

2023 MODULE DESCRIPTION

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DO ZIEMI 081ECANES

BACHELOR PROGRAM AGRICULTURAL ENGINEERING FACULTY OF AGRICULTURE HASANUDDIN UNIVERSITY 2023

Engineering Economy

Semester 6

Module designation	Engineering Economics
Semester(s) in which the	VI
module is taught	
Person responsible for the	• Prof. Dr. Ir. Salengke, M.Sc.
module	• Prof. Dr. Ir. Mursalim
	• Dr. Diyah Yumeina, STP, M.Sc.
Language	Indonesia
Relation to curriculum	Compulsory
Teaching methods	lecture
Workload (incl. contact	(Estimated) Total workload:
hours, self-study hours)	$2 SKS \times 1.7 = 3.4 ECTS = 91.8 hours$
	 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	Basic Mathematics
recommended	Engineering Mathematics I
prerequisites for joining the	Engineering Mathematics I
module	Applied Statistics
Module	ILO 4: Use quantitative analysis, information technology and critical thinking in
objectives/intended	agricultural engineering profession; (Knowledge 2)
learning outcomes	ILO 7: Manage and utilise agricultural resources effectively, efficiently, and
	sustainably; (Competence 1)
	ILO 8: Demonstrate capacity in operating agricultural engineering related business
	either as producer or service provider; (Competence 2)
Content	Engineering Economy deals with methods for systematic evaluation of economic
content	feasibility of engineering projects or investment based on costs and revenue
	estimations. Topics and concepts that will be covered in this course include decision
	making, costs, benefits, and cash flow, interest and time value of money, uses and
	formulation of interest factors, present worth analysis, uniform annual cash flow
	analysis, benefit-cost ratio analysis, and internal rate of return. Other topics that
	will be covered include incremental analysis for multiple alternatives, breakeven
	point analysis, payback period analysis, depreciation costs), and replacement
	analysis.
Examination forms	Writing
Study and examination	Attendance above 80%
requirements	
Reading list	Salenake: Engineering Economy: Techniques for Project and Business
	• Salengke: Engineering Economy: Techniques for Project and Business Feasibility Analysis. ISBN: 978-602-8405-35-5.
	Donald G. Newman and Bruce Johnson, Engineering Economic Analysis, Engineering Processing, ISBN: 0, 010554-02-5
	Engineering Press, Inc., ISBN: 0- 910554-93-5.
	• Leland T. Blank and Anthony J. Tarquin, Engineering Economy. ISBN: 0-07-
	062982-X