

2023 MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Engineering Drawing

Semester 1

Module designation	<i>Engineering Drawing</i>
Semester(s) in which the module is taught	<i>1</i>
Person responsible for the module	<i>Dr. Iqbal, STP., M.Si Dr. Ir. Daniel Useng, M.Eng.Sc Dr. Abdul Azis, STP., M.Si Samsuar, STP., M.Si</i>
Language	<i>Indonesia</i>
Relation to curriculum	<i>Compulsory</i>
Teaching methods	<i>lecture, Exercise.</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: 2 SKS = 3.4 ECTS = 91.8 hours > Lecture = 23.3 hours > Exercise = 28 hours > Sel study = 28 hours > Exam = 4 hours (MID term and final) > Exam preparation = 8.5 hours</i>
Credit points	<i>1 SKS = 1.7 ECTS</i>
Required and recommended prerequisites for joining the module	<i>Basic Mathematics</i>
Module objectives/intended learning outcomes	<i>ILO 5: Use techniques, skills, and modern tools necessary for agricultural engineering practices; (Skill 1) ILO 6: Design simple equipment, components, or processes needed in agricultural engineering operations; (Skill 2)</i>
Content	<i>This course provides one of the skills required in engineering practice. Students are expected to understand various types of technical drawings and be able to sketch details of agricultural machinery. This course teaches about drawing tools and materials, methods of pictorial and orthogonal drawing, projections and geometric constructions. The course also covers drawing standards, tolerance systems in materials, composition of drawings, and detailed drawings. This course also presents material about drawing techniques using software, which includes 2-dimensional and 3-dimensional drawings.</i>
Examination forms	<i>Writing</i>
Study and examination requirements	<i>Attendance above 80%</i>
Reading list	<i>1. G. Takeshi Sato dan N. Sugiarto Hartanto, 2005. Menggambar Mesin Menurut Standar ISO. Pradnya Paramita, Jakarta 2. Cilin H. Simmons and Dennis E. Maguire, 2004. Manual of Engineering Drawing. Elsevier Newnes. 3. David A. Madsen and David P. Madsen, 2012. Engineering Drawing and Design, Fifth Edition. Delmar, USA.</i>