



2023

MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023

Engineering Hydrology

Semester 4

Module designation	Engineering Hydrology
Semester(s) in which the module is taught	IV
Person responsible for the	Prof. Dr. Ir. Ahmad Munir, M.Eng.
module	Dr. Suhardi, STP., MP.
module	• Dr. Ir. Mahmud, MP.
	Samsuar, STP., MSi
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture
Workload (incl. contact hours,	2 SKS x 1.7 = 3.4 ECTS = 91.8 hours
self-study hours)	• Lecture = 23.3 hours
sen study nodrsy	• 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	Fluid Mechanics
prerequisites for joining the	
module	
Module objectives/intended	ILO 3: Apply knowledge of mathematics, sciences, and engineering principles
learning outcomes	in agricultural fields; (Knowledge 1)
	ILO 4: Use quantitative analysis, information technology and critical thinking in agricultural engineering profession; (Knowledge 2)
	ILO 6: Design simple equipment, components, or processes needed in
	agricultural engineering operations; (Skill 2)
Content	This course covers: (1) concept of Hydrological Cycle, (2) Data Processing of precipitation, interception, evaporation, surface and subsurface flow, infiltration and percolation, and groundwater, (3) Statistical hydrology and (4) Rainfall-runoff Modeling.
Examination forms	Writing
Study and examination requirements	Attendance above 80%
Reading list	Linsley Jr., RK., MA Kohler, JLH. Paulhus, 1982. Hydrology for Engineers. Third Edition. McGraw-Hill Inc., New York. Asdak, C., 2004. Hydrologi dan Pengelolaan Daerah Aliran Sungai. Gadjah
	Mada University Press, Yogyakarta.