

Urban and rural ecology								Code of the course	Year / Semester
Type of subject:		Education Profile		The level of education		Form of studies			
Obligatory		General Academic				Stationary			
Type of subject							ECTS		
Lecture	Exercises	Laboratory	Project	Seminar	Practical classes	Exam			
15	30	-	-	-	-	-	6		
Subject coordinator:									
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II. COURSE CONTENT		
Course type – Lecture		Number of hours
1	Introductory issues.	1
2	Levels of organization of ecological systems.	1
3	Characteristics of ecosystems.	1
4	Urban ecosystems (urbicenoses) and rural ecosystems (agrocenoses).	1
5-7	Methods used in ecosystem research. Analysis of results and conclusions.	3
8-9	The role of green areas in maintaining the biodiversity of urban areas.	2
10	Synatropization.	1
11	Synurbization.	1
12	Environmental stresses.	1

13-14	Anthropopression – sources, impact, effects.	2
15	Colloquium	1
TOTAL:		15
Course type - Exercises		Number of hours
1-2	Introduction to Exercises	2
3-5	Managing biodiversity of urbanized and non-urbanized ecosystems.	6
6-7	Natural, introduced, synanthropic plants. Parks, squares, lawns, allotment gardens.	4
8-9	Adaptation mechanisms of animals in urban areas.	4
10-11	Anthropogenic burden on urban and rural environments.	4
12-14	Sustainable development of rural and urban areas.	6
15	Colloquium	2
TOTAL:		30

DIDACTIC METHODS	
1.	Lecture using audiovisual means or the PCz e-learning platform
2.	Author's teaching materials

METHODS OF ASSESSMENTS: (F – FORMATIVE; S – SUMMATIVE)	
F01	Activity in classes
F02	Assessment of tasks developed during exercises.
S01	Final colloquium.

III. STUDENT WORKLOAD		
L.p.	Form of activity	Numer of hours for activity
		[hours]
1. Direct teaching hours:		

1.1	Hours of classes organized by universities – lectures	15
1.2	Hours of classes organized by universities – exercises	30
1.3	Hours of classes organized by universities – laboratory	
1.4	Hours of classes organized by universities – project	
1.5	Hours of classes organized by universities – field activities	
1.6	Hours of classes organized by universities – seminar	
1.7	Exam	
Total direct hours:		45
2. Student's own work		
2.1	Preparation for exercises and for final exams	20
2.2	Preparation for laboratory test reports, preparation of individual	
2.3	Preparing your own project	
2.4	Preparation for the final exam from the lecture	
2.5	Exam Preparation	
2.6	Reading the literature	5
Total student's self-studies:		30
Overall student workload:		75
TOTAL NUMBER OF ECTS FOR THE COURSE:		6
The number of ECTS credits that a student obtains in classes requiring the direct participation of the teacher:		2,4
The number of ECTS credits that the student obtains as part of his/her own work		3,6

IV. PRIMARY AND SUPPLEMENTARY LITERATURE

Primary literature

1	James P., Douglas I., Urban ecology. An introduction, Taylor and Francis Ltd., 2023.
2	Parris. Kirsten. M., Ecology of Urban Environments, John Wiley and Sons Ltd, 2016
3	Tovey H., Bruckmeier K., Rural Sustainable Development in the Knowledge Society, Taylor and Francis Ltd., 2016.

Supplementary literature

VII. OTHER USEFUL INFORMATION ABOUT THE SUBJECT

1.	Opportunity to review supporting materials and literature:
	<i>Appropriate to the type of material - in teaching classes, in the TUC Central Library.</i>
2.	Information on when and where the classes will be held
	<i>Notice board at the Faculty of Infrastructure and Environment and on the website of the Faculty of Infrastructure and Environment, MSz USOS system.</i>
3.	Information about the consultation (times + place):
	<i>the staff consultation schedule is available on the Faculty of Infrastructure and Environment website and on the staff room door.</i>