HASANUDDIN UNIVERSITY

Agricultural Engineering
Bachelor Program

2023

MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Introduction to Climatology

Semester 3

Module designation	*Introduction to Climatology*
Semester(s) in which the module is taught	*III*
Person responsible for the module	• *Dr. Ir. Mahmud Achmad, MP* • *Dr. Ir. Daniel Useng, M.Eng.Sc* • *Dr. Suhardi, STP., MP* • *Samsuar, STP., M.Si*
Language	*Indonesia*
Relation to curriculum	*Compulsory*
Teaching methods	*lecture*
Workload (incl. contact hours, self-study hours)	*(Estimated) Total workload:* *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 recommended prerequisites for joining the module	*Basic Mathematics* *Fundamental Physics*
Module objectives/intended learning outcomes	*ILO 7 : Manage and utilize agricultural resources effectively, efficiently, and sustainably; (Competence 1)* *ILO 8 : Demonstrate capacity in operating agricultural engineering related business either as producer or service provider; (Competence 2)*
Content	*Student will be able to demonstrate global understanding of climate, its components and be able to classify climate. This course explain climate in global, Characteristics of climate. Explain component of climate including process, measurement related parameter for precipitation, evaporation, transpiration, Temperature of soil and atmosphere, Radiation and Atmospheric Moisture and Atmospheric Pressure. Climatic classification of a region Using Schmith-Fergusson, Koppen dan Oldeman Classification Methods.*
Examination forms	*Writing*
Study and examination requirements	*Attendance above 80%*
Reading list	• *Robert V. Rohli & Anthony J. Vega, 2018. Climatology 4th Edition. Jones & Bartlett Learning, USA*