GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	ECONOMIC GROWTH AND CONVERGENCE THEORIES, PG_00060698		
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	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 of lecturer (lecturers)	Subject supervisor	Paweł Kliber	
	Teachers	Paweł Kliber	

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: 45.0

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

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 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	[SU3] Assessment of ability to use knowledge gained from the subject
[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

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
Growth models with random disturbances

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Project	0.0%	40.0%
Exam	60.0%	40.0%
test on computational methods	60.0%	20.0%

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 - stacjonarne, 2023/24 lato - Moodle ID: 37507 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37507
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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