Module designation	*Quantitative Methods for Business (AGB 212)*
Semester(s) in which the module is taught	*4rd semester*
Person responsible for the module	*Dr. Zakiah, S.P., M.Si.*
Language	*English*
Relation to curriculum	*Compulsory module*
Teaching methods	*lecture, study case*
Workload	▪ *100 minutes of lecture and discussion per week* ▪ *120 minutes of structured tasks per week* ▪ *190 minutes of independent activity per week* ▪ *100 minutes of laboratory work*
Credit points	*3 (lesson 2 and lab works 1)= 4.8 ECTS*
Required and recommended prerequisites for joining the module	*Statistic for Economy and Business*
Module objectives/intended learning outcomes	1. *Able to understand the important use of econometrics in an economic and business research.* 2. *Able to apply an appropriate econometric methods in economic and business research.* 3. *Able to evaluate an empirical economic articles*
Content	*This course aims to provide statistical and econometric analysis tools in explaining the relationship between economic variables. The learning process use the theoretical and empirical approach using applicable examples, as well as the use of statistical/econometric software. Topics include an overview of the use of econometrics, Ordinary Least Square (OLS) models, simulation basics, and simultaneous equations. This course focuses on OLS estimation which includes assumptions that must be met in the OLS approach, consequences on OLS estimation if these assumptions are not met, how to detect violations of OLS assumptions, and solutions if these assumptions are violated. Additionally, the fundamentals of simulation will be taught to the students so they can integrate computer exercises with ideas that are typically thought of as abstract. This course also use the lecturing and student-centre learning by case study and laboraty work methods.*
Exams and assessment formats	*Essay, case analysis, oral presentation*
Study and examination requirements	▪ *50% case analysis* ▪ *10% Participative Activity* ▪ *5% quiz* ▪ *5% coursework* ▪ *15% midterm examination* ▪ *25% final examination*

Reading list	1. *Waters, Donald. 2011. Quantitative Methods for Business. 5th ed. Pearson Education Ltd, Harlow.* 2. *Curwin, J. Slater, R. Eadson, D. 2013. Quantitative Methods for Business Decisions, 7th ed. Cengage Learning. Hampshire.* 3. *Studenmund, A.H. 2006. Using Econometrics: A Practical Guide. 5th ed. Pearson Education Ltd, Harlow.* 4. *Gujarati, D.V. Porter, D.C. 2010. Dasar-Dasar Ekonometrika. Edisi 5. Salemba Empat. Jakarta.* 5. *Metode Kuntitatif. Teori dan aplikasi untuk Bisnis dan Ekonomi. Mudrajad Kuncoro* 6. *Intrilligator, M.D. 1978. Econometrics model, Techniques and Aplication. Prentice Hall Inc.New Jersey* 7. *Koutsoyiannis, A. 1977. Theory of Econometrics: An Introductory Exposition of Econometric Methods. Harper and Row Publisher, London* 8. *Sumodiningrat, Gunawan. 1996. Ekonometrika Pengantar. BPFE, Yokyakarta.*