



## COURSE UNIT (MODULE) DESCRIPTION

Course unit (module) title	Code
Innovation and Technology Economics	

Academic staff	Core academic unit(s)
<b>Coordinating:</b> Assoc. prof. dr. Victoria Cohen <b>Other(s):</b>	Faculty of Economics and Business Administration

Study cycle	Type of the course unit
Second	Compulsory

Mode of delivery	Semester or period when it is delivered	Language of execution
Mixed (auditory and remote)	Fall semester	English

Requisites	
<b>Prerequisites:</b>	<b>Co-requisites (if relevant):</b>

Number of ECTS credits allocated	Student's workload (total)	Contact hours	Individual work
5	130	32	98

Purpose of the course unit		
The purpose of this subject is to acquaint students with the importance of innovations in the structure of markets, the principles of creating and shaping innovations, and to understand the importance of innovation in the modern economy in response to changing trends in the global market; in various aspects of innovation, from basic concepts and measurements to their development in the course of history and consequences for the future; delving into the links between innovation and other economic factors such as the diffusion of technology, intellectual property rights and macroeconomic trends; allowing students to make a significant contribution to the promotion of innovation in relevant areas and to contribute to development in a dynamic, technology-based environment.		
Learning outcomes of the course unit	Teaching and learning methods	Assessment methods
Will be able to accumulate, analyse and interpret information independently	Problematic teaching, lecture discussion, problem conversation, demonstration	Test (open and closed questions): the task of solving problems.
They will be able to collect the scientific information necessary to verify economic insights and select the appropriate bibliographic sources.		
Develop communication skills to help you succeed in dynamic business environments and respond to changing conditions	Active participation in practical workshops (during the seminar), examination of case studies, problem-solving learning, teamwork	Prepare and present a team project, conduct workshops, assess colleagues' involvement in teamwork, and evaluate collegiate projects.
Gain a comprehensive knowledge of the innovation and technology economy and will be able to apply it in a practical and creative way		
Will be able to present the results of studies in the form of a report with reasoned conclusions and suggestions	Project preparation in teams, presentation, discussion, practical workshops, application of active methods, collaborative	Active participation in practical workshops during seminars.
Will be able to work in a team, taking responsibility for his task or part of a task, or being a team leader		

	learning, mapping of ideas (thoughts) and concepts.	
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Content	Contact hours							Individual work: time and assignments	
	Lectures	Tutorials	Seminars	Workshops	Internship	Laboratory work	Contact hours, total	Individual work	Tasks for individual work
1. <b>Introductory lecture.</b> The goals and objectives of the subject and the abilities and benefits acquired by students are also discussed. Basic concepts and measurements.	2						2	6	
2. <b>Introduction to the basis of innovation.</b> We will examine the concept, classification, importance and need for innovation in the modern economy. The impact of innovation on growth, competitive advantage. Let's understand the features of innovation and the adaptation and life cycle of innovations.	4		2				6	18	Review of the Scientific Literature: Tidd J., Bessant J. R. (2018) Sk. 1, 2
3. <b>The development of the innovation economy.</b> We will discover the importance of innovation in the history of economic thought and the evolution of innovations and analyse modern innovation processes, planning, implementation, and diffusion. Diffusion and assimilation of technology. Creating the value of innovation and intellectual property.	4		4				8	25	Review of scientific literature: Tidd J., Bessant J. R. (2018) Sk. 2, 9, 13, 14
4. <b>Innovations in the modern perspective and their future trends.</b> We will discuss different sources of innovation, such as markets, consumers, crises, etc. Innovation works in the context of communications and networks so that we will examine innovation networks, their application, open and closed innovations, benefits and challenges. Industrial Revolution 4.0, Innovation in the Digital Era: New Business Models, Digital Platforms.	4		4				8	25	Analysis of scientific literature: Part V of the VLH. Tidd J., Bessant J. R. (2018) Sk. 5, 7, 11
5. <b>Innovation policy and its measurement, macroeconomic trends.</b> EU-Lithuania innovation policy, economic growth and structural changes. Paradigms of techno-economics. National innovation ecosystems.	2		4				6	18	Kogan is kt. (2017), Dempere is kt. (2023), Ciaffi ir kt. (2024)
6. Guest workshops			2				2	6	
<b>Total</b>	16		16				32	98	

