

Statistic

Department : Statistic

Grade : 2nd Semester (Even semester 2022/2023)

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

Instructor : Danes Quirira Octavio, M.Sc. (octadanes@gmail.com)

Description :

The Introductory Mathematics course discusses basic mathematical concepts and techniques that will later be used in the field of economics.

The Course Features

Students will be able to:

- Understand economic concepts and theories in depth and be able to formulate economic problems based on Technology, Information and Communication. Evaluate the use of information systems in organizations and businesses
- Apply thinking critically, logically, systematically, creatively, innovatively in the context of the development of Science and Technology in accordance with the field of Economics. Formulate an information system development proposal
- Able to process and analyze data with qualitative and quantitative approaches rationally, critically and systematically. Analyze ethical and social issues which arise from the use of information technology and systems.

References :

- Lind, Marchal, & Wathen. (2012). *Statistical techniques in business and economics*, 15th ed.

Assesment :

- Presence : 10%
- Quiz I : 15%
- Quiz II : 15%
- Home work : 10%
- **Mid Test : 25%**
- **Final Test : 25%**

Syllabus

| Week | Content |
|-------------|---|
| 1 | Concept of Data and its Presentational (Definition of data and collection process, Definition of population and sample) |
| 2-5 | Data and Frequency Distribution (Data presentation, Distribusi frekuensi) |
| 6 | Median Data (Average of single and grouped data, Median) |
| 7-11 | Central Tendency Measure (Mode, Proportion) |
| 12 | Location size (Quartile, decile, Presenter) |
| 13-15 | Dispersion size (Dispersion, Skewness, Kurtosis) |
| 16-18 | Index Numbers and Time Series (Uses and types of Index Numbers, Time series analysis and benefits) |