



Course Module
 Department of Animal Science
 Faculty of Animal Science
 Universitas Brawijaya

Module name	Integrated Farming System
Module level	Undergraduate program
Code	PEN60006
Subtitle	-
Courses	Integrated Farming System
Semester(s)	4
Person responsible for the module	Prof.Dr.Ir. Ifar Subagiyo,M.Agr.St
Lecturer	<ol style="list-style-type: none"> 1. Prof.Dr. Ir. Hendrawan S.,M.Rur.Sc 2. Prof. Dr. Ir. Ifar Subagiyo, M.Agr.St 3. Prof.Dr. Ir. Kusmartono 4. Dr.Ir. Siti Nurul Kamaliyah,MP 5. Dr.Ir. Mashudi,M.Agr.Sc,IPM 6. Dr. Ir. Herni Sudarwati, MS 7. Ir. Hanief Eko Sulisty,MP 8. Ir. Hermanto,MP 9. Artharini Irsyammawati,S.Pt.MP 10. Rini Dwi Wahyuni,S.Pt., M.Sc
Language	Bahasa Indonesia, English
Relation to curriculum	Compulsory/ elective
Type of teaching, contact hours	Contact hours and class size separately for each teaching method: lecture, lesson, project, practical etc.
Workload	Lecture : 14 meetings*100 minutes Practicum : 14 meetings*150 minutes Independent learning: 16 times*150 minutes 90.67 hours/semester for course and 42.50 for practical Lecture, Exercise, and private study
Credit points	3 credits or 5.10 ECTS
Requirements according to the examination regulations	-
Recommended prerequisites	-
Module objectives/intended learning outcomes	ILO-4: Capability to develop knowledge and comprehensive mindset based on Animal science and industry ILO-6: Proficient in biology, physiology, animal nutrition, breeding, farm management, and implementation in Animal Science ILO-7: Capability to perform an independent, standardized, measurable, effective, efficient and sustainable work

	ILO-13: Capability to implement technology in Animal Science to increase productivity, efficiency, quality and sustainability based on breeding, nutrition, processing, management as well as to organize an entrepreneurship concept and a sustainable production system
	Objectives:
	Knowledge: Able to explain the concept of plant-animal integration to produce ASUH animal products and preserve the environment, analyze various integrated agricultural systems (integration with agriculture, plantation, forestry, particularly for tropical regions, able to create a sustainable integrated agricultural system model
	Skills: cognitive- Able to know and understand about concept of plant-animal integration to produce ASUH animal products and preserve the environment, analyze various integrated agricultural systems (integration with agriculture, plantation, forestry, particularly for tropical regions, able to create a sustainable integrated agricultural system model
	Competences: Able to explain about concept of plant-animal integration to produce ASUH animal products, analyze various integrated agricultural systems
Content	<ol style="list-style-type: none"> 1. Introduction (Definition of Integrated Agricultural Systems and Overview of Integrated Agricultural Systems) 2. Concept/Theory of Systems (Components, interactions, structures, hierarchies) 3. Mixed Agricultural Systems (Definition, advantages and disadvantages, and technology used) 4. Integration of forage in plant-animal integration systems 5. Three-stratum system 6. Animal grazing systems in coconut/oil palm plantations 7. Integrated agricultural system: Agroforestry (Alley cropping, silvopasture, riparian forest buffer, windbreak, forest farming) 8. Sustainable farming 9. Organic Farming 10. Techno-ecological Agricultural Model
Study and examination requirements and forms of examination	<ol style="list-style-type: none"> 1. Midterm exam 2. Final term exam 3. Practicum 4. Structured Assignments 5. Quiz <p>How to score: Attendance >80% Midterm Exam = 30% Final Exam = 30% Practicum = 30% Structured Assignments = 5% Quiz = 5%</p> <p>A : 80 < Final Score ≤ 100 B+ : 75 < Final Score ≤ 80 B : 69 < Final Score ≤ 75 C+ : 60 < Final Score ≤ 69</p>

	C : $55 < \text{Final Score} \leq 60$ D : $50 < \text{Final Score} \leq 55$ D+ : $44 < \text{Final Score} \leq 50$ E : $0 < \text{Final Score} \leq 44$
Media employed	Class, Online learning system (Zoom and Google Classroom), projector, screens, e-book and WA Group
Reading list	Subagiyo, I and Kusmartono, 2018. Kultur Padangan, Malang: UB Press