



2023

MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Farm Machinery & Equipment Practicum

Semester 5

Module designation	Farm Machinery & Equip Practicum
Semester(s) in which the	V
module is taught	
Person responsible for the	Dr. Iqbal, STP., M.Si
module	Dr. Abdul Azis, STP., M.Si
	Muhammad Tahir Sapsal, STP., M.Si
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lab works
Workload (incl. contact hours,	(Estimated) Total workload:
self-study hours)	1 SKS = 1.7 ECTS = 45.9 hours (1 ECTS around 27 hours)
, ,	> Laboratory session = 12 hours
	> Lab report = 30 hours
	> Virtual experiment = 1 hours
	> Final examination = 2.5 hours
Credit points	1 SKS = 1.7 ECTS
Required and recommended	Mechanical Workshop Practicum
prerequisites for joining the	Engineering Design
module	
Module objectives/intended	ILO 3: Apply knowledge of mathematics, sciences, and engineering principles in
learning outcomes	agricultural fields; (Knowledge 1)
	ILO 4: Use quantitative analysis, information technology and critical thinking in
	agricultural engineering profession; (Knowledge 2)
	ILO 5: Use techniques, skills, and modern tools necessary for agricultural
	engineering practices; (Skill 1)
	ILO 7: Manage and utilise agricultural resources effectively, efficiently, and
	sustainably; (Competence 1)
	ILO8: demonstrate capacity in operating agricultural engineering related
	business either as producer or service provider; (Competence 1)
Content	able to operate modern agricultural tools and machinery modern
	agricultural tools and machinery. In addition, they are able to develop
	themselves and think logically-analytically as well as their ability to work
	and develop creativity based on the value of maritime culture.
	Understand the concept of agricultural labor and its classification
	Explain the construction and working principles of combustion motors and
	tractors
	Explain the differences between various types of tractors
Examination forms	Writing and oral exam
Study and examination	Completion of all laboratory reports
requirements	
Reading list	Principles of Farm Machinery; Tractors and Their Power Unit
	Schwab, G.O., R.K. Frevert, T.W. Edminster, and K.K. Barnes. 1981. Soil
	and Water Conservation Engineering. Third Edition. John Wiley & Sons.
	New York.
	Arsyad, S. 2006. Konservasi Tanah dan Air. IPB Press. Edisi kedua.
	Darmaga, Bogor