

2023 MODULE DESCRIPTION

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Wybór felietonów pols

DO ZIEMI OBIECANEJ

BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

Heat Transfer

Semester 3

Module designation	Heat Transfer
Semester(s) in which the module is	III
taught	
Person responsible for the module	Prof. Dr. Ir. Junaedi Muhidong, M.Sc.
	Prof. Dr. Ir. Salengke, M.Sc
	Dr.rer.nat. Olly Sanny Hutabarat, STP.,M.Si.
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	Lecture and in-depth discussion
Workload (incl. contact hours, self-study	Estimated) Total workload:
hours)	2 SKS = 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	1 SKS = 1.7 ECTS
Required and recommended	Engineering Properties of Materials
prerequisites for joining the module	
Module objectives/intended learning	ILO 3: Apply knowledge of mathematics, sciences, and engineering
outcomes	principles in agricultural fields; (Knowledge 1)
	ILO 4: Use quantitative analysis, information technology and critical
	thinking in agricultural engineering profession; (Knowledge 2)
	ILO 5: Use techniques, skills, and modern tools necessary for
	agricultural engineering practices; (Skill 1)
	ILO 7: Manage and utilise agricultural resources effectively,
	efficiently, and sustainably; (Competence 1)
Content	This course will provide student with knowledge on the
	modes of heat transfer and skills on solving heat related
	engineering problems. The topics covered in this course
	include modes of heat transfer, conduction in onedimension,
	convective heat transfer, natural and forced
	convective heat transfer, radiation heat transfer, and
	heat exchangers.
Examination forms	Writing
Study and examination requirements	Attendance above 80%
Reading list	1. Çengel, Y. A. 1998. Heat Transfer: A Practical Approach.
	McGraw Hill, Inc. Hightstown, N.J.
	2. Holman, J. P. 2010. Heat Transfer 10th ed. McGraw-Hill. New
	York