



**HASANUDDIN
UNIVERSITY**

**Agricultural
Engineering**
Bachelor Program

2023 MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Farm Machinery Management

Elective

Module designation	<i>Farm Machinery Management</i>
Semester(s) in which the module is taught	<i>Elective</i>
Person responsible for the module	<i>Dr. Iqbal Salim, STP., M.Si Dr. Abdul Azis, STP., M.Si Muhammad Tahir Sapsal, STP., M.Si.</i>
Language	<i>Indonesia</i>
Relation to curriculum	<i>Elective</i>
Teaching methods	<i>Lecture</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: 2 SKS x 1.7 = 3.4 ECTS = 91.8 hours</i> <ul style="list-style-type: none"> • <i>Lecture = 23.3 hours</i> • <i>Exercise = 28 hours</i> • <i>Self study = 28 hours</i> • <i>Exam = 4 hours (MID term and final)</i> • <i>Exam preparation = 8.5 hours</i>
Credit points	<i>2 SKS = 3.4 ECTS</i>
Required and recommended prerequisites for joining the module	<i>Farm Machinery Subject</i>
Module objectives/intended learning outcomes	<i>ILO 6: Design simple equipment, components, or processes needed in agricultural engineering operations ILO 8: Demonstrate capacity in operating agricultural engineering related business either as producer or service provider</i>
Content	<i>This course discusses the management of agricultural tools and machinery for farming cultivation, ranging from land preparation to harvesting; determination of basic costs of operating tools and machinery; machine capacity and efficiency; feasibility and economic analysis; and machinery selection.</i>
Examination forms	<i>Writing exam</i>
Study and examination requirements	<i>At least 80% attendance for students to be able to take the exam</i>
Reading list	<ol style="list-style-type: none"> 1. <i>CIGR (The International Commission of Agricultural Engineering). 1999. CIGR Handbook of Agricultural Engineering Vol. III Plant Production</i> 2. <i>Engineering. The American Society of Agricultural Engineers.</i> 3. <i>2. Landers, A. 2000. Farm Machinery: Selection, Investment, and Management. Farming Press, Tonbridge.</i> 4. <i>3. Hunt, D. 1995. Farm Power and Machinery Management 9th edition. Iowa State University Press, Iowa.</i>