

Course title		Quantitative Research Methods						ECTS code		11.2.EE.PZ.871		
								ECTS credits		4		
Name of unit administrating study		OTHER		Field of study		Economics		Field of specialisation		NONE;		
Teaching staff		Mirosław Szreder, Professor										
Number of hours												
Lectures	12	Classes	0	Tutorials	0	Laboratory	0	Seminars	0	Language classes	0	
Forma aktywności							Year&Type of studies*		2 SDang,			
Hours with the participation of the academic teacher (including office hours, exams, others):							Semester:		3,			
Hours without the participation of the academic teacher (student's self-study, homeworks):							Type of course:		obligatory			
Total number of hours:							0		Language of instruction:		English	
Teaching form		in-class learning										
Teaching methods		Lectures including multimodal presentations,										
Prerequisites (required courses and introductory requirements)												
Required courses		Student should be familiar with basic concepts of descriptive statistics and statistical inference. Student powinien znać podstawowe zagadnienia statystyki opisowej i wnioskowania statystycznego.										
Introductory requirements		Student should have come across the following subjects: Descriptive Statistics, Basic Mathematics. Student powinien wcześniej zrealizować przedmioty: Statystyka opisowa, Podstawy matematyki.										
Assessment method, forms and criteria												
Assessment method		Course completion (graded)										
Assessment criteria												
Course objectives												
The objective is to provide knowledge about designing and performing quantitative research in economic problems, using methods of statistical inference, and interpreting results of quantitative surveys.												
Opanowanie wiedzy z zakresu projektowania i realizacji badań ilościowych w zagadnieniach ekonomicznych, posługiwania się metodami wnioskowania statystycznego i interpretacji wyników badań ilościowych.												
Learning outcomes												
Knowledge		E3_W03	Student is able to design and conduct quantitative analyses and surveys.									
		E3_W04	Student has advanced knowledge about nature of economic factors, processes, phenomenon, objects, structures, institutions, and about their conditionings, connections, causes and implications of their changes									
Verification of learning outcomes - Knowledge												
Outcomes		written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E3_W03		X										
E3_W04		X										
Skills		E3_U01	Student is able to observe, characterize, diagnose, evaluate and model in the planned and specialized way chosen aspects of economic and social life.									
		E3_U02	Student is able to use tested economical research procedures and to perform critical assessment of previous economic research results									
Verification of learning outcomes - Skills												

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E3_U01	X										
E3_U02	X										
Attitudes	E3_K04	Student builds an attitude of professional, responsible and ethical relation for the creation of new economical knowledge and control over reliability of the scientific environment.									

Verification of learning outcomes - Attitudes

Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E3_K04	X										

Course contents

Research design formulation: secondary data analysis, methods of collecting data, questionnaire design, sampling process, plan of data analysis. Official registers as sampling frames. Techniques of probability and non-probability sampling: simple random sampling, systematic sampling, stratification sampling, cluster sampling, purposive sampling, quota sampling. Errors affecting sample surveys and their measurement. Factors determining the sample size. Statistical inference on population mean and population proportion. Analysis of association (chi-square independence test).

Recommended reading lists

W.G. Zikmund, Business Research Methods, The Dryden Press, 5th ed., 1997;

N. Malhotra, Marketing Research. An Applied Orientation, Prentice Hall, 1996;

V. Barnett, Sample Survey. Principles and Methods, E. Arnold, 1991.

Contact

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* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies

** MSG - International Economic Relations