

2023 MODULE DESCRIPTION

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Uybór felietonów pols

IKC

PORSCHE'EM DO ZIEMI OBIECANEJ

BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

Fluid Mechanics Practicum

Semester 3

Module designation	Fluid Mechanics Practicum
Semester(s) in which the	
module is taught	
Person responsible for the	• Prof. Dr. Ir. Ahmad Munir, M.Eng
module	• Dr. Ir. Mahmud Achmad, MP
	• Dr. Ir. Sitti Nur Faridah, MP
	• Dr. Suhardi, STP., MP
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lab Works
Workload (incl. contact	(Estimated) Total workload:
hours, 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	
prerequisites for joining	Fluid Mechanics
the module	
Module	ILO 3: Apply knowledge of mathematics, sciences, and engineering principles in
objectives/intended	agricultural fields; (Knowledge 1)
learning outcomes	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	The student will be able to demonstrate the understanding of processes and
	phenomena in fluid statics and dynamics in both flows in pipe and open channel.
	This course covers concept and fluid characteristics, control volume (Bernoulli's
	Law) and energy balance in fluid, flow in pipe: energy and pressure of water in pipe
	using Moody, flow in open channel: uniform and non-uniform flow, hydraulic jump,
	gradually and rapid flow.
Examination forms	Writing and oral exam
Study and examination	Attendance above 80% and completed report
requirements	
Reading list	Gerhart, PM. & RJ. Gross, 1985. Fundamentals of Fluid Mechanics, Addison Wesley
	Pub. Co., California