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

Module Handbook

Title Module	Agroindustry
Module Level, if available	Undergraduate, Study Program of Agribusiness
CourseCode	MKW60727
Title, if available	-
Course (MK)	Agroindustry
Semester	5
Course Coordinator	Dr. Dwi Susilowati, SP., MP
Teaching Team	Titis Surya MahaRianti, SP., MP.
Instruction language	Indonesian Language/English
Linkage to Curriculum	Study Program: Agribusiness Specialization: Agribusiness Type: Compulsory /~~Elective~~
Method and Duration of Learning	1. Lecture: 100 minutes / meeting (14 meetings) 2. Practicum 170 minutes / meeting (8 meetings) 3. Structured assignments / individual and group assignments
Study Load Student	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	• Attendance ≥75% • Final score of all components of learning evaluation ≥50 Final Score Components: • 20% Mid-Semester Exam • 20% Final Examination • 30% Prakticum • 20% Structured Tasks (individual and group) • 10% Attendance
Course Prerequisites	-
Learning outcomes	The expected learning outcomes are: 1. Able to respond to problems regarding entrepreneurship, agribusiness, and green food.(ILO 1) 2. Able to analyze the rules and principles of agribusiness sciences, social sciences, economics, and agricultural techniqueus as the basic for innovative agribusiness disciplines.(ILO 2) 3. Able to implement agribusiness entrepreneurs that meets the principles of food health and safety.(ILO 7)
Content Learning	After completing this course students can: 1. Able to identify the roles, characteristics and challenges and

	opportunities of sustainable agro-industry development 2. Able to develop quality agro-industrial products by taking into account the principles of environmentally friendly agro-industry and being able to review the technology 3. Able to evaluate agro-industrial systems both equipment and machinery as well as processing various types of commodities 4. Able to design an agro-industrial business by taking into account its operational function 5. Able to formulate aspects of human resource management, finance, marketing and quality control in an agro-industry The topics include: **1. SCOPE AND ROLE OF AGROINDUSTRY** • Understanding and Overview of Agroindustry • Scope of Agroindustry • Role of Agroindustry **2. AGROINDUSTRY CHARACTERISTICS** • How is the process of procuring raw materials in the company • Examples of agricultural product processing • The role and process of agro-industrial marketing **3. Challenges, Opportunities and Development of Agroindustry** • Agroindustry Challenges • Agroindustry Opportunities • History of Agro-industry development **4. AGROINDUSTRIAL PRODUCT PROCESSING PRINCIPLES** • Agro-industrial product processing activities • Application of environmentally friendly agro-industry • Agro-industry development and its benchmark **5. THE ROLE OF TECHNOLOGY IN AGROINDUSTRY DEVELOPMENT** • Technological characteristics • Improving the quality of agro-industry products • New product creation • Technology development **6. AGROINDUSTRY EQUIPMENT AND MACHINERY** • Agro-industrial systems for agricultural cultivation equipment and machinery • Agro-industrial systems for agricultural product processing equipment and machinery **7. FOOD COMMODITY PROCESSING AGROINDUSTRY SYSTEM** • Cereal plant physiology and technology • Physiology and technology of tubers and tubers • Physiology and technology of legumes **8. NON-FOOD COMMODITY AGROINDUSTRY SYSTEM** • Physiological characteristics of fruits and vegetables • Processed fruits and vegetables • Fruit and vegetable processing technology **9. PLANTATION COMMODITY PROCESSING AGROINDUSTRY SYSTEM** • Physiology and technology of coconut and oil palm plants • Physiology and technology of beverage plants • Physiology and technology of plant sources of sweeteners

	• Physiology and technology of fiber plants • Physiology and technology of herbaceous, medicinal and essential plants • Physiology and technology of alternative energy sources • Physiology and technology of rubber plants **10. AGROINDUSTRY SYSTEM FOR FOREST PLANT COMMODITY PROCESSING** • Physiological characteristics of forest plants • Processed products from forest plants • Forest commodity processing technology **11. AGROINDUSTRY BUSINESS PLANNING** • Analysis of the agro-industry situation • Understanding of agro-industry organization and management • Studikelayakanusaha agroindustry **12. FUNCTIONS AND OPERATIONS OF AGROINDUSTRY** • Production process • Materials or raw materials • Labor **13. HRM, FINANCIAL MANAGEMENT, AND MARKETING** • Functions and Roles of the HR Department • HR recruitment and placement • Sources of funding • Fund management and agro-industry financial development • Designing the marketing of agro-industrial products **14. MARKETING MANAGEMENT AND QUALITY CONTROL** • Market segment • Target Market • Marketing strategy • Promotion mix • Product quality
Tes tTermsand Forms	Exam Requirements: Minimum 75% attendance to attend the final exam Test Form:Essay
Learning Media	Projector and screen, Zoom application, Google Classroom, e-book, WA Group, Learning Management System (LMS UNISMA)
Reference	**Main Reference:** 1. Soekartawi. 2000. Pengantar Agroindustri. PT Raja Grafindo Jakarta. Jakarta. 2. Rente Arifin. 2018. Pengantar Agroindustri. Bandung: Mujahid Press. 3. Dominguez, P.G. and Adriono, L.S, 1994. BIMP-EAGA Agroindustrial Cooperation: a proposed frame work and plant of action. USM. 4. Mangunwidjaja, D. dan Sailah, I. 2009. Pengantar Teknologi Pertanian. Penebar Swadaya. Bogor. 5. Gruenwald, G. 1985. Seri Pemasaran dan Promosi, Pengembangan Produk Baru, PT Alex Media Komputindo, Jakarta 6. Gray C, Sabur L.C., Simanjuntak, Maspaitella P.F.L. 1986. Pengantar Evalusi Proyek. Jakarta: Gramedia. 7. Austin, J.E. 1981. Agroindustrial Project Analysis. The John Hopkins university Press. London. 8. Kadariah, Karlina L., Gray C. 1999. Pengantar Evaluasi Proyek. Jakarta: Lembaga Penerbit Fakultas Ekonomi UI.

	9. Hermawan Kartajaya dan Philip Kotler, 2002, Rethinking Marketing; Sustainable Marketing Enterprise in Asia. Jakarta: Prenhallindo 10. Sulaeman Dede. 2007. Agro Industri Ramah Lingkungan. Jakarta Selatan: Subdit Pengelolaan Lingkungan Dit. Pengelolaan Hasil Pertanian, Ditjen PPHP-Deptan 11. Haming M, dkk. 2019. *Operation Research: Teknik Pengambilan Keputusan Optimal*. Jakarta: PT. Bumi Aksara.