



2023

MODULE DESCRIPTION

BACHELOR PROGRAM
AGRICULTURAL ENGINEERING
FACULTY OF AGRICULTURE
HASANUDDIN UNIVERSITY
2023



Water Resources Management

Elective

Module designation	Water Resources Management
Semester(s) in which the module is taught	Elective
Person responsible for the	Dr. Ir Sitti Nur Faridah, MP.
module	Dr. Suhardi, STP., MP.
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture
Workload (incl. contact	(Estimated) Total workload:
hours, self-study hours)	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	Enginering Hidrology
recommended	Fluid of Mechanics
prerequisites for joining	
the module	
Module objectives/intended learning outcomes	ILO 6: manage and utilize agricultural resources effectively, efficiently, and sustainably
Content	This lecture discusses the definition and scope of Water Resources
	Management activities; basic principles, principles; institutions and introduction of regulations, legislation related to Water Resources Management, water source supply systems, types and methods of water demand estimates (irrigation and non-irrigation), data requirements for Water Resources Management, determination of reservoir capacity, reservoir release regulation method, optimization of water allocation models, macro and micro scale flood control, environmental aspects in Water Resources Management.
Examination forms	Writing
Study and examination	Attendance above 80%
requirements	
Reading list	UU No. 7 th 2004 tentang Sumber Daya Air • Grigg, N.S., 1996. Water Resources Management: Principles, Regulation, and Cases. New York: McGraw Hill.