Description of Course Unit

Course unit title	Regression Methods
Course unit code	VS191401
Type of course unit (compulsory, optional)	Compulsory
Level of course unit (according to EQF: first cycle Bachelor, second cycle Master)	First cycle Bachelor
Year of study when the course unit is delivered (if applicable)	
Semester/trimester when the course unit is delivered	4
Number of ECTS credits allocated	6,4
Name of lecturer(s)	Sri Pingit Wulandari, Iis Dewi Ratih, Mukti Ratna Dewi
Learning outcomes of the course unit	Students are able to : - explain the definition, use and basic concepts of linear regression and linear correlation; - perform simple and multiple linear regression using the Ordinary Least Square (OLS) method; - check linear regression assumptions and handle its violations; - create dummy variables and perform linear regression modeling with dummy variables as independent variables; - create and analyze regression models with discrete responses; - determine the best model statistically, in accordance with valid procedures and criteria.
Mode of delivery (face-to-face, distance learning)	Face to face
Prerequisites and co-requisites (if applicable)	Introduction to Statistical Method
Course content	1. Introduction and basic concepts of regression and correlation 2. Simple linear regression 3. Multiple linear regression 4. Testing and handling violations of the assumptions of linear regression analysis 5. Dummy regression 6. Poisson regression 7. Model selection for linear regression model
Recommended or required reading and other learning resources/tools	1. Kutner, M.H. et al, “Applied Linear Regression Models”, McGraw -Hill, Singapore. 2004 2. Sembiring, R.K, Analisis Regresi, Publisher: ITB, Bandung. 1995 5. 3. Myers, R.H, “Classical and Modern Regression with Application”, PWSKENT Publishing Company, Boston. 1989
Planned learning activities and teaching methods	Problem Based Learning, Blended Learning
Language of instruction	Indonesian Language

Assessment methods and criteria	Assignment, Quiz, Practice, Midterm Exam and Final Exam.