GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ECONOMIC GROWTH AND CONVERGENCE THEORIES, PG_00066326
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	Full-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	exam

Conducting unit	Department of Economic -> Faculty of Management and Economics

Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Joanna Wolszczak-Derlacz
	Teachers	dr hab. Joanna Wolszczak-Derlacz

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	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	3.0	27.0	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	• Stylized facts about economic growth • Production function and its properties • Solow growth model • Convergence in the Solow model • Endogenous growth models • The role of human capital • The role of technology • Openness and growth • Real and nominal convergence
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test on computational methods	60.0%	50.0%
	Exam	60.0%	50.0%

Recommended reading	Basic literature	• Jones Ch.I., Vollrath D. (2024). Introduction to Economic Growth, 4th ed. WWNorton. • Marzec B. (2022) Wzrost gospodarczy w teorii i praktyce, PWN • Malinowski G. (2016) Nierówności i wzrost gospodarczy, PWN • Weil D. (2014). Economic Growth . Routledge. • Jones, C. I. (2016). The facts of economic growth. In Handbook of macroeconomics (Vol. 2, pp. 3-69). Elsevier. • D. Romer, Makroekonomia dla zaawansowanych, PWN 2000 • Raporty: World Bank, UNCTAD
	Supplementary literature	• Barro, R. J. (2012). Convergence and modernization revisited (No. w18295). National Bureau of Economic Research • Dobrinsky, R., & Havlik, P. (2014). Economic convergence and structural change: The role of transition and EU accession. WIIW Research Report 395 • Mankiw, Romer, Weil (1992) A Contribution to the Emirics of Economic Growth, The Quarterly Journal of Economics, vol 107 (2): 407-437 • Próchniak, M. (2011), Determinants of Economic Growth in Central and Eastern Europe: the Global Crisis Perspective, Post-Communist Economies, Vol. 2 3, No. 4, pp. 449-468. • Rapacki R. & Próchniak M. (2009) Real beta and sigma convergence in 27 transition countries, 19902005, Post-Communist Economies, 21:3, 307-326 • Sala-i-Martin X. (1997) I Just Ran Two Million Regressions, American Economic Review, Vol. 87, No. 2, pp. 178-183. • Wolszczak-Derlacz, J. (2008). Price convergence in the EUan aggregate and disaggregate approach. International Economics and Economic Policy, 5(1-2), 25-47
	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 Download data on production in economies and on growth factors. On their basis, conduct a convergence analysis of a group of economies	
Work placement	Not applicable	

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