

<b>Study program: MAS Geography</b>			
<b>Course title:</b> Circular cities			
<b>Lecturers:</b> Jelena Dunjić, Dajana Bjelajac			
<b>Course status:</b> optional			
<b>ESPB: 6</b>			
<b>Condition:</b> none			
<b>Course Objective</b> Familiarization with the theory of urban metabolism to understand the concept and principles of circular cities. Acquiring knowledge in the fields of circular economy and urban issues enables the understanding of the need to transition from a linear to a circular concept in order to preserve resources and achieve sustainable development goals in cities.			
<b>Course Outcome</b> Upon completing the course, students are equipped to interpret and evaluate the system of urban metabolism and its sustainable management. Students with the acquired knowledge can foresee the possible consequences of good or poor management of cities and the environment in urban areas. Ultimately, by applying the acquired knowledge, students can critically assess the factual situation and plan adaptation measures.			
<b>Course Content</b> <b>Theoretical lectures include:</b> 1. Introduction to Circular Economy; 2. Principles of Linear and Circular Economy; 3. Concept of Urban Metabolism; 4. Challenges of Urban Environments; 5-6. Urbanization and Climate Change; 7-8. Management of Natural Resources in Urban Areas; 9-10. Sustainable Waste Management; 11-12. Sustainable Management of Artificial Lighting; 13. Enhancing Urban Resilience; 14. Nature-Based Solutions Concept; and 15. Application of GIS in the Analysis of Urban Issues and Solution Proposals. <b>Practical lectures</b> involve fieldwork divided into two segments. The first segment includes visits to relevant sites and institutions to gain experience in real conditions, while the second segment focuses on data collection. The analysis of the investigated issues and the data obtained from the fieldwork will be performed using GIS tools.			
<b>Literature</b> Orttung, R.W. ed., 2019. <i>Capital cities and urban sustainability</i> . Routledge. James, P., 2014. <i>Urban sustainability in theory and practice: circles of sustainability</i> . Routledge. Ravetz, J., George, C., Howe, J. and Roberts, P.W., 2004. <i>Environment and the City</i> . Routledge. Lansink A. 2018. Challenging changes: Connecting Waste Hierarchy and Circular economy. LEA Nijmegen. Ivanovic, O. M. (2019). Ecological responsibility and sustainable development as preconditions for development of the concept of circular economy. In <i>Green Business: Concepts, Methodologies, Tools, and Applications</i> (pp. 1-16). IGI Global. Munitlak Ivanović, O., Vujić, M., (2022). Model linearne ekonomije vs. Model cirkularne ekonomije, <i>Ecologica</i> , 26(106), 163-168, <a href="https://doi.org/10.18485/ecologica.2022.29.106.4">https://doi.org/10.18485/ecologica.2022.29.106.4</a> Бјелајац, Д., Ђерчан, Б., Павловић, М. 2022. Приручник о светлосном загађењу. <i>Невладина организација „Сарге Ностет“</i> . Нови Сад			
<b>Number of hours of active lectures</b> 4	<b>Theoretical lectures:</b> 2		<b>Practical lectures :</b> 1+1
<b>Teaching Methods</b> Oral presentation method, interactive teaching, textual method, illustrative-demonstrative method, and fieldwork.			
<b>Assessment of Knowledge</b>			
<b>Pre-exam Obligations</b>	<b>points</b>	<b>Final exam</b>	<b>points</b>
Activity during lectures	5	Written exam	
Activities during exercises / practical lectures	5	Oral exam	30-45
Test(s)	20-40	.....	
Project(s)	5		

