

Subject Module Department of Agribusiness Faculty of Agriculture University of Islam Malang

Module Handbook

Title Module	Economic math
Module Level, if available	Undergraduate. Study Program of Agribusiness
CourseCode	MKW60702
Title, if available	-
Course (MK)	Economic math
Semester	1
Course Coordinator	Dr. DwiSusilowati, SP., MP
Teaching Team	Anugrah Rizki Pratama, SP., MP.
Instruction language	Indonesian Language/English
Linkage to Curriculum	Study Program: Agribusiness
U U	Specialization: Economic Agribusiness
	Type: Compulsory / Elective
Mathed and Duration	1 Lecture 100 minutes (meeting (14 meetings)
of Loarning	1. Lecture: 100 minutes / meeting (14 meetings) 2. Practicum: 170 minutes / meeting (8 meetings)
of Leaf ming	3 Structured assignments / individual and group
	assignments
Study LoadStudent	1. Lecture: 100 minutes / meeting (14 meetings)
	2. Practicum: 170 minutes / meeting (8 meetings)
	3. Structured assignments / quizzes / group presentations
	4. Attendance: 75% of total attendance
WeightCredit	3 Credits or 5.1 ECTS
Requirements to Pass the	• Attendance ≥75%
Course	• Final score of all components of learning evaluation ≥ 50
	Final Score Components:
	• 30% Mid-Semester Exam
	• 30% Final Examination
	• 15% Prakticum
	• 15% Structured Tasks (individual and group)
	• 10% Attendance
CoursePrerequisites	-
Learning outcomes	The expected learning outcomes are:
C	1. Able to respond to problems regarding entrepreneurship,
	agribusiness, and green food.(ILO 1)
	2. Able to analyze the rules and principles of
	agribusinesssciences, social sciences, economics, and
	agricultural techniqueus as the basic for innovative
	agribusiness disciplines.(ILO 2)
ContentLearning	After completing this course students can:
	1. Students are able to use mathematics as a tool for
	agribusiness economic analysis

applied in agribusiness economic cases ekonomi
3. Students are able to apply mathematical theories to various
relevant cases or problems
A Students are able to have skills that can be developed for
T. Suuchus ale able to have skills that call be developed lol
relevant scientific development.
The topics include:
1. Set
Definition of Set
Set Presentation
Universal Set and Empty Set
Set Operation
Mathematical Rules in Set Operations
2 Number System
Comparative Relationship between Numbers
Number Operation
Number Operation
Sign Operation
Fraction Operation
3. Powers, Roots and Logarithms
Rank
Root
Logarithm
4. Row
Count Series
geometric series
5 Function
Definition and Elements of Eurotion
Function types
Linear function description
Non-linear function depiction
6. Linear Relationship
Cut and slope straight line
Formation of Linear Equations
Relationship of two straight lines garis
Finding the Roots of a Linear Equation
7. Non-Linear Relationshin
Identify the quadratic equation
Circla
Empse
nyperbole
Parabola
8. Simple Functional Differential
Differentiation Rules
The Nature of Derivatives and Differentials
Derivative of Derivative
Relationship between Functions and their Derivatives
9 Differential Compound Functions Fungsi
Partial Differential
Derivative of Partial Derivative
Extrame values: Maximum and Minimum
Conditional Ontimination
Conditional Optimization
Functional Homogeneity
10. Integral
Indefinite integral
Indeterminate Integration Rules
Certain integral
Certain Integration Rules
11 Matrix

	Understanding Matrix and Vector
	Matrix Equality and Vector Equality
	Matrix and Vector Operations
	Typical forms of matrices
	Matrix Conversion
TootToomaandForma	Even Dequirements: Minimum 7E0/ attendence to attend the
restrermsanurorms	Exam Requirements: Minimum 75% attendance to attend the
	final exam
	Test Form:Essay
Learning Media	Projector and screen, Zoom application, e-book, WA Group,
	Learning Management System (LMS UNISMA)
Reference	Main Reference:
	1. Chiang A.C. 1984. Fundamental Methods Of Mathematical
	Economics Third Edition Mc Craw Hill Pools Inc. New York
	ELUTION AND ELUTION WILL GLAW - FULL DOOK THE INPW TOLK
	2 Dumairy 2004 Matematika Toranan Untuk Risnis Dan
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Elementi Edici Ka dua halaa DDEE Varraharta
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta Toumanoff, Peter and Nourzad, Farrokh, 1994, A
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta Toumanoff, Peter and Nourzad, Farrokh, 1994, A Mathematical Approachto Economic Analysis. West
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta Toumanoff, Peter and Nourzad, Farrokh, 1994, A Mathematical Approachto Economic Analysis. West Publishing Company.
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta Toumanoff, Peter and Nourzad, Farrokh, 1994, A Mathematical Approachto Economic Analysis. West Publishing Company. Johannes H., Handoko BS, 1994. Pengantar Matematika
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta Toumanoff, Peter and Nourzad, Farrokh, 1994, A Mathematical Approachto Economic Analysis. West Publishing Company. Johannes H., Handoko BS. 1994. Pengantar Matematika Untuk Ekonomi Edisi ke empat belas. LB2ES. Jakarta
	 Dumairy. 2004. Matematika Terapan Untuk Bisnis Dan Ekonomi. Edisi Ke dua belas. BPFE. Yogyakarta Toumanoff, Peter and Nourzad, Farrokh, 1994, A Mathematical Approachto Economic Analysis. West Publishing Company. Johannes H., Handoko BS. 1994. Pengantar Matematika Untuk Ekonomi.Edisi ke empat belas. LP3ES. Jakarta