



Subject card

Subject name and code	Modeling the labor market, PG_00070247						
Field of study	Modelowanie rynku pracy						
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026	
Education level	second-cycle studies		Subject group			Optional subject group 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			3.0	
Learning profile	general academic profile		Assessment form			assessment	
Conducting unit	Department of Statistics and Econometrics -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dagmara Nikulin				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	0.0	0.0	0.0	45
	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	45		4.0		26.0	75
Subject objectives	Preparing students to independently model labour market phenomena, based on knowledge of data analysis and labour economics, and fostering attitudes of responsible and transparent presentation of results in the context of socio-economic diversity.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[K7_W06] identifies reliable sources of information relevant to the analyzed issues		identifies reliable sources of information relevant to the analyzed issues			[SW3] Ocena wiedzy zawartej w opracowaniu tekstowym i projektowym [SW2] Ocena wiedzy zawartej w prezentacji [SW1] Ocena wiedzy faktograficznej	
	[K7_U04] prepares and presents convincing, professional presentations of the results of its activities, with their in-depth interpretation		is able to professionally present labour market analysis results, using data visualisation techniques and structured argumentation to formulate in-depth, audience-oriented conclusions			[SU1] Ocena realizacji zadania [SU2] Ocena umiejętności analizy informacji [SU4] Ocena umiejętności korzystania z metod i narzędzi [SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania	

Subject contents	Course content – lecture Introduction to modern labor market analysis Gender pay gap Labor market and new technology (robotization, artificial intelligence) Working conditions: holistic approach Self-employment in Europe		
	Course content – exercises Introduction to labour market analysis using microdata Empirical analyses of the labour market (decomposition of the wage gap, modelling the impact of technology on key labour market components, empirical analysis of working conditions in Europe, quantification of self-employment in Europe and its determinants)		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Analytical project (presentation)	60.0%	50.0%
	Analytical project (report)	60.0%	50.0%
Recommended reading	Basic literature	Borjas, G. J., & Van Ours, J. C. (2010). Labor economics. Boston: McGraw-Hill/Irwin.	
	Supplementary literature	Matysiak, A., & Cukrowska-Torzewska, E. (2021). Gender and labour market outcomes. In Research Handbook on the Sociology of the Family (pp. 329-341). Edward Elgar Publishing. Antón, J. I., Klenert, D., Fernández-Macías, E., Urzi Brancati, M. C., & Alaveras, G. (2022). The labour market impact of robotisation in Europe. European Journal of Industrial Relations, 28(3), 317-339. Eurofound (2022), Working conditions in the time of COVID-19: Implications for the future, European Working Conditions Telephone Survey 2021 series, Publications Office of the European Union, Luxembourg.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Preparation of an econometric analysis explaining the development of various aspects of working conditions in Europe, the development of the wage gap, factors influencing the prevalence of self-employment		
Practical activites within the subject	Not applicable		

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