COURSE DESCRIPTION CARD

Faculty of Civil Engineering and Environmental Sciences								

Field of study							**Degree level and programme type**	
Specialization / diploma path							**Study profile**	

Course name	Biodiversity conservation of forest areas						**Course code**	IS-FF-00038-1W/S
							Course type	Erasmus

Forms and number of hours of tuition	**L**	**C**	**LC**	**P**	**SW**	**FW**	**S**	**Semester**	summer or winter
	15			15		15		**No. of ECTS credits**	5

Entry requirements	Ecology, Nature protection
Course objectives	The aim of the course is the knowledge and skills of combine principles of forest protection, forest ecology and wildlife protection in valuable natural areas. The course is designed to learn the skills of restoring the functions of forest ecosystems - reclamation and protection of habitats, plant communities and related animals as well as restoring and maintaining a high level of biodiversity using various methods.
Course content	International conventions and declarations on maintaining biodiversity. Biodiversity levels. Principles of forest ecosystem protection. Seeking a consensus between economic interests and nature conservation in anthropogenic changed forests and forests of varying degrees of naturalness. Ecological consequences of anthropogenic transformations of forest ecosystems. Mechanisms of disappearance of the population of selected species of plants, fungi and animals. The role of invasive species in reducing the biological diversity of forest ecosystems. Threats and loss of diversity at the genetic level. The impact of modern forest management on biodiversity. Methods for minimizing biodiversity losses. In situ and ex situ protection.
Teaching methods	Lecture, exercises, presentation
Assessment method	Lecture - written tests; project, field workshop - project and report evaluation

Symbol of learning outcome	**Learning outcomes**	**Reference to the learning outcomes for the field of study**
LO1	The student has in-depth knowledge of the biology and ecology of organisms functioning in forest ecosystems.	L2P_W02
LO2	The student is able to determine the status and make a forecast of threats to the forest environment using the different techniques and technologies.	L2P_U02
LO3	The student knows modern methods used to protect the forest environment against invasions and the negative anthropogenic impact.	L2P_W04
LO4	Student can apply the methods of in situ and ex situ protection.	L2_U02
LO5	The student Is able to assess and plan tasks related to the state of the forest environment, taking into account sustainability criteria.	L2P_U05

Symbol of learning outcome	Methods of assessing the learning outcomes	Type of tuition during which the outcome is assessed
LO1	final test for lectures, project and reports evaluation	L
LO2	final test for lectures, project and reports evaluation	P, FW
LO3	final test for lectures	L
LO4	project and reports evaluation	P, FW
LO5	project and reports evaluation	P, FW

Student workload (in hours)		No. of hours
Calculation	Participation in the lectures	15
	Participation in the project classes	15
	Participation in consultations	20
	Preparation of projects and reports	15
	Preparation for passing the final test	10
	Preparation of the report of fieldwork	20
	Preparation of presentation	5
	Total:	100

Quantitative indicators	Hours	No. of ECTS credits
Student workload – activities that require direct teacher participation	50	2
Student workload – practical activities	80	3

Basic references	Fryxell J. M., Sinclair A. R. E., Caughley G. 2014. Wildlife Ecology, Conservation, and Management. Wiley Blackwell 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

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