

Applied Mathematics For Economics

Department : Applied Mathematics For Economics

Grade : 3rd Semester (Even Semester 2022/2023)

Credits : 3 (150 minutes / meeting, 16 meetings in 1 semester)

Instructor : Prof. Dr. Imamudin Yuliadi, S.E., M.Si (imamudin2006@yahoo.co.id)

Description :

In this course, students are able to estimate, describe, explain, decipher, predict, interpret, identify, apply, solve, operate, and analyze in economic case solving techniques using the application of mathematics.

The Course Features

Students will be able to:

- Understand the concepts and methodologies of quantitative and qualitative analysis in the context of the development of science and technology.
- Apply thinking critically, logically, systematically, creatively, innovatively in the context of the development of Science and Technology in accordance with the field of Economics.
- Able to process and analyze data with qualitative and quantitative approaches rationally, critically and systematically.

Reference :

- Dumairy. 2010. Applied Mathematics For Business And Economics. Twelfth Edition. BPFE. Yogyakarta
- John E Weber. Mathematical Analysis: Business and Economics. McGraw-Hill, New York
- Alpha Chiang & Kevin Wainwright. 2005. Fundamental Methods Of Mathematical Economics. Fourth Edition. Mc. Graw-Hill Book Inc. York
- Ian Jacques, Mathematics for Economics and Business, Addison-Wesley, New York/Tokyo/Singapore

Assessment :

Softskill		= 10%
Task/homework	(@Asg=5)	= 15%
Quiz	(@Quiz= 5 %)	= 15%
<u>Competency Test</u>	(@CE=15%)	= 60%
TOTAL		100%

Syllabus

Week	Content
1	Unlimited Optimization
2-5	Optimization with Constraints
6	Matrix
7	Linear Programming
8-16	Application of Mathematics Calculus