Syllabus				
Course code				
Course name	Econometrics			
Course version	1			
A. The location of the course in the study system				
Level of education	2			
Degree level	-			
A form of study	Erasmus Exchange			
Field of study	Management Engineering			
Profile of study	general academic			
Specialization	-			
Unit administrating course	Faculty of Management			
Unit implementing course	Faculty of Management			
Course coordinator	Rządkowski Grzegorz, PhD			
B. General characteristics of the course				
Block	General			
Group of courses	-			
Level of the course	-			
Course status	elective			
Course language	English			
Semester	-			
Academic year	2018/19			
Prerequisities	Basic knowledge in the field of mathematics (calculus, extrema of func- tions of several variables, linear algebra, matrices), descriptive statistics and mathematical statistics as well as knowledge of the Excel spread- sheet.			
The minimum number of students	from 25 students, up to the limit of seats in the room (exercise) no limits for students (lecture)			
C. Learning outcomes and teachin	g methods			
Aim of the course	The aim of the course is to discuss issues related to the building, estima- tion and verification of econometric models. Emphasis will be placed on the practical application of econometrics by using empirical data. The classes will use Excel spreadsheet and program GRETL.			
Assessment methods	 A. Lectures: 1. Formative assessment: attendance at the lecture, student activity 2. Summative assessment: evaluation of the results of the exam B. Exercises: 1. Formative assessment: assessment of the results of team work performed by students during project preparation 2. Summative assessment: evaluation of the results of team work during the presentation of the project E.Overall grade: Final grade: 40% exam, 30% project, 30% workshops 			
Learning outcomes	See Table 1			
	IL			

	lectures 20	
Form of classes and weekly dimen-	exercises 20	
sion (number of hours per semester)	laboratories 0	
	projects 0	
The course content	 A. Lecture, B.Exercise: 1. Econometrics as a scientific discipline and its place in the economy 2. Covariance, variance and correlation 3. Simple linear regression, least squares method 4. Classical linear regression model for multiple explanatory variables, F test and Student's t-tests 5. Spreadsheet, functions used in econometrics and statistical tool Regression 6. Program GRETL and its application to building of econometric models 7. Dummy variables 8. Model verification, testing of statistical hypotheses 9. Heteroscedasticity, White test 10. Non-linear models 11. Autoregressive models 12. Time series 	
	14. Final exam	
Learning outcomes	See Table 1	
Exam	E	
Literature	 Obligatory: 1. Dougherty, Ch., 2017. Introduction to Econometrics. Oxford: Oxford University Press. Supplementary: 1. New Cambridge statistical tables 2. Presentations (adf files) Excel files. CRETL files. 	
Course website	www.olaf.wz.pw.edu.pl	
	www.ordr.w2.pw.edu.pr	
D. The student workload		
Number of ECTS credits	4 ECTS	
Total hours of student work related to the learning outcomes achieve- ment (description):	4 EC1S: 20 h Lecture + 20h Exercise + 5h Participation in subject consultation +5h Studying literature + 5h Performing homework + 10h Preparing to the exam + 5h project preparations + 20h project self-research + 10h preparing to the presentation = 100h	
The number of ECTS credits for courses that require the direct participation of teachers	1,8 ECTS: 20 h Lecture + 20h Exercise + 5h Participation in subject consultation = 45h	
The number of ECTS credits that the student obtains during the prac- tical classes	3,6 ECTS: 20h Exercise + 5h Participation in subject consultation +5h Studying li- terature + 5h Performing homework + 10h Preparing to the exam + 5h project preparations + 20h project self-research + 10h preparing to the presentation = 80h	
E. Additional Information		
Remarks	-	
Date of last update	-	

Table 1

General academic profile					
Subject effects		Reference to the 2nd degree of PRK characteri- stics	Reference to the 1st degree of PRK cha- racteristics		
Knowledge					
Effect:	Student has advanced knowledge in the field of statistical research, analysis of: structure, interdependencies, dynamics; the purpose and methods of econometrics, model classification, stages of econometric modeling.	I.P7S_WG.o	P7U_W		
Effect code:	I2_W01				
Verification:	Solving tasks during workshops, Final exam				
Effect:					
Effect code:					
Verification:					
Abilities					
Effect:	Student can acquire statistical data, construct and verify econometric models and interpret results.				
Effect code:	I2_U06	I.P7S_UW.o	P7U_U		
Verification:	Preparation and evaluation of the project, Final exam				
Effect:]			
Effect code:					
Verification:					
Social Competence					
Effect:	Student has the ability to organize tasks according to their importance from the point of view of the goal				
Effect code:	ect code: I2_K02		P70_0		
Verification:	Preparation and evaluation of the project				
Effect:					
Effect code:					
Verification:]				