



ENVIRONMENTAL AND CIRCULAR ECONOMY

Credit points	4 CP		
Duration of the course	4th semester		
Study course annotation	During the study course, students will learn the concept of sustainable development and circular economy principles and their application to real cases in production, as well as develop skills such as creativity, systemic thinking and teamwork. The study course contains information about sustainable development and circular economy and the need for their implementation		
Aim of the study course	The aim of the course is to create an understanding of the environment as an important source of economic and social development and the most important measures to reduce the impact of the economy on the environment.		
Study course results	Knowledge	Skills	Competences
	<ol style="list-style-type: none"> 1. Understands the impact of economic growth on the environment 2. Understands the instruments of economic regulation 3. Knows environmentally friendly economic and business models 	<ol style="list-style-type: none"> 1. Able to analyze the effects of economic activity on the environment and their consequences 2. Able to perform life cycle analysis 	<ol style="list-style-type: none"> 1. Able to choose appropriate methods for determining the economic value of the environment and knows the basic principles of their use 2. Able to develop an environmentally friendly company strategy
Study course content	Topics		
	1	Interaction between environment and economy	
	2	Basic principles and concepts of the circular economy	
	3	EU and national legislation and standards	
	4	Product life cycle and life cycle assessment	
	5	Circular economy business models	
	6	Use of environmentally friendly business models in business	
7	Sustainable development. Basic principles, strategies and concepts		
Form of assessment:	Differentiated written assessment		
Obligatory literature:	1. Helen Kopnina, Kim Poldner. Circular Economy: Challenges and Opportunities for Ethical and Sustainable Business. Routledge, Taylor & Francis Group, 2021.- 230 pp.		
Additional reading:	<ol style="list-style-type: none"> 1. Field BC, Field MK Environmental Economics, 7th edition. McGraw Hill Education, 2016. 2. Weetman C. A Circular Economy Handbook for Business and Supply Chains. e-book Dawsonera. 3. Business Models for the Circular Economy: a European perspective / Viktor Prokop, Jan Stejskal, Jens Horbach, Wolfgang Gerstlberger, editors. Cham: Springer, 2022. 269 pp. ISBN: 9783031083129 4. Sustainability principles and practice / Margaret Robertson. 3rd ed. Abingdon, Oxon; New York, NY : Routledge, Taylor & Francis Group, 2021. 531 pp. ISBN: 9780367365196 5. Kishita, Y., Matsumoto, M., Inoue, M., Fukushige, S. (Eds.). EcoDesign and Sustainability I 6. Products, Services, and Business Models Springer Singapore, 2021. 		



Other sources of information:

1. The website of the Ministry of Environmental Protection and Regional Development www.varam.gov.lv
2. European Environment Agency website www.eea.europa.eu
3. World Resources Institute website www.wri.org

Changes and additions to the program and literature list are possible during the study process