GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ECONOMIC GROWTH, PG_00061124
Field of study	Management

Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Optional subject group 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	2	Language of instruction	English
Semester of study	3	ECTS credits	4.0
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. 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	30.0	0.0	15.0	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	49.0	100

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_W02] explains the meaning and interdependence of the key components describing economic processes, using in-depth knowledge consistent with the main trends in the development of scientific disciplines related to the field of study	identifies phenomena related to the theory of growth and convergence based on known theories and possible analytical methods	[SW1] Assessment of factual knowledge
	[K7_U02] presents logical and solid arguments about the obtained results, by analyzing and synthesizing information in various business contexts, approaching their interpretation critically	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	LECTURE How to measure economic growth and convergence? Sigma and beta convergence Polarization of development in the world and in Europe History of economic growth and real convergence processes Models of economic growth introduction Solow growth model (Cobb-Douglas production function, Solow diagram, Solow decomposition) Extensions of growth models: Mankiw, Romer, Weil (MRW) Model, AK Model, Learning by doing, Endogenous Growth Factors: Human Capital (Lucas Model), Technology, Government Sector (Barro Model), Role of Institutions and Social Capital International trade Empirical research on convergence Price convergence - case study LABORATORY Practical analyzes of topics covered in lectures using real source data Introduction to databases Development measures Mathematical and statistical measures of convergence Analysis of real convergence processes Growth models The role of technological progress, human capital, institutions, trade, geographical factors, etc. in real convergence processes
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	60.0%	50.0%
	Computer test during the semester	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 Aghion P., Howitt P. (2009) The Economics of Growth, MIT Press Wolszczak-Derlacz J. Convergence or divergence in the European Union (2007) in:Selected economic problems (ed.) Gawrycka M., Technical University of Gdańsk
	Supplementary literature	Acemoglu D. (2009) Introduction to Modern Economic Growth, Princeton University Press Barro R. (1990), Government Spending in a Simple Model of Endogenous Growth. Journal of Political Economy vol.98, no.5, 103-126 Barro R.J., Xavier Sala-i-Martin (2003) Economic Growth: 2nd Edition, MIT Press Romer P. (1990) Endogenous Technological Change, Journal of Polictical Economy vol 98 no 5: s. 71-102
	eResources addresses	Adresy na platformie eNauczanie: Economic growth_winter_2024_2025 - Moodle ID: 39975 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=39975

Example issues/ example questions/ tasks being completed	What are endogenous growth factors? Explain the Solow diagram Define the differences between absolute and conditional convergence Using statistical data and an Excel spreadsheet, conduct an empirical analysis regarding the determinants of economic growth and/or conditional convergence
Work placement	Not applicable

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