



Subject card

Subject name and code	ECONOMIC GROWTH AND CONVERGENCE THEORIES, PG_00060800						
Field of study	Economic Analytics						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2023/2024		
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		English		
Semester of study	2		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Katedra Ekonomii -> Faculty of Management and Economics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Aleksandra Parteka				
	Teachers		dr hab. inż. Aleksandra Parteka				
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		6.0		24.0	75
Subject objectives	Explains the most important theoretical models of economic growth and convergence as well as computational (analytical) methods used in their empirical verification.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_W01] identifies in-depth the phenomena related to the field of study and the theories describing them and possible analytical methods		identifies phenomena related to the theory of growth and convergence based on known theories and possible analytical methods		[SW1] Assessment of factual knowledge		
	[K7_U04] prepares and presents convincing, professional presentations of analysis results, with their in-depth interpretation		prepares and presents the results of analyzes in a convincing manner, along with their in-depth interpretation		[SU5] Assessment of ability to present the results of task		

Subject contents	<p>Lectures:</p> <ol style="list-style-type: none">1. Introduction. Stylised facts about economic growth.2. How to measure growth and convergence. Types of convergence.3. Polarisation of development in the world4. History of economic growth and convergence process - part I5. History of economic growth and convergence process - part II6. Models of economic growth - introduction7. Production function and its properties.8. Solow growth model - part I (C-D production function, Solow diagram)9. Solow growth model - part II (growth accounting, Solow decomposition)10. Solow growth model - part III (extensions)11. Growth models - extensions (model MRW, AK)12. Endogenous growth models - human capital, technology, public spending, trade, institutions.13. Empirical studies on real convergence - part I14. Empirical studies on real convergence - part II.15. Test <p>Computer labs: practical analysis of topics discussed during the lectures, the use of real statistical data.</p> <ol style="list-style-type: none">1. Introduction - key data sources and growth facts.2. Databases - part I3. Databases - part II4. Analytical dataset construction5. Analysis of growth trends and polarisation of development around the world.6. Alternative measures of growth.7. Mathematical and statistical measures of convergence.8. Solow model analysis - part I9. Solow model analysis - part II10. Real convergence - empirical analysis part I11. Real convergence - empirical analysis part II12. Growth models - empirical evidence13. Endogeneous factors of growth - empirical tests14. Nominal convergence analysis.15. Test		
Prerequisites and co-requisites	Knowledge of macroeconomics and basic statistics/econometrics.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	60.0%	50.0%
	test on computational methods	60.0%	50.0%
Recommended reading	Basic literature	Charles I Jones , Dietrich Vollrath (2024). Introduction to Economic Growth, 4th ed. WWNorton.Weil D. (2014). Economic Growth . Routledge. D. Acemoglu, Introduction to Modern Economic Growth, Princeton University Press, 2009Jones, C. I. (2016). The facts of economic growth. In Handbook of macroeconomics (Vol. 2, pp. 3-69). Elsevier.	
	Supplementary literature	R.E. Lucas Jr., Wykłady z teorii wzrostu gospodarczego, C.H.Beck, 2010	
	eResources addresses	Adresy na platformie eNauczanie: ECONOMIC GROWTH AND CONVERGENCE THEORIES _AP - Moodle ID: 36305 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36305	
Example issues/ example questions/ tasks being completed	Describe the properties of the Cobb-Douglas production function. Explain the Solow diagram. Define the differences between absolute and conditional convergence. Get the data on output and growth factors. Conduct an empirical convergence analysis of a selected group of economies.		
Work placement	Not applicable		

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