COURSE DESCRIPTION CARD

		Faculty of (Civil E	ngin	eering	g and	Envir	onmental Science	ces		
Field of study								Degree level and programme type			
Specialization / diploma path								Study profile			
Course name	Invasive species in forest areas							Course code	IS-FF-00042W/S		
		<u>, </u>						Course type	Erasmus		
Forms and number of hours	L	С	LC	P	SW	FW	S	Semester	summer or winter		
of tuition	15			15		15		No. of ECTS credits	4		
Entry requirements	Ecology, Nature protection										
Course objectives	The aim of the course is to familiarize students with changes occurring in forest ecosystems caused by the spread of invasive species intentionally introduced into ecosystems or accidentally dragged as well as assessing invasive potential and preventing invasions. The student learns the mechanisms of biological invasions, their history and scale as well as methods and costs of mitigating invasive organisms and the effects of invasion.										
Course content	Biological invasions: the essence of the phenomenon, the basic concepts used in the study of biological invasions, international legal instruments to prevent and mitigating the invasion. Features of the biology of invasive plant and animal species. Sources of biological invasions. Impact of environmental transformations by the invasions. Changes in forest ecosystems caused by invasive species populations. Invasive species of greatest importance in forest management. Techniques and costs of mitigating biological invasions in forests.										
Teaching methods	Lecture, exercises, presentation										
Assessment method	Lecture - written tests; project, field workshop - project and report evaluation										
Symbol of learning outcome			L	_earni	ng out	come	6	Reference to the learning outcomes for the field of study			
L01					•			al invasion studies.	L2P_W05		
LO2	The student knows the features of the biology of invasive plant and animal species and the sources of biological invasion.					_					
LO3	f	The student is orecast of thre	ats to t	he fore	est envii	ronmen	t.		L2P_U08		
LO4		Student is able combating biole					lculate	the costs of	L2P_U06		
Symbol of learning outcome								Type of tuition during which the outcome is assessed			
L01		test for lectur							<u>L</u>		
LO2		test for lectur							L		
LO3	proje	ect and report	ts eval	uation					P, FW		

LO4	project and reports evaluation	P, FW					
	Student workload (in hours)	No. of hours					
	Participation in the lectures	15					
Calculation	Participation in the project classes	15					
	Participation in consultations	15					
	Preparation of projects and reports	10					
	Preparation for passing the final test	5					
	Preparation of the report of fieldwork	10					
	Preparation of presentation	10					
	Total:	80					
	Quantitative indicators	antitative indicators Hours Credit					
Student wo	oad – activities that require direct teacher participation 50 2						
	Student workload – practical activities 60						
Basic references	Alexander M. 2012. Management Planning for Nature Conservation. A Theoretical Basis & Practical Guide. Springer Silvy N. J. (ed.) 2012. The Wildlife Techniques Manual (Volume 1: Research/ Volume 2: Management). John Hopkins University Press						
Supplementary references	Krausman P. R., Cain J. W. (eds.) 2013. Wildlife Management and Conservation: Contemporary Principles and Practices Fryxell J. M., Sinclair A. R. E., Caughley G. 2014. Wildlife Ecology, Conservation, and Management. Wiley Blackwell						
Organisational unit conducting the course	Faculty of Civil Engineering and Environmental Sciences	Date of issuing the programme					
Author of the programme	Dan Wołkowycki, PhD	01.03.2020					

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work, S – seminar