

GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ECONOMIC GROWTH AND CONVERGENCE THEORIES, PG_00066383								
Field of study	Economic Analytics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
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 (on-line)		Mode of delivery			e-learning			
Year of study	1		Language of instruction			Polish			
Semester of study	2		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Economic -> Faculty of Management and Economics								
Name and surname	Subject supervisor		dr Aniela Mikulska						
of lecturer (lecturers)	Teachers		Paweł Kliber						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	8.0	0.0	16.0	0.0		0.0	24	
	E-learning hours included: 24.0								
Learning activity and number of study hours	Learning activity	Participation in classes includ plan	n didactic ed in study	Participation in consultation hours		Self-study		SUM	
	Number of study hours	Number of study 24		3.0		48.0		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] Prepares and delivers convincing presentations of the results of specialized analyses, providing in-depth interpretations during debates and meetings with diverse 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] Understands economic issues and selects methods to explain them, considering mutual interactions and utilizing in-depth general and specialized knowledge related to the field of economic analytics		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	Subject passing criteria		Passing threshold			Percentage of the final grade			
and criteria	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: Teorie wzrostu gospodarczego i konwergencji - nst i nst online lato 2024/25 - Moodle ID: 42808 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=42808				
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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