

Description of Course Unit
according to the ECTS User's Guide 2015

Course unit title	Statistics
Course unit code	BLG22-625
Type of course unit (compulsory, optional)	Compulsory
Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	First cycle Master
Year of study when the course unit is delivered (if applicable)	Year 2
Semester/trimester when the course unit is delivered	Semester 3
Number of ECTS credits allocated	2 credits, 2.98 ECTS
Name of lecturer(s)	Prof. Dr. Sunarsih, M. Si.
Learning outcomes of the course unit	Students are able to: read, interpret, and analyze data, such as: relational data, the influence of data either in groups or individuals, through regression analysis and other statistical tests.
Mode of delivery (face-to-face, distance learning)	Face-to-face Learning
Prerequisites and co-requisites (if applicable)	-
Course content	• SPSS/PASW to describe data. • Correlation Analysis. • One variable difference test. • Different test of two independent variables. • Different test of more than two variables. • Test the Effect of One Variable on Another Variable. • Test the Effect of Two Variables on other Variables. • Multiple Effect Test Variable against other Variables. • Test the Effect of a Variable on another Variable with a Logarithm.
Recommended or required reading and other learning resources/tools	• Abdi, H. (2003). <i>Factor Rotations in Factor Analyses. Encyclopedia for Research Methods for the Social Sciences</i>. Sage: Thousand Oaks, CA,792-795 • Cronk, B. C. (2018). <i>How to Use SPSS: A Step-By-Step Guide to Analysis and Interpretation</i>. New York and London: Routledge • Elliott, A. C., & Woodward, W. A. (2007). <i>Statistical Analysis Quick Reference Guidebook: With SPSS Examples</i>. Thousand Oaks, Calif: Sage Publications.

	- Enders, C. K. (2013). Dealing with Missing Data in Developmental Research. <i>Child Development Perspectives</i>, 7(1), 27-31. - Holte, R. C. (1993). Very Simple Classification Rules Perform Well on Most Commonly Used Datasets. <i>Machine Learning</i>, 11(1), 63-90. - Levy, P. S., & Lemeshow, S. (2013). <i>Sampling of Populations: Methods and Applications</i>, 4th Edition. Hoboken, New Jersey: Wiley & Sons. - Keselman, H. J. et al. (1998). Statistical Practices of Educational Researchers: An Analysis of Their ANOVA, MANOVA, and ANCOVA Analyses. <i>Review of Educational Research</i>, 68(3), 350-386. - Ruseffendi. HET (1998). <i>Basic Statistics, for Educational Research</i> Bandung: IKIP Bandung Press - Sudjana. (1992). <i>Regression and Correlation Analysis Techniques</i>. Bandung: Tarsito. - Peers, I. (2006). <i>Statistical Analysis for Education and Psychology Research: Tools for Research in Education and Psychology</i>. Routledge.		
Planned learning activities and teaching methods			
	Week	Topic	Language Teaching
	1	Describing data by using SPSS/PASW software	Discussion, Lecturing
	2	Describing data by using SPSS/PASW software	Discussion, Lecturing
	3	Relationship between variables of data	Discussion, Lecturing
	4	Relationship between variables of data	Discussion, Lecturing
	5	Different test analysis with one sample t-test	Discussion, Lecturing
	6	Different test analysis with independent sample t-test	Discussion, Lecturing
	7	Different test analysis with paired sample t-test	Discussion, Lecturing
	8	MID TERM TEST	Written Test

	9	Different test analysis with one way Anova sample t-test	Discussion, Lecturing
	10	Influence test analysis with simple regression analysis	Discussion, Lecturing
	11	Effect test analysis with multiple regression analysis with two independent variables	Discussion, Lecturing
	12	Effect test analysis with multiple regression analysis with two independent variables	Discussion, Lecturing
	13	Influence analysis with multiple regression analysis with many independent variables	Discussion, Lecturing
	14	Influence analysis with multiple regression analysis with many independent variables	Discussion, Lecturing
	15	Effect test analysis with linear regression analysis with logarithms	Discussion, Lecturing
	16	Final Test	Written Test
Language of instruction		English-Indonesian	
Assessment methods and criteria		• Case Study Method/ Assignment 50% • Mid Term Test 25% • Post Test/Project 25%	

