



Subject card

Subject name and code	Essentials of Economic Data Analysis and Presentation, PG_00049648						
Field of study	Economics						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2020/2021		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study		
Mode of study	Full-time studies	Mode of delivery			e-learning		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Economic Sciences -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Świetlik				
	Teachers		dr inż. Krzysztof Świetlik				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	0.0	0.0	0.0	30
	E-learning hours included: 30.0						
Podstawy analizy i prezentacji danych ekonomicznych_KŚ - Moodle ID: 8185 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=8185							
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		4.0		16.0	50
Subject objectives	Main aim of the course is to present knowledge concerning different methods of presentation of economic data and practical ability to perform visualization and presentation with the use of empirical databases preparing for further students' independent work on the next courses.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K6_W06] knows the methods and tools of data acquisition appropriate for economic sciences, which allow to describe processes taking place in them and relations between them		Student knows different types of presentation methods of economic data.			[SW2] Assessment of knowledge contained in presentation	
	[K6_U14] can work independently and in a team		Student can present the economic data in the form of table or graph.			[SU4] Assessment of ability to use methods and tools	
[K6_U09] can use economic and financial information in practice and process it for the needs of economic and social activity		Student has the ability to illustrate economic (statistical, macroeconomic and financial) data with the use of different graphical tools. Student can interpret the information from the graphs and tables.			[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information		
Subject contents	<ol style="list-style-type: none">1. Design of research and data acquisition (2h)2. Sources and types of economic databases.(2h)3. Importing and editing data; organizing large sets of data (2h)4. Standardization of data (2h)5. Tables as a basic form of data presentation (2h)6. Graphical presentation of macroeconomic data (2h)7. Graphic techniques of statistical data presentation(2h)8. Graphic techniques of financial data presentation9. Mixed and non-standard methods of data presentation (2h)10. Presentation of dynamic data (2h)11. Presentation of spatial data (2h)12. Proper use of mathematical and statistical concepts in the context of data analysis; avoiding major mistakes in data presentation (2h)13. Distorting values - manipulating the data (2h)14. Distorting values - graphical manipulation (2h)15. Distorting categories and time – data and graphical manipulation (2h)						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written assessment with the use of computer	60.0%	90.0%
	Project	60.0%	10.0%
Recommended reading	Basic literature	<p>Główny Urząd Statystyczny (2014). <i>Graficzna prezentacja danych statystycznych</i>, Warszawa;</p> <p>Paulos, J.A. (1988). <i>Innumeracy: Mathematical Illiteracy and its Consequences</i>, Hill and Wang;</p> <p>Strange, N. (2007). <i>Smoke and Mirrors: How to bend facts and figures to your advantage</i>. London: A and C Black.</p>	
	Supplementary literature	Nison, S. (2001). <i>Japanese Candlestick Charting Techniques</i> , Second Edition. New York: Institute of Finance.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> On the basis of data provided in the excel file, make a pie chart to show the shares of the analyzed variable On the basis of data in the following table, interpret the economic phenomenon On the basis of data provided in the statistica file, create the suitable graphic presentation and interpret the economic phenomenon. 		
Work placement	Not applicable		