

Subject card

Subject name and code	Foundations of Statistics - auditorium classes, PG_00202067						
Field of study	Taxes and Tax Consultancy						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Bachelor's 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			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	3	ECTS credits			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Faculty of Law and Administration -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Olga Komorowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
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	15		2.0		8.0	25
Subject objectives	<p>1. Obtaining knowledge about the sources of data regarding economic, social and population phenomena and how they are created, knowledge necessary to conduct statistical research and data analysis.</p> <p>2. Developing the ability to select appropriate methods for analyzing economic and social phenomena and interpreting the obtained results.</p> <p>3. Learning about the possibilities of using statistical methods in economic and social life, in making administrative, social and business decisions.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[PiDPL3_WG01] has elementary knowledge of the basics of jurisprudence, public finance, and private law	The student knows the reporting obligations of various institutions to the Central Statistical Office. The student knows the flow of data between institutions, i.e., primary data sources, e.g., PUP reports. The student knows what primary and secondary data are and knows the methods of data collection. The student knows the national accounts system.	[SW4] test/exam - oral or written
	[PiDPL3_UK02] is able to communicate using specialist legal, financial and tax terminology, as well as participate in a debate on the problems of applying public finance law, finance and accounting - including presenting and evaluating different opinions and positions and discussing them	The student is familiar with concepts related to statistics (including economic statistics). The student understands situations in which certain statistical measures and methods cannot be applied (e.g., arithmetic mean, mode, Pearson's linear correlation coefficient). The student understands the challenges associated with data collection by institutions such as the Central Statistical Office (GUS).	[SU4] test/exam - oral or written
	[PiDPL3_UO05] is able to independently plan and implement the need to learn throughout life	After reading a scientific article using statistical analysis, the student is able to discuss the conclusions and research assumptions.	[SU5] implementation of a problem task
	[PiDPL3_UW01] is able to use the acquired theoretical knowledge in the field of public finance law and accounting and related scientific disciplines in order to formulate and solve complex and atypical problems (e.g. validation and interpretative problems related to the application of public finance law, tax analysis problems or balance sheet problems), including performing tasks in conditions not fully predictable by: appropriate selection of sources (including, in particular, legal acts, doctrinal literature and case law) and information from them, assessment, critical analysis and synthesis, selection and application of appropriate methods and tools (including advanced information and communication technologies, e.g. using learned methods of legal interpretation using electronic databases of case law and literature to solve basic problems related to the application of public finance law)	Knows basic methods of statistical data analysis and can interpret results. Knows the sources of statistical information. Can describe data found in a graph and statistical table.	[SU4] test/exam - oral or written

	Course outcome	Subject outcome	Method of verification
	<p>[PiDPL3_KK01] understands the complexity of problems occurring in the field of public finance law, finance and accounting and related disciplines and therefore is ready to critically assess the knowledge possessed in this area and the content received.</p> <p>understands the importance of knowledge in solving cognitive and practical problems and - in case of difficulties in solving the problem independently - seeking the opinions of experts dealing with public finance law, finance, accounting and related disciplines (especially scientists, experienced tax advisors, accountants, lawyers dealing with disciplines other than tax law and balance sheet law), and if necessary, also expert specialists in disciplines other than legal and economic sciences</p>	Understands the principles of conducting statistical research by institutions such as the Central Statistical Office and EUROSTAT.	[SK4] test/exam - oral or written
Subject contents	Basic concepts (statistics, population, sample, statistical characteristics). Data sources. Stages of statistical research. Data presentation. Analysis of population structure (measures of location, diversity, asymmetry). Interdependence analysis. The nature and types of time series. Measures of dynamics. Nominal and real values. Structure indices and intensity indices. Concentration coefficient.		
Prerequisites and co-requisites	Excel skills.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	60.0%
	research problem	0.0%	20.0%
	Active participation in classes	0.0%	20.0%
Recommended reading	Basic literature	<p>Makać W., Urbanek-Krzysztofiak D., Statistical description methods, Wyd. UG, Gdańsk</p> <p>red. Wycinka E., Szreder M., Applications of quantitative methods in insurance, Wyd. UG, (chapter: 1, 2, 4, 5)</p>	
	Supplementary literature	No literature	
	eResources addresses		
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. In what situation is it not recommended to calculate the average level of a trait? 2. What variable is a student's study time (in hours?) 3. What correlation coefficient should be used to check whether there is a correlation between gender and the choice of field of study? 		
Work placement	Not applicable		

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