

2023 MODULE DESCRIPTION

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PORSCHE EM DO ZIEMI OBIECANEJ

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BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

Engineering Hydrology Practicum

Semester 4	
Module designation	Engineering Hydrology Practicum
Semester(s) in which the	IV
module is taught	
Person responsible for the	• Samsuar, STP., M.Si
module	Husnul Mubarak, S.TP., M.Si
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Practices in Laboratory
Workload (incl. contact hours,	(Estimated) Total workload:
self-study hours)	1 SKS x 1.7 = 1.7 ECTS = 45.9 hours
	• Lecture = 11.6 hours
	• Excercise = 14 hours
	 Sel study = 14 hours
	 Exam = 2 hours (MID term and final)
	 Exam preparation = 4.3 hours
Credit points	1 SKS =1.7 ECTS
Required and recommended	Basic Physics
prerequisites for joining the	Fluid Mechanics
module	
Module objectives/intended	ILO 3 : apply knowledge of mathematics, sciences, and engineering principles
learning outcomes	in agricultural fields;
	ILO 4 : use quantitative analysis, information technology and critical thinking
	in agricultural engineering profession;
	ILO 6 : manage and utilize agricultural resources effectively, efficiently, and sustainably;
	<i>ILO 9 : analyze the impact of engineering solutions to the environment and society using a multidisciplinary approach;</i>
Content	The student will be able to demonstrate the understanding of processes and
	phenomena in hydrological cycles, and also have capability to analyze data in
	all component hydrology. 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	Attendance above 80%
requirements	
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.

Semester 4