

## COURSE DESCRIPTION CARD

Faculty of Civil Engineering and Environmental Sciences										
Field of study								Degree level and programme type	BSc.	
Specialization / diploma path								Study profile	Practical profile	
Course name	Forest applied botany							Course code	IS-FF-00025S	
								Course type	Erasmus	
Forms and number of hours of tuition	L	C	LC	P	SW	FW	S	Semester	Summer	
	30			20	25			No. of ECTS credits	5	
Entry requirements	Ecology									
Course objectives	The assumption of the course program is to provide botanical knowledge on systematics of the world of plants and the principles of recognition, description and classification of plant communities in application to the needs of forestry. The aim of the course is to familiarize with the basics of taxonomy and hierarchical review of taxa of forest telom plants as well as the basics of identification of plant communities. The methods of field researches of plant communities. Biology of woody and herbaceous plant species characteristic of forest communities..									
Course content	Fundamentals of vascular plant systematics, nomenclature and principles of plant classification. Systematics of herbaceous vascular plants, trees and shrubs in lowland forests. Distribution, ecological requirements and characteristics and biology of individual species of coniferous and angiosperm trees and shrubs. Methods of reproduction of vascular plants, mechanisms of inheritance of traits. Basic concepts used in phytosociology. Braun-Blanquet syntaxonomic system. Phytosociological methods of classification and describing plant communities. Review and characteristics of plant communities. Plant communities dynamics.									
Teaching methods	Lecture, exercises, presentation									
Assessment method	Lecture - written tests; project, specialization workshop - project and report evaluation									
Symbol of learning outcome	Learning outcomes								Reference to the learning outcomes for the field of study	
LO1	The student knows the morphological structure and biology of forest and vascular plants as well as mechanisms of inheritance of traits.								L1P_W05	
LO2	The student knows the names, systematics and classification of vascular plants								L1P_W05	
LO3	The student knows the ranges of forest-forming species								L1P_W05	
LO4	Student is able to identify plants in nature								L1P_U01	

<b>L05</b>	The student classifies and discusses all forest complexes, classifies and discusses the forms of dynamics of forest communities. Is able to use methods to describe plant communities	L1P_U02, L1P_U11	
<b>Symbol of learning outcome</b>	<b>Methods of assessing the learning outcomes</b>	<b>Type of tuition during which the outcome is assessed</b>	
<b>L01</b>	final test for lectures