

Subject card

Subject name and code	Distribuction of income and wealth, PG_00050009							
Field of study	Economic Analytics							
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Part-time studies		Mode of delivery			at the university		
Year of study	2		Language of instruction		Polish Polish			
Semester of study	3		ECTS credits		3.0			
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Katedra Statystyki i Ekonometrii -> Faculty of Management and Economics							
Name and surname	Subject supervisor		prof. dr hab. Stanisław Kot					
of lecturer (lecturers)	Teachers		prof. dr hab. Stanisław Kot					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct Seminar		SUM
	Number of study hours	8.0	0.0	16.0	0.0		0.0	24
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes include plan		n didactic Participation in consultation hours		Self-study S		SUM	
	Number of study hours	24			6.0			75
Subject objectives	The course aims to acquaint students with the methods of analysing income distributions and their particular aspects, such as inequality, poverty and welfare. The most important theoretical forms of the distributions and the methods of estimating their parameters are presented. A project is the base of receiving a credit for the course. Minimum two-person and maximum four-person teams elaborate the project.							
Learning outcomes	Course outcome		Subject outcome		Method of verification			
	[K7_U08] has the ability to implement analytical methods to independently propose solutions to economic problems and verify their effectiveness		analysing income distributions.		[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject			
	[K7_W10] has an in-depth knowledge of quantitative methods to describe and analyse socio-economic processes using information technology		methods of analysing income			[SW3] Assessment of knowledge contained in written work and projects		

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Subject contents	Gini index). The decomposition of inequalit 1. Normative aspects of economi 2. The axioms of inequality meas 3. The constant inequality aversic 4. The Atkinson inequality index 5. The abbreviated functions of 5. Inequality and welfare 1. The measurement of poverty 6. The poverty line 7. The FGT poverty indices 7. The problem of decomposition 1. The sources of statistical incor 7. Household budget surveys 7. Equivalence scales 7. Theoretical income distribution 7. The Pareto distribution 7. The lognormal distribution 7. The generalised Beta distribution 7. The Singh-Maddala distribution 7. The Singh-Maddala distribution 7. The Fisk distribution 7. The Fisk distribution 7. The maximum likelihood method 7. The goodness-of-fit tests 7. The measurement of inequality 7.	conomic inequality index, the Pietra index, the generalise ty indices. c inequality sures on utility function ocial welfare of poverty measures me data us utions genesis ion of the second kind in cal income distributions od y aversion lity and how much effectiveness? mequality aversion icome distributions comparability	ed entropy index, the generalised	
Prerequisites and co-requisites				
Assessment methods	Cubicat pagain a sait sait	Decains the state	Dercenters of the first words	
and criteria	Subject passing criteria Project	Passing threshold 60.0%	Percentage of the final grade 100.0%	
Recommended reading	Basic literature Supplementary literature	Kleiber, C., and S. Kotz. 2003. Statistical Size Distributions in Economics and Actuarial Sciences. New Jersey: John Wiley & Sons, Inc. Kot, S.M., Ostasiewicz, K. (2019) Global and Regional Economic Inequality: Methods and evidence. Wroclaw, Publ. House of Wroclaw University of Economics. Lambert, P.J. (2001). The distribution and redistribution of income: a mathematical analysis. Manchester: Manchester University Press. Jenkins, S.P. (2007). gb2fit: Stata module to fit Generalized Beta of the Second Kind distribution by maximum likelihood. Statistical Software Components Archive, S456823.		
		Kot S.M. (2023) Nonstandard Equit Applications for European Union Co University of Technology Publisher	ountries. Gdansk, Gdańsk	

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	eResources addresses	Adresy na platformie eNauczanie: Rozkłady dochodów i dobrobytu (niestacjonarne) - Nowy - Nowy - Moodle ID: 23897 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23897
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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