

COURSE DESCRIPTION CARD

Bialystok University of Technology Faculty of Engineering Management										
Field of study	Management							Degree level and programme type	first degree/second degree	
Specialisation/ diploma path	-							Study profile	-	
Course name	Circular economy							Course code	IS-FM-00109S	
								Course type	elective	
Forms and number of hours of educational activities	L	C	LC	P	SW	FW	S	Semester	summer	
	15	15						No. of ECTS credits	5	
Entry requirements	-									
Course objectives	Understanding the relationship between socio-economic development and the environmental sphere, acquiring knowledge about the circular economy and the possibilities of implementing activities in this area. Acquiring the ability to take into account environmental issues in business activities.									
Course content	Lecture: Definitions related to the circular economy (CE). Circular economy in international and EU environmental policy. Objectives and principles of CE. Areas of CE: design for environment, sustainable production and consumption, waste management. Activities of CE in enterprises and local government units. Classes: Implementation of CE activities in various sectors, including design for environment, recycling, and reuse. National and international good practices of CE implementation in enterprises and local government units. Financing of CE activities.									
Teaching methods	Informative lecture, case study, project method									
Assessment method	Lecture: written final test; Classes: evaluation of preparation for the classes, evaluation of performed tasks and task presentation prepared in groups, final test									
Symbol of learning outcome	Learning outcomes							Reference to the learning outcomes for the field of study		
	Knowledge: the graduate knows and understands							-		
LO1	basis of circular economy, its goals and principles, and its role in the socio-economic development of the country							-		
	Skills: the graduate is able to							-		

LO2	list and characterize activities regarded to circular economy in the enterprise and local government unit	-
LO3	organize individual work and work in a team	-
	Social competence: the graduate is ready to	-
LO4	use of knowledge about circular economy to solve problems in enterprises and local government units	-
Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed
LO1	written test	L
LO2	evaluation of the preparation for classes, evaluation of the tasks performed, evaluation of the project prepared in the team	C
LO3	evaluation of the preparation for classes, evaluation of the tasks performed, evaluation of the project prepared in the team	C
LO4	evaluation of the preparation for classes, evaluation of the tasks performed, evaluation of the project prepared in the team	C
Student workload (in hours)		No. of hours
Calculation	participation in lectures	15
	participation in classes	15
	preparation for classes	60
	preparation to pass classes	15
	preparation to pass a lecture	16
	participation in consultations	4
	TOTAL:	125
Quantitative indicators		HOURS No. of ECTS credits
Student workload – activities that require direct teacher participation		34 1,4
Student workload – practical activities		94 3,8
Basic references	<ol style="list-style-type: none"> 1. Delchet-Cochet K., <i>Circular Economy</i>, John Wiley & Sons, Incorporated, Newark 2020. 2. Amato A., <i>The Circular Economy Challenge: Towards a Sustainable Development</i>, MDPI - Multidisciplinary Digital Institute, Basel 2022. 3. Mao J. et al., <i>Circular Economy and Sustainable Development Enterprises</i>, Springer, Singapore, 2018. 	
Supplementary references	<ol style="list-style-type: none"> 1. Braungart M., McDonough W., <i>Cradle to cradle: remaking the way we make things</i>, Vintage, London 2019. 2. Singh N. K., Pandey S., Sharma H., Goel S., <i>Green Innovation, Sustainable Development, and Circular Economy</i>, Taylor & Francis, Boca Raton, London, New York 2021. 	
Organisational unit conducting the course	Department of Production Management	Date of issuing the programme
Author of the programme	Dr eng. Joanna Godlewska	10.03.2023

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar

