness and agro-industry in Indonesia:</p> <ul style="list-style-type: none"> • Development of agribusiness and agro-industry • Development of agribusiness and agro-industry in Indonesia <p>8. Development of agroecotechnology in Indonesia:</p> <ul style="list-style-type: none"> • Agrotechnology Theory • Agrotechnology development in Indonesia <p>9. Agricultural revitalization for agricultural development in Indonesia:</p> <ul style="list-style-type: none"> • Agricultural Revitalization • Agricultural Revitalization in Indonesia <p>10. Agricultural revitalization for agricultural development in Indonesia:</p> <ul style="list-style-type: none"> • Agricultural Revitalization • Agricultural Revitalization in Indonesia <p>11. The function of agriculture in fulfilling food and non-food needs:</p> <ul style="list-style-type: none"> • Definition of Food and non-food. • Function of Agriculture in fulfilling food and non-food needs <p>12. Harvest and post-harvest handling of agricultural products:</p> <ul style="list-style-type: none"> • Harvest and post-harvest • Harvesting and post-harvest handling of agricultural products
Test Terms and Forms	<p>Exam Requirements: Minimum 75% attendance to attend the final exam</p> <p>Test Form: Essay</p>
Learning Media	<p>Projector and screen, Zoom application, Google Classroom, e-book, WA Group, Learning Management System (LMS UNISMA)</p>
Reference	<p>Main Reference:</p> <ol style="list-style-type: none"> 1. Mardikanto, Tatok. 2007. Restraints' 1 Science Agriculture. Surakarta: Pustaka 2. Nainggolan, Kaman. 2005. Indonesia's Agriculture Today and Tomorrow. Sinar Harapan Library. Jakarta 3. Nasoetion, Andi Hakim. 2012. Your Introduction to Agriculture. PT. Litera Library Between Nusa: Jakarta 4. Soetriyono, A Suwandari and Rijanto 2006. Introduction to Agriculture. Bayumedia publishing: Malang