

COURSE DESCRIPTION CARD

Course name	Quantitative and qualitative methods in scientific research				
Course type	optional	Course code	SDPB0054	ECTS credits	2
Forms and number of hours	lectures: 10 h classes: 10 h	Scientific discipline	all		
Course objectives	To broaden and organize the knowledge of conducting scientific research based on properly prepared methodology. To learn advanced methods of data analysis used in quantitative and qualitative research. To develop skills and purposefulness of applying quantitative and qualitative methods in the research process. To learn computer assisted techniques for quantitative and qualitative research.				
Course content	<ol style="list-style-type: none"> 1. Review and select methods used to analyze quantitative and qualitative data, including: correlation analysis, regression analysis, chi-square independence test, factor analysis, cluster analysis, and correspondence analysis. 2. Analyze the dynamics of change in quantitative phenomena 3. Basic concepts used in econometrics, stages of econometric modelling. 4. Estimation and verification of econometric models. 5. Application of econometric models: verification of economic theories, forecasting. 				
Teaching methods	Review lecture enriched with discussion with the audience. Exercises carried out using the project method, completed with the presentation of completed projects				
Assessment method	Lecture: exam; exercises: evaluation of projects				
Symbol of learning outcome	Learning outcomes		Reference to the learning outcomes for the field of study for the 8th level of Polish Qualification Framework (PRK)	Methods of assessing the learning outcomes	
LO1	Student is able to organize the research process and use the collected research material appropriately		SD_W1, SD_W3, SD_U1, SD_U2, SD_K1	Exam, project	
LO2	Student appropriately selects and can apply selected quantitative and qualitative methods in scientific research		SD_W1, SD_W3, SD_U1, SD_U2	Exam, project	
LO3	Student appropriately interprets the results of scientific research obtained		SD_W1, SD_U1, SD_U2, SD_K1	Project	
LO4	Student is able to use research tools		SD_U1, SD_U8	Project	

Student workload (in hours)	
Lecture / classes	10 /10
Consultations	2
The unassisted student work	20
Implementation of project tasks and preparation for and participation in exams/tests	10
Total	52
ECTS credits	2

Basic references	<ol style="list-style-type: none"> 1. Babbie E., <i>Badania społeczne w praktyce</i>, PWN, Warszawa, 2004. 2. Creswell John W., <i>Projektowanie badań naukowych. Metody jakościowe, ilościowe i mieszane</i>, Wydawnictwo Uniwersytetu Jagiellońskiego, Kraków 2013. 3. Frankfort-Nachmias Ch., Nachmias D., <i>Metody badawcze w naukach społecznych</i>, przeł. E. Hornowska, Wydawnictwo Zys i S-ka, Poznań 2001. 4. Gruszczyński M., Podgórska M., <i>Ekonometria</i>, SGH, 2007.
Supplementary references	<ol style="list-style-type: none"> 5. Silverman D., <i>Prowadzenie badań jakościowych</i>, przeł. J. Ostrowska, Wydawnictwo Naukowe PWN, Warszawa 2013. 6. Szreder M., <i>Metody i techniki sondażowych badań opinii</i>, Polskie Wydawnictwo Ekonomiczne, Warszawa 2010. 7. Gruszczyński M., Kuszewski T., Podgórska M., <i>Ekonometria i badania operacyjne</i>, Wydawnictwo Naukowe PWN, Warszawa 2009
Author of the programme	Anna Olszewska, DSc, Marta Jarocka, PhD, Justyna Kozłowska PhD
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