# Description of Course Unit

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| **Course unit title** | **Empirical Methods in Economics** |
| **Course unit code** | EI 21207 |
| **Type of course unit (compulsory, optional)** | Compulsory |
| **Level** | Bachelor of Economics (B.Ec) |
| **Year of study** | 2 |
| **Semester/trimester** | 4 |
| **Number of credits** | 3 |
| **Name of lecturer(s)** | Dr. Agus Tri Basuki, S.E., M.Si. (agustribasuki@yahoo.com) |
| **Learning outcomes of the course unit** | 1. Students are able to draw and tabulate data and calculate descriptive statistical measures as the initial foundation of inductive statistics.<br>2. Students are capable of understanding the concept of probability and applying examples of its use in economics.<br>3. Students are capable of understanding the concept of probability distribution and making estimations based on available information.<br>4. Students are capable of understanding, conducting hypothesis testing, and drawing conclusions in economic cases.<br>5. Students are capable of understanding the concept of ANOVA and applying examples of its use in solving economic cases.<br>6. Students are capable of understanding the concepts of correlation and regression in analyzing economic issues. |
| **Mode of delivery (face-to-face, distance learning)** | Face-to-face and blended learning |
| **Prerequisites and co-requisites** | All compulsory courses from semester 1-5 |
| **Course Description and Content** | This subject presents the concepts and definitions of decision making, the principles of decision making, particularly in relation to planning and policy making in conventional and Islamic economics. This subject focuses more on discussing the basic theory of decision-making character so that students can adjust themselves in the world |

of economy and business which must be careful, fast and precise. The method of 'decision making' is the right choice for observing developing issues and solving problems faced in carrying out economic activities, both conventional and Islamic. In particular, this course aims to provide insights to students on how to develop benefit-based Islamic financial products with the Maqasid sharia approach.

1. Descriptive statistics review
2. Probability
3. Discrete distributions: binomial & Poisson
4. Continuous distribution: normal
5. Sampling distribution
6. Inferential statistics: single sample
7. Single-sample hypothesis testing
8. Two-sample hypothesis testing
9. Analysis of Variance (ANOVA)
10. Linear correlation & regression

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| **Recommended or required reading and other learning resources/tools** | 1. Lind, Douglas A., Marchal, William G., Wathen, Samuel A. (2018). Statistical Techniques in Business and Economics (17th ed.). McGraw-Hill. 2. Basuki, A.T., Prawoto, N. (2016). Statistics for Economics and Business. Ombak Publisher. |
| **Planned learning activities and teaching methods** | Tutorial, case study, self-directed study, discovery learning, role play, simulation, focus group discussion, cooperative learning, |
| **Language of instruction** | Indonesian and English for international class |
| **Assessment methods and criteria** | Quiz, assignment, Evaluation Course Learning Outcome |

| GRADE | SCORE (%) | PREDICATE | Description | Conversion Value |
|-------|-----------|-----------|-------------|------------------|
| A | $80 \geq ..$ | Excellence | Achieve learning outcomes with excellence grade | 4 |
| AB | $75 \leq AB < 80$ | Very Good | Achieve learning outcomes with very good grade | 3,5 |
| B | $65 \leq B < 75$ | Good | Achieve learning outcomes with good grade | 3 |
| BC | $60 \leq BC < 65$ | Good Enough | Achieve learning outcomes with good enough grade | 2,5 |
| C | $50 \leq C < 60$ | Enough | Achieve learning outcomes with enough grade | 2 |
| D | $35 \leq D < 50$ | Less | Achieve learning outcomes with less grade | 1 |
| E | $.. < 35$ | Failed | Failure to achieve learning outcomes | 0 |