

2023 MODULE DESCRIPTION

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DO ZIEMI 08IECANEJ

BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

Fundamental of Soil Science

Semester 3

Module designation	Fundamental of Soil Science
Semester(s) in which the module is	1
taught	
Person responsible for the module	Prof. Dr. Ir. Hazairin Zubair, M.S.
	Prof. Dr.Ir. Dorothea Agnes Rampisela, M.Sc.
	Dr. Ir. Muh. Jayadi, M.P
	Dr. Ir. Burhanuddin Rasyid, M.Sc
	Ir. Masyhur Syafiuddin, M.P.
	Dr. Rismaneswati, S.P., M.P.
	Dr. Asmita Ahmad, ST. M.Si.
	Dr. Sartika Laban, SP., MP.
	Nirmala Juita, SP.,M.Si
	Ahmad Fauzan Adzima, SP.,M.Sc
	Risky Nurhikmayani, S.Si.,M.Sc
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture, Lab Works
Workload (incl. contact hours, self-	(Estimated) Total workload:
study hours)	3 SKS x 1.7 = 5.1 ECTS = 137.7 hours
	> Lecture = 35 hours
	> Excercise = 42 hours
	> Sel study = 42 hours
	> Exam = 4 hours (MID term and final)
	> Exam preparation = 8.5 hours
Credit points	3 SKS : 5.1 ECTS
Required and recommended	
prerequisites for joining the	
module	
Module objectives/intended learning outcomes	ILO 3: Apply knowledge of mathematics, sciences, and engineering principles in agricultural fields; (Knowledge 1)
0	ILO 7: Manage and utilize agricultural resources effectively, efficiently,
	and sustainably; (Competence 1)
	<i>ILO 9: Analyze the impact of engineering solutions to the environment</i>
	and society using a multidisciplinary approach; (Competence 3)
Content	This course aims to provide an understanding of the process of soil
	formation and soil building blocks; the physical, chemical and biological
	properties of soil for the benefit of plant growth and production, the life
	of other organisms and for sustainable land use.
Examination forms	Write Exam
Study and examination	Attendence above 80% and Completion of all laboratory practicum
requirements	

Reading list	Brady, N. C. 1990. The Nature and Properties of Soils. MacMillan
	Publishing Company. New York.
	Foth, H.D. 1990. Fundamentals of Soil Science. 8th ed. John Wiley
	& Sons. New York.
	Weil, R.R. and Brady, N.C. 2017. The Nature and Properties of Soils.
	15th ed. Pearson. Boston.
	White, R.E. 2006. Principles and Practice of Soil Science. Fourth
	Edition. Blackwell Publishing. USA.