

2023 MODULE DESCRIPTION

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BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

Farm Machinery & Equipment

Farm Machinery & Equip Module designation Semester(s) in which the V module is taught Person responsible for the • Dr. Igbal, STP., M.Si module • Dr. Abdul Azis, STP., M.Si • Muhammad Tahir Sapsal, STP., M.Si Language Indonesia Relation to curriculum Compulsory Teaching methods - Lecture and discussion - Independent and group assignments Workload (incl. contact 2 SKS x 1.7 = 3.4 ECTS = 91.8 hours • hours, self-study hours) • Lecture = 23.3 hours • Excercise = 28 hours • Sel study = 28 hours • Exam = 4 hours (MID term and final) • Exam preparation = 8.5 hours 2 SKS = 3.4 ECTS Credit points **Required** and Agricultural work recommended Workshop techniques Workshop techniques prerequisites for joining the Technical Drawingv module Module ILO 3 : apply knowledge of mathematics, sciences, and engineering principles in objectives/intended agricultural fields; ILO 5: use techniques, skills, and modern tools necessary for agricultural learning outcomes engineering practices; ILO 6: manage and utilize agricultural resources effectively, efficiently, and sustainably: ILO 8: demonstrate capacity in operating agricultural engineering related business either as producer or service provider; Content The Agricultural Tools and Machinery course studies and agricultural machinery used in crop cultivation activities from pre-harvest to harvest (on farm). This course contains explanations about the scope and definition of tools and machinery (alsin) agriculture, agricultural tractors (2 and 4 wheels) and their implements. In addition, this course also discusses the working principles, operation, and maintenance of agricultural equipment. working principles, operation, and maintenance of planting equipment, chemical application equipment, weeding equipment, and harvesting equipment. harvesting tools. This course is conducted using the following methods lectures (explaining the theory), demonstrations through videos, examples of problems, giving independent assignments to students, and practicum. Examination forms Writing and essay, etc. Attendance Above 80% Study and examination

Semester 5

requirements	
Reading list	• Ciptohadijoyo, S. 1999. Alat dan Mesin Pertanian. Fakultas Teknologi Pertanian
	Universitas GadjahMada. Jogjakarta.
	• Darun, S. Matondang, Sumono. 1983. Pengantar Alat dan Mesin-Mesin
	Perkebunan. Fakultas Pertanian Universitas Sumatera Utara.Medan.

• Harris Pearson Smith, A.E., Lambert Henry Wilkes, M. S. 1988. Farm Machinery
and Equipment. McGraw-Hill Publishing