

220221971, Innovative Agrocomplex

Module Name	Innovative Agrocomplex
Module Level, if applicable	Beginner
Code if Applicable	220221971
Subtitle, if applicable	-
Courses, if applicable	220221971, Innovative Agrocomplex
Semester(s) in which the module is taught	1 st
Person responsible for the module	Prof. Dr.Ir. Damat, M.P.
Lecturer	Prof. Dr.Ir. Damat, M.P.
Language	Bahasa Indonesia
Relation to curriculum	Compulsory Course for undergraduate program in the Food Technology Department, Faculty of Agriculture and Animal Science
Type of teaching	Lecture, project
Workload	<ul style="list-style-type: none"> ● Lecture : 2 SKS x 50 minutes x 16 weeks ● Project : 2 SKS x 60 minutes x 16 weeks ● Independent learning 2 sks x 60 minutes x 16 weeks
Credit points	SKS 2 SCH x (1.5) = 3 ECTS
Requirements according to the examination regulations	<ol style="list-style-type: none"> 1. Registered in this course 2. Minimum 80% attendance in this course
Recommended prerequisites	No Recommended prerequisites

<p>Module Objectives (Intended learning outcomes)</p>	<p>By the end of the module, students can able to:</p> <ol style="list-style-type: none"> 1. Identify the role and contribution of each study program (plant cultivation, agribusiness, food science and technology, aquaculture, forestry and animal science) in the context of agriculture and the food sector as a whole. 2. have a strong understanding of the challenges, opportunities and principles of sustainability in the agricultural sector and are able to find innovative solutions to face them 3. skilled in describing the meaning and scope of agricultural technology, indigenous food technology, technological innovation and IPR, agriculture, energy, utilization and management and able to describe food components.
<p>Module Content</p>	<p>The course is divided into two discussion topics. The first topic of discussion was discussed at the 1st to 7th meetings (before UTS), with discussion material: the role and contribution of each study program (plant cultivation, agribusiness, food science and technology, aquaculture, forestry, and animal husbandry) in the context of agriculture and the food sector as a whole. In the second topic of discussion which will be discussed at the 9th to 15th meetings (after UTS), which includes: The meaning and scope of agricultural technology, education, human resources and the food technology profession, describing indigenous food technology, technological innovation and IPR, agricultural biotechnology , energy, its utilization and management, and food</p>

	components
Study and examination requirements and forms of examination	<p>Cognitive: Midterm exam, Final exam, Quizzes, Assignments</p> <p>Affective: Assessed from the element /variables achievement, namely (a) Contributions (attendance, active, role, initiative, and language), (b) Being on time, (c) Effort.</p>
Media employed	Classical teaching tools with whiteboard and PowerPoint presentation
Recommended Literature	<ol style="list-style-type: none"> 1. Monastyrskiy, D.I., Kolesnikova, T.A. and Kulikova, M.A., 2021, March. Application of modern business models when implementing resource saving technologies in the agrocomplex. In IOP Conference Series: Earth and Environmental Science (Vol. 677, No. 2, p. 022074). IOP Publishing. 2. McWilliams, M., 2006. Food fundamentals. Rex Bookstore, Inc.. 3. Toledo, R.T., Singh, R.K. and Kong, F., 2007. Fundamentals of food process engineering (Vol. 297, p. 211). New York: Springer. 4. Pinho, S.C., de Carli, C. and Moraes-Lovison, M., 2018. Fundamentals and Food Applications. Nanotechnology Applications in the Food Industry, p.221.
Date of Last Amendment	25th August 2022