Assessment strategy	Weight %	Deadline	Assessment criteria
Test	40	Session	Test of open and closed questions. The test consists of 20 questions. The student's ability to systematise and analyse the material laid out during lectures and seminars is assessed during the test. The value of questions ranges from 0.5 to 5 points. The test is performed in the VMA environment. Students' knowledge is valued as follows: 10 (ten) points with 95% or more scored (excellent knowledge and

			<p>skills);</p> <p>9 (nine) points with a score of 85-94% (very good knowledge and skills, there are minor discrepancies);</p> <p>8 (eight) points with 75-84% scored (good knowledge and skills);</p> <p>7 (seven) points when scored 65-74% (average knowledge and skills, there are errors);</p> <p>6 (six) points with 55-64% scored (knowledge and skills below average);</p> <p>5 (five) points with 45-54% scored (knowledge and skills still meet the minimum requirements);</p> <p>Below 45% of the test is not passed (the minimum requirements are unmet). In this case, the test must be passed during the period of passing the exams.</p>
Preparation of the project in teams and its presentation during seminars	40	During the semester	<p>Students in teams of 2-3 prepare a project: a case study and its presentation to other colleagues in practical workshops, involving the audience in active workshops. Workshops are conducted using active methods, e.g. creating a game or interactive activity, inventing a brain battle, etc. The following criteria are evaluated: the logical arrangement of thoughts, the retention of the attention of colleagues, the involvement of the audience in the discussion, the use of active methods, the generalisation and conclusions of discussions and essential thoughts.</p>
Active participation in seminars	20	During the semester	<p>Students actively participate in the workshop during the seminars to study case studies. Active participation is assessed depending on how many times the student has entered the workshop (not including the conduct of his workshop):</p> <p>5 workshops – 10 points (20 percent);</p> <p>4 workshops – 7 points (14 percent);</p> <p>3 workshops – 5 points (10 percent);</p> <p>2 workshops – 3 points (4 percent);</p> <p>1 workshop – 1 point (2 percent).</p> <p>Not participating in the workshop – 0 points (0 per cent)</p> <p>Only active participation during the workshop is appreciated!</p>
<p>The final grade is formed by summing up the test results, work seminars and the project. Collecting 45% or more from the test is necessary so that the test results are credited. For a positive assessment, it is required to collect min. 45% of all the components of the subject. Important: the project is a necessary task of the subject; without paying for the project - the test is not allowed to be taken). Only the final (summed up) grade of the subject is rounded.</p>			
An externship exam is not possible.			

Author (-s)	Publishing year	Title	Issue, volume	Publisher
<b>Mandatory literature</b>				
<u>Tidd J.</u> , <u>Bessant J. R.</u>	2018	Managing Innovation: Integrating Technological, Market and Organizational Change, 6th Edition Ch .1 – 10, 13, 15	ISBN: 978:1-119-37945-4	Wiley
Kogan, L., Papanikolaou, D., Seru, A., Stoffman, N.	2017	Technological Innovation, Resource Allocation, and Growth	<a href="https://doi.org/10.1093/qje/qjw040">https://doi.org/10.1093/qje/qjw040</a>	The Quarterly Journal of Economics, 132(2), 665-712.
Dempere, J.; Qamar, M.; Allam, H.; Malik, S.	2023	The Impact of Innovation on Economic Growth, Foreign Direct Investment, and Self-Employment: A Global Perspective	<a href="https://doi.org/10.3390/economies11070182">https://doi.org/10.3390/economies11070182</a>	<i>Economies</i> 2023, 11, 182.
Ciaffi, G., Deleidi, M., Mazzucato, M.	2024	Measuring the macroeconomic responses to public	<a href="https://doi.org/10.1093/icc/dtae005">https://doi.org/10.1093/icc/dtae005</a>	<i>Industrial and Corporate Change</i> , 33(2), 363–382

		investment in innovation: evidence from OECD countries		
Moodle pateikta mokomoji ir papildoma medžiaga				
<b>Further reading</b>				