

Subject card

Subject name and code	THEORIES OF ECONOMIC GROWTH AND CONVERGENCE, PG_00067637							
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	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			assessment		
Conducting unit	Department Of Economic -> Faculty Of Management And Economics -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor							
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	:t	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 classes includ plan Number of study hours Participation in classes includ plan 45			Participation in consultation hours		Self-study		SUM
				5.0		25.0		75
Subject objectives	Explains the most important models of economic growth and convergence as well as analytical methods used in their empirical verification.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[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.		and convergence phenomena and selects analytical methods, taking into account their interrelations.			[SW1] Assessment of factual knowledge [SU5] Assessment of ability to present the results of task		
	[K7_U04] is able to place convincingly present specialized analyses depth interpretation debates and meeting various audiences.							

Data wygenerowania: 03.05.2025 15:52 Strona 1 z 3

Lectures:							
 Introduction. Stylised facts about economic growth. How to measure growth and convergence. Types of convergence. Polarisation of development in the world History of economic growth and convergence process - part I History of economic growth and convergence process - part II Models of economic growth - introduction Production function and its properties. Solow growth model - part I (C-D production function, Solow diagram) Solow growth model - part III (growth accounting, Solow decomposition) Solow growth model - part III (extensions) Growth models - extensions (model MRW, AK) Endogenous growth models - human capital, technology, public spending, trade, institutions. Empirical studies on real convergence - part I Empirical studies on real convergence - part II. Test Computer labs: practical analysis of topics discussed during the lectures, the use of real statistical data. Introduction - key data sources and growth facts. Databases - part I Databases - part II Analytical dataset construction Analysis of growth trends and polarisation of development around the world. Alternative measures of growth. Mathematical and statistical measures of convergence. 							
9. Solow model analysis - part II 10. Real convergence - empirical analysis part I 11. Real convergence - empirical analysis part II							
Knowledge of macroeconomics and basic statistics/econometrics. Basic excel knowledge.							
Subject passing criteria	Passing threshold	Percentage of the final grade					
test on computational methods		50.0%					
	60.0%	50.0%					
	Weil D. (2014). Economic Growth . Routledge. D. Acemoglu, Introduction to Modern Economic Growth, Princeton						
Supplementary literature							
,	World Development Reports , World Bank https://www.worldbank.org/en/publication/wdr/wdr-archive						
	UNCTAD Trade and Development Reports https://unctad.org/publications-search?f%5B0%5D=product%3A394						
eResources addresses	Adresy na platformie eNauczanie:						
 Explain how the Cobb-Douglas production function can be used to analyze the economic growth process. Define the differences between absolute and conditional convergence, providing real examples of these processes. Obtain macroeconomic data on output and economic growth factors. Conduct an empirical panel-data analysis of economic beta convergence for a selected group of countries. 							
	1. Introduction. Stylised facts about 2. How to measure growth and co 3. Polarisation of development in 14. History of economic growth and 5. History of economic growth and 6. Models of economic growth - in 7. Production function and its properation of the production function and its properation of the production function and its properation of the production	1. Introduction. Stylised facts about economic growth. 2. How to measure growth and convergence. Types of convergence. 3. Polarisation of development in the world 4. History of economic growth and convergence process - part I 5. History of economic growth and convergence process - part II 6. Models of economic growth and convergence process - part II 7. Production function and its properties. 8. Solow growth model - part II (growth accounting, Solow decomposi 10. Solow growth model - part II (growth accounting, Solow decomposi 10. Solow growth model - part III (growth accounting, Solow decomposi 11. Growth models - extensions (model MRW, AK) 12. Endogenous growth models - human capital, technology, public sp 13. Empirical studies on real convergence - part II 14. Empirical studies on real convergence - part II 15. Test 16. Computer labs: practical analysis of topics discussed during the lectures 17. Introduction - key data sources and growth facts. 18. Databases - part II 19. Databases - part II 19. Analytical dataset construction 19. Analytical dataset construction 19. Analysis of growth trends and polarisation of development around the analysis of the provided analysis - part II 19. Solow model analysis - part II 10. Real convergence - empirical analysis part II 11. Real convergence - empirical analysis part II 12. Growth models - empirical evidence 13. Londogeneous factors of growth - empirical tests 14. Nominal convergence analysis. 15. Test 16. Test 17. Knowledge of macroeconomics and basic statistics/econometrics. Basic 18. Subject passing criteria Passing threshold lest on computational methods 60.0% 19. Exam 60.0% 19. Decomply introduction to Model University Press, 2009 19. Jones, C. I. (2016). The facts of economic growth - en/publication/wdr/wdr-archive 19. Vorlad Development Reports , Worlen/publication/wdr/wdr-archive 19. Address and Development Publications-search?P%5B0%5D=pi 19. Process en defenses between absolute and conditional convergen processes. 10. Obtain macroeconomic data on output and e					

Data wygenerowania: 03.05.2025 15:52 Strona 2 z 3

Work placement	Not applicable

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 03.05.2025 15:52 Strona 3 z 3