



2023

MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Mechanical Workshop

Semester 4

Module designation	Mechanical Workshop
Semester(s) in which the	IV
module is taught	
Person responsible for the	Dr. Iqbal, S.TP., M.Si
module	Dr. Ir. Daniel Useng, M.Eng.Sc
	Dr. Abdul Azis, STP., M.Si
	Samsuar, STP., M.Si
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture and disscusion, independent assigment, practicum
Workload (incl. contact	(Estimated) Total workload:
hours, self-study hours)	2 SKS x 1.7 = 3.4 ECTS = 91.8 hours
, ,	Lecture = 23.3 hours
	• Excercise = 28 hours
	Sel study = 28 hours
	• Exam = 4 hours (MID term and final)
	• Exam preparation = 8.5 hours
Credit points	2 SKS = 3.4 ECTS
Required and	Engineering Properties of Materials
recommended	
prerequisites for joining	
the module	
Module	ILO 3 : Apply knowledge of mathematics, sciences, and engineering principles in
objectives/intended	agricultural fields
learning outcomes	ILO 5: Use techniques, skills, and modem tools necessary for agricultural
	engineering practices.
	ILO 7 : Design simple equipment, components, or processes needed in agricultural
	engineering operations
Content	This course provides an opportunity for students to recognize and understand the
	agricultural workshop management system and introduction to workmanship
	techniques in the workshop. Coverage of the materialconsists of an introduction to
	equipment and work materials (wood and metal) as well as skills in (wood and
	metal) and skills in using basic equipment and welding both electric and both
	electric and carburetor welding and an introduction to piping, pneumatic and
	hydraulic systems piping, pneumatic and hydraulic systems
Examination forms	Writing
Study and examination	Attendance above 80%
requirements	
Reading list	• Herren, R.V.; E.L. Cooper. 2000. Agricultural Mechanics, Fundamentals and
	Application, CENGAGE Delmar Learning
	F. Nicholson. 1955. Shop Theory. Mc GrawHills
	Anonymous 2008. Careers in focus: Mechanics. 3rd ed. Infobase pub. USA