HASANUDDIN UNIVERSITY

Agricultural Engineering
Bachelor Program

2023
MODULE
DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Farm Structure & Environment

Semester 6

Module designation	*Farm Structure & Environment*
Semester(s) in which the module is taught	*VI*
Person responsible for the module	*Dr. Ir. Sitti Nur Faridah, MP.* *Dr.rer.nat. Olly Sanny Hutabarat, STP.,M.Si.* *Dr. Ir. Abdul Waris, MT* *Samsuar, STP., M.Si*
Language	*Indonesia*
Relation to curriculum	*Compulsory*
Teaching methods	*lecture, Excercise.*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *2 SKS = 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	*1 SKS = 1.7 ECTS*
Required and recommended prerequisites for joining the module	*Engineering Properties of Materials*
Module objectives/intended learning outcomes	*ILO 5: Use techniques, skills, and modern tools necessary for agricultural engineering practices; (Skill 1)* *ILO 7: Manage and utilize agricultural resources effectively, efficiently, and sustainably; (Competence 1)* *ILO 9: Analyze the impact of engineering solutions to the environment and society using a multidisciplinary approach; (Competence 3)*
Content	*The course of Building and Agricultural Environmental Sciences studies the structure of buildings and the fundamentals of functional planning of agricultural buildings and the influencing environment. This course discusses agricultural buildings, including the planning of farm center buildings, the fundamentals of controlling indoor environmental conditions naturally and mechanically, and their application to crop and livestock production*
Examination forms	*Writing*
Study and examination requirements	*Attendance above 80%*
Reading list	*2. Whitakher, J. F. 1979. Agricultural Building and Structure* *3. Barre,H, J and Sammet, L,L., 1996. Frame Structures* *4. Esmay, L. Merle and Dixon, E. Jhon., 1986. Environmental Control for Agricultural Buildings*