



## **Syllabus of the course** **Basics of circular economics**

**Degree of Higher Education – bachelor**  
**Field of Knowledge – 05 “Social and behavioral science”**  
**Specialty – 051 “Economics”**  
**Educational-professional program “International Economics”**

**Year of study: 3, Semester: 6**

**Number of credits: 5 Language of study: English**

### **Head of the course**

**Full name** Associate Professor  
**Olena Karas**

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### **Description of the course**

The course " Basics of circular economics" is aimed at students mastering theoretical knowledge and acquiring practical skills of analyzing the global inclusive circular economy and recycling, understanding the global problems of limited natural resources and its consumption taking into account the global economic and ecological risks, understanding the sustainable development goals and an environmentally sustainable society, the necessity of the recycling technologies implementation and principles of international waste trade, understanding the peculiarities of recycling policy in Ukraine and other foreign countries. Recycling can benefit the community and the environment that's why it is necessary to study the basic concepts and directions of its development in order to analyze its efficiency and implement the recycling principles into the student's mentality and their future professional skills.

This course is designed to help students understand the growing business case for sustainable solutions and to learn how to manage and grow a sustainable business by incorporating recycling principles into the students' future professional activity.

### Structure of the course

<b>Hours (lectures / seminars)</b>	<b>Theme</b>	<b>Results of study</b>	<b>Tasks</b>
4/2	1. The global resource supply and resource consumption problems. Global economic and environmental risks	To understand the current global problems connected with rarity of natural economic resources and constant increase of consumption, the modern global economic and environmental risks and the ways of its overcoming	Tests, questions
4/2	2. The circular economy basics: genesis, structure, peculiarities and the functioning principles	To know the essence of the circular economy and its role in providing rational consumption of limited economic resources, analysis of the circular economy models, its principles and toolkit; understanding the principles and features of the circular economy functioning	Tests, tasks
4/2	3. Recycling basics: the essence and methods	To understand the essence of recycling and features of its development all over the world; study of waste classification in order to provide effective waste management in the students' future professional activity	Tests, tasks
4/2	4. Recycling as the only civilized method of disposal household waste	To realize the role of recycling in modern industry world as well as the essence of consumer and industrial waste recycling; providing students with knowledge of economic assessment of the waste recycling efficiency	Tests, tasks, cases
4/2	5. Sustainable development goals and an environmentally sustainable society	To understand the meaning of the sustainable society the ways to achieve it; be able to provide decoupling analysis in order to develop economic sustainability	Tests, tasks
4/2	6. Recycling technologies and international waste trade	To realize the essence of the waste recycling technologies and international waste trade in order to provide effective recycling policy	Tests, tasks
4/2	7. Features of recycling in Ukraine and foreign countries	To analyze the recycling development features in Ukraine and other foreign countries; be able to make economic comparison of effective and ineffective recycling policies in different countries	Tests, tasks

## References

1. The circular economy in detail. URL: <https://www.ellenmacarthurfoundation.org/the-circular-economy-in-detail-deep-dive>
2. Bakker, T. and Hollander, M. (2020). *Products that Last: Product Design for Circular Business Models*. BIS Publishers, 100 p.
3. Circule. URL: <https://circulesolutions.com/>
4. James, D. (2020). *Secrets to Sustainable Living: On the Road to Zero Waste Lifestyle, from Recycling/Reusing, To Growing Your Own, Composting, and Even Backyard Homestead*. Kindle Edition, 90 p.
5. Kristiansson, J. (2020). *The Last Straw: Change Your Life and the Planet – for Good*. Kindle Edition, 186 p.
6. Lacy, P. (2020). *The Circular Economy Handbook: Realizing the Circular Advantage*. Palgrave Macmillan, 350 p.
7. Liu, L, Ramakrishna, S. (2021). *An Introduction to Circular Economy*. Online: <https://link.springer.com/book/10.1007/978-981-15-8510-4>.
8. Mavropoulos, A., Nilsen, A. (2020). *Industry 4.0 and Circular Economy: Towards a Wasteless Future or a Wasteful Planet?* John Wiley and Sons Ltd, 448 p.
9. Page, K. (2021). *Mastering the Circular Economy: A Practical Approach to the Circular Business Model Transformation*, 1<sup>st</sup> edition, 376 p.
10. Science, E. (2021). *Circular Economy and Sustainability: Volume 1: Management and policy*, 1408 p.
11. Weetman, C. (2020). *A Circular Economy Handbook: How to Build a More Resilient, Competitive and Sustainable Business*. Kogan Page Ltd, 496 p.
12. Zvarych I. *Circular economy and global waste management*. URL: [http://dspace.wunu.edu.ua/bitstream/316497/45141/1/%D0%9B%D0%B5%D0%BA%D1%86%D1%96%D1%97\\_%20Circular%20economy%20and%20global%20waste%20management.pdf](http://dspace.wunu.edu.ua/bitstream/316497/45141/1/%D0%9B%D0%B5%D0%BA%D1%86%D1%96%D1%97_%20Circular%20economy%20and%20global%20waste%20management.pdf)
13. *Circular economy: definition, importance and benefits*. URL: <https://www.europarl.europa.eu/topics/en/article/20151201STO05603/circular-economy-definition-importance-and-benefits>
14. [http://dspace.wunu.edu.ua/bitstream/316497/45141/1/%D0%9B%D0%B5%D0%BA%D1%86%D1%96%D1%97\\_%20Circular%20economy%20and%20global%20waste%20management.pdf](http://dspace.wunu.edu.ua/bitstream/316497/45141/1/%D0%9B%D0%B5%D0%BA%D1%86%D1%96%D1%97_%20Circular%20economy%20and%20global%20waste%20management.pdf)
15. *An Introduction to Circular Economy*. URL: <https://link.springer.com/book/10.1007/978-981-15-8510-4>
16. *Reference book on Circular Economy*. URL: [https://www.researchgate.net/publication/375025055\\_Reference\\_book\\_on\\_Circular\\_Economy\\_for\\_teachers](https://www.researchgate.net/publication/375025055_Reference_book_on_Circular_Economy_for_teachers)

### Assessment policy

- **Deadline and re-course policies:** Works passed in violation of terms without valid reasons are rated lower (-20 points). Modules are reassigned with the permission of the Dean, if there are valid reasons (for example, sick leave).

- **Academic Integrity Policy:** All written works are checked for plagiarism and are allowed to be defined with correct text borrowings of no more than 20%. Write-offs during tests and exams are forbidden (including using mobile devices). Mobile devices may only be used during online testing (for example, Kahoot program).

- **Attendance Policy:** Attendance of lessons is a necessary component of the grade for which points are earned. For objective reasons (for example, illness, international internship), training may be provided on-line in case of agreement with the course leader.

### Assessment

The final score (on a 100-point scale) the discipline "Basics of circular economics" is defined as a weighted average, depending on the proportion of each component of test credit.

Module 1		Module 2	Module 3
40%	40%	5%	15%
Current assessment	Modular control 1	Training	SSW
It is defined as the arithmetic average of the grades obtained during classes	1. Theoretical questions (2 questions) – max. 50 points. 2. Task (1 task) – max. 50 points.	Assessment for training tasks	It is defined as the arithmetic average of the grades obtained during the study of the discipline for self-study work (abstract, essay)

### Student Assessment Scale:

ECTS	Scores	Content
A	90-100	perfect
B	85-89	good
C	75-84	good
D	65-74	satisfactorily
E	60-64	enough
FX	35-59	unsatisfactory with the possibility of reassembly
F	1-34	unsatisfactory with the required re-course