SYLABUS DO PRZEDMIOTU									
	Fie	eld of studies: I	LANDS	SCAF	PE ARCH	HITECTUR	E		
Course title / Nazwa przedmiotu (j. polski)				Code of the course		Year / Semeste r			
Urban and	d rural ecolo	gy				Nie uzu	<mark>pełniać</mark>	I	01
Ekologia i	miast i obsz	arów wiejskich	1						
Type of subject:		Education Pr	Profile		The lev	Form of		f studies	
oblig	atory	General Acad	emic	Fir	First cycle studies stati		onary		
	I	Type o	f subje	ect		l		EC	TS
Lecture	Exercises	Laboratory	Project Semina		Practica I classes	Exam			
15	30	-	-					6	5
Subject co	oordinator:		I					1	

1.9	SUBJECT CARD			
	SOBOLOT OAKD			
COUF	RSE OBJECTIVE			
C01	Knowledge about the specific structure and ecosystems of cities.			
C02	Knowledge of the differences between urban and rural ecosystems.			
PREL	IMINARY COURSE REQUIREMENTS FOR KNOWLEDGE, SKILLS AND OTHER			
СОМ	PETENCES			
1	Knowledge of basic terminology in the field of the natural environment and its protection.			
LEAF	RNING OUTCOMES			
Know	ledge: student knows and understands			
EU1	Student knows and understand of the ecology of cities and rural areas.			
Skills	Skills: student is able to			
EU2	Student is able to assess ecological problems related to the urban environment and			
	rural areas.			
Socia	al competences: Student is ready to			

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EU3 Is ready to work in a group and make independent decisions regarding the ecology of cities and rural areas

II. COL	IRSE CONTENT	
Course to	/pe – Lecture	Number
Course ty	/pe - Lecture	of hours
L1	Introductory issues.	1
L2	Levels of organization of ecological systems.	1
L3	Characteristics of ecosystems.	1
L4	Urban ecosystems (urbicenoses) and rural ecosystems	1
	(agrocenoses).	
L5-L7	Methods used in ecosystem research.	3
	Analysis of results and conclusions.	
L8-L9	The role of green areas in maintaining the biodiversity of urban	2
	areas.	
L10	Synatropization.	1
L11	Synurbization.	1
L12	Environmental stresses.	1
L13- L14	Anthropopression – sources, impact, effects.	2
L15	Colloqium	1
	TOTAL:	15
Course to	vne Evereine	Number
Course ty	ype - Exercises	of hours
E1-E2	Introduction to Exercises	2
E3-E5	Managing biodiversity of urbanized and non-urbanized ecosystems.	6
E6-E7	Natural, introduced, synanthropic plants. Parks, squares, lawns,	4
	allotment gardens.	
E8-E9	Adaptation mechanisms of animals in urban areas.	4
E10-E11	Anthropogenic burden on urban and rural environments.	4
E12-E14	Sustainable development of rural and urban areas.	6
E15	Colloqium	2
	TOTAL:	30

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

METH	METHODS OF ASSESSMENTS: (F – FORMATIVE; P – SUMMATIVE)		
F01	Activity in classes.		
F02	Assessment of tasks developed during exercises.		
P01	Final colloquium.		

III.	III. STUDENT WORKLOAD				
L.p.	Form of activity	Numer of			
		hours for			
		activity			
		[hours]			
1.	direct teaching hours:				
1.1	Hours of classes organised by university – lectures	15			
1.2	Hours of classes organised by university – tutorials	30			
1.3	Hours of classes organised by university – laboratory	0			
1.4	Hours of classes organised by university – project	0			
1.5	Hours of classes organised by university – seminar	0			
1.6	Exam	0			
	Total direct hours:	45			
2.	Praca własna studenta				
2.1	Preparation for tutorials	20			
2.2	Preparation for laboratories	0			
2.3	Preparation for projects	0			
2.4	Preparation for finall lectures colloqium	5			
2.5	Preparation for exam	0			
2.6	Getting acquainted with the indicated literature	5			
	Total student's self-studies:	30			
	Overall student workload:	75			
TOTA	TOTAL NUMBER OF ECTS FOR THE COURSE: 6				

The number of ECTS credits which the student obtains from classes requiring	3,6
direct participation of the teacher:	
Number of ECTS credits to be obtained by the student through own work:	2,4

