

Course title:	Valorization of ecosystems in the aspect of keeping biodiversity in rural and urban areas
Course title in Polish:	Waloryzacja ekosystemów w aspekcie zachowania bioróżnorodności obszarów wiejskich i miejskich
Course for discipline:	agriculture and horticulture

Semester:	4	Status of course:	faculty	Language:	english
Academic year:		Catalog number:			

Coordinator of course:	dr hab. Beata Fornal-Pieniak, prof. SGGW
Lecturer od course:	dr hab. Beata Fornal-Pieniak, prof. SGGW
Executing unit:	Department of Environment Protection and Dendrology
Ordering unit:	Doctoral School SGGW
Assumptions, goals and description of the course:	Diversity of ecosystems and problems with their protection. Plants (in different ecosystems) as natural indicators are used to assess changes in the environment (monitoring). Analysis of plant cover to determine their natural values. Methods of ecosystems valorization for spatial landscape planning with including biodiversity aspects.
Didactic form, number of hours:	lectures, 10 hours
Teaching methods:	lectures, discussion
Limit of people in the group:	no limits

Learning outcomes		
KNOWLEDGE - the graduate knows and understands:	SKILLS - the graduate is able to:	COMPETENCES - the graduate is ready to:
To the extent enabling to revise the existing pradisgms in the field/discipline - the world achievements, gathering theoretical background as well as general and selected detailed issues	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	Critically evaluate the achievements in the field/discipline represented
Major general development trends in the field/discipline		Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect
		Support the ethos of scientific circles and conduct independent research
The method of verification of learning outcomes:	test	
Form of documentation of achieved learning outcomes:	test	
Elements and weights of the final grade:	100% test + attendance on lectures	
Place of the course:	classroom or online	

Basic and supplementary literature	
1. Fornal-Pieniak 2016. Ekspertyzy szaty roślinnej - wybrane przykłady : tereny miejskie i wiejskie Saarbrücken : Wydawnictwo Bezkręsy Wiedzy ISBN 978-3-639-88989-5 2. Fornal-Pieniak B., Mandziuk A. Kiraga M. 2023. Wybrane aspekty zrównoważonego rozwoju zielonych przestrzeni miejskich. Wyd. SGGW. 3. Fornal-Pieniak B., Żarska B., Szymigala P. Szumigala K. Stangierska D. 2024. Enhancing ecological corridors in rural areas and implications for landscape planning and management in Leszno commune in central Poland. Acta Sci. Pol. Formatio Circumietus 23 (1):19-35	
Comments:	

Estimated number of hours of work of the doctoral student necessary to achieve the assumed learning outcomes:	10
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Leraning outcomes reference to the second degree characteristics of the National Qualification Framework (level 8) covering doctoral competences:		
Symbol:	Learning outcomes:	8 level NQF
SD1_KW01	To the extent enabling to revise the existing pradisgms in the field/discipline - the world achievements, gathering theoretical background as well as general and selected detailed issues	P8S_WG
SD1_KW02	Major general development trends in the field/discipline	P8S_WG
SD1_KU05	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	P8S_UW
SD1_KK01	Critically evaluate the achievements in the field/discipline represented	P8S_KK
SD1_KK03	Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect	P8S_KK
SD1_KK08	Support the ethos of scientific circles and conduct independent research	P8S_KR