

Module Name	Agricultural Waste Bioconversion
Module Level, if applicable	Intermediate
Code if Applicable	0420206241
Subtitle, if applicable	-
Courses, if applicable	0420206241 (Agricultural Waste Bioconversion)
Semester(s) in which the module is taught	6
Person responsible for the module	Dr. Ir. Ali Ikhwan, MP. Dr. Dian Indratmi, MP
Lecturer	Dr. Ir. Ali Ikhwan, MP. Dr. Dian Indratmi, MP
Language	Indonesian
Relation to curriculum	Compulsory Courses for undergraduate program in Department of Agrotechnology, Faculty of Agriculture and Animal Science.
Type of teaching, contact hours	Type of teaching: Face to face, Practical, Demosnstration, Discussion
Workload	<ul style="list-style-type: none"> • Lecture : 2 sks × 50 minutes × 16 weeks • Project : 2 sks × 60 minutes × 16 weeks • Independent Learning 2 sks × 60 minutes × 16 weeks • Lab Work: 1 sks × 170 minutes × 16 weeks
Credit points	SKS 3 SCH x (1.5) = 4.5 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 prerequisites
Module Objectives (Intended learning outcomes)	<p>On successful completion in this course, student should be able to:</p> <ul style="list-style-type: none"> • Able to understand agricultural waste bioconversion comprehensively • Able to explain the importance of agricultural bioconversion • Able to convert agricultural waste in an integrated and environmentally safe manner • able to apply the converted waste, especially in the agricultural sector

Module Content	The course brief description through guided discussions with lecturers explains about : a) agricultural waste bioconversion, b) importance of agricultural bioconversion, c) convert agricultural waste in an integrated and environmentally safe manner, and d) apply the converted waste, especially in the agricultural sector.
Study and examination requirements and forms of examination	<p>Cognitive: Midterm exam, Final exam, Quizzes, And Assignments</p> <p>Psychomotor: Practice</p> <p>Affective: Assessed from the element /variables achievement, namely (a) Contributions (attendance, active, role, initiative, and language), (b) Being on time, and (c) Effort to understand the material.</p>
Media employed	Classical teaching tools with white board and power point presentation
Recommended Literature	<p>For Class</p> <p>A. Compulsory:</p> <ul style="list-style-type: none"> - Olena Stabnikova, Oleksandr Shevchenko, Viktor Stabnikov, and Octavio Paredes-López. 2024. Bioconversion of Wastes to Value-added Products. <p>B. Option (supporting references)</p> <ul style="list-style-type: none"> - Suruchi Singh, Pardeep Singh, Anu Sharma, and Moharana. John Wiley & Sons. 2023. Agriculture waste management and Bioresource The Circular Economy Perspective. - Vanderholm, D.H. 1984. <i>Agricultural Waste Manual</i>. Published by NZAEI, Lincoln College, Canterbury, New Zealand - Jacobs, P. 1984. <i>Agricultural Waste Management</i>. Published by PEI Department of Agriculture and Forestry, Environment Canada and Agriculture and Agrifood Canada.
Date of Last Amendment	7 th May 2024