IV	IV. PRIMARY AND SUPPLEMENTARY LITERATURE			
Prima	ary literature			
1	Dobrzańska B., Dobrzański G., Kiełczewski D. (red.), Ochrona środowiska przyrodniczego, PWN, Warszawa, 2008.			
2	Gwiazdowicz M., Środowisko przyrodnicze na obszarach wiejskich – zagrożenia i szanse. Studia BAS, 2010, 4(24)			
3	Graczyk A., Zrównoważony rozwój w teorii i praktyce, Prace Naukowe AE we Wrocławiu Nr 1190, Wrocław, wyd. AE we Wrocławiu, 2007.			
4	Bogumił A., Greniewski M.J., Greniewski P., Krzyżanowski L.J., Rok B., Walaszczyk K., Zrównoważony rozwój, Warszawa 2004.			
5.	Gruszczyński J., Czasopismo Infrastruktura i Ekologia Terenów Wiejskich / Infrastructure and Ecology of Rural Areas, Stowarzyszenie Infrastruktura I Ekologia Terenów Wiejskich afiliowane przy Komisji Technicznej Infrastruktury Wsi, Polska Akademia Nauk, Oddział w Krakowie http://www.infraeco.pl/pl/			
6.	Zimny H., Ekologia miasta. Agencja ReklWyd. A. Grzegorczyk, Warszawa, 2005.			
7.	Scientific articles			
Supp	lementary literature			
1.	Magazines related to the subject of the subject			
2.	Scientific journals related to the subject of the subject			

V. I	_EARNING OUT	COMES AT	TAINMENT MA	TRIX			
		In relations to the					
	learning outcomes to						
S	ω In relation to characteristic I and					S	
outcomes	the learning	second level PRK		v	و پ	s _{lo}	evaluation methods
outc	outcomes		In technical	Objectives subject	Content of programme	g to	ше
	specified for	_	sciences	bjective subject	onte	hin	tion
Learning	the field of	universal	and leading	ŏ "	Son	Teaching tools	lluat
Les	study	Ve	4 -			_	9
	Study	nj	to				Ó
	Study	uni	to engineering				Ö
	Study	uni					6

EU2	K1_U04	P6U_UW P6S_UO	P6S_UW	C01 C02	W1- W15 C1-C15	1,2	F01, F02 P01
EU	K1_K03	P6S_KK P6S_KR P6U_K	P6S_KK P6S_KR	C01 C02	C1-C15	2	F01, F02

VI. FOR	RMS OF GRADES-DETAILS				
GRADES	EFFECTS OF LEARNING				
	EU1				
2,0	Knows only the basic terms of the ecology of cities and rural areas. Is unable to correctly define ecological processes occurring in nature				
3,0	Has general knowledge of the specific structure and functioning of urban ecosystems. He lists only some of the elements that make up the ecosystems of cities and rural areas.				
4,0	Demonstrates correct knowledge of the subject matter. Is able to use source materials and understands the need to use them, while being critical of some content.				
5,0	Has extensive and up-to-date knowledge of the ecology of cities and rural areas.				
	EU2				
2,0	Cannot identify any ecological problems related to urban and rural environments.				
3,0	Is able to identify ecological problems related to the urban environment and rural areas.				
4,0	Is able to analyze selected ecological problems related to the urban environment and rural areas.				
5,0	Is able to properly carry out the procedure for assessing ecological problems related to the urban environment and rural areas. Has the ability to draw conclusions and put forward their own concepts.				
	EU3				
2,0	Is not ready to cooperate in a team.				
3,0	Is ready to cooperate in a team, notices the need to work in a team and takes up this challenge.				
4,0	Is ready to help his team and is ready to draw up a work plan (schedule).				
5,0	Is ready to make independent decisions in a group (becomes a group leader), being sure of his decisions during discussions on a given topic and is able to represent the group's opinion.				

A half mark of 3.5 is given if the student has fully passed the learning outcomes with a mark of 3.0 but has not fully assimilated the learning outcomes with a mark of 4.0.

A half mark of 4.5 is given in case of full credit of the LEARNING EFFECTS for a mark of 4.0 but the student has not fully assimilated the LEARNING EFFECTS for a mark of 5.0

VII. OTHER USEFUL INFORMATION ABOUT THE SUBJECT

- Opportunity to review supporting materials and literature:
 Appropriate to the type of material in teaching classes, in the TUC Central Library.
- 2. Information on when and where the classes will be held

 Notice board at the Faculty of Infrastructure and Environment and on the website of the Faculty of Infrastructure and Environment, USOS system.
- 3. Information about the consultation (times + place):

 the staff consultation schedule is available on the Faculty of Infrastructure and
 Environment website and on the staff room door.