GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	THEORIES OF ECONOMIC GROWTH AND CONVERGENCE, PG_00068659
Field of study	Economic Analytics

Date of commencement of studies	October 2025	**Academic year of realisation of subject**	2025/2026
Education level	second-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	Part-time studies	**Mode of delivery**	at the university
Year of study	1	**Language of instruction**	Polish
Semester of study	2	**ECTS credits**	3.0
Learning profile	general academic profile	**Assessment form**	assessment

Conducting unit	Department Of Economic -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej

Name and surname of lecturer (lecturers)	Subject supervisor	
	Teachers	

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	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 didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
	Number of study hours	24	4.0	47.0	75

Subject objectives	Applies the most important models of the growth and convergence theory as well as computational methods used in empirical verification of these models

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U04] is able to prepare and convincingly present the results of specialized analyses, providing in-depth interpretation during debates and meetings with various audiences.	prepares and presents the results of analyzes in a convincing manner, along with their in-depth interpretation	[SU3] Assessment of ability to use knowledge gained from the subject
	[K7_W01] "demonstrates in-depth knowledge and understanding of economic problems, and selects methods for resolving them while taking into account the complex interrelationships among the phenomena being analyzed. "	identifies phenomena related to the theory of growth and convergence based on known theories and possible analytical methods	[SW1] Assessment of factual knowledge

Subject contents	1. Current Differential Levels of Production in the World and Historical Context (Since the Industrial Revolution)2. Methods of Measuring GDP and Comparing the Level of Production in Different Countries (Purchasing Power Participation)3. Factors of Production, Their Growth, and the Production Function4. The Solow Growth Model5. The Solow Model with Technical Progress6. The Endurance Growth Path7. Convergence of Economies to a Steady State. Conditional and Unconditional Convergence

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	60.0%	100.0%
Recommended reading	Basic literature	D. Romer, Makroekonomia dla zaawansowanych, PWN 2000	
	Supplementary literature	R.E. Lucas Jr., Wykłady z teorii wzrostu gospodarczego, C.H.Beck, 2010 D. Acemoglu, Introduction to Modern Economic Growth, Princeton University Press, 2009	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	State the properties of the Cobb-Douglas production function Explain the Solow diagram Define the differences between absolute and conditional convergence Get data on production in economies and on growth factors. On their basis, conduct a convergence analysis of a group of economies Simulate a growth trajectory with random shocks in production		
Work placement	Not applicable		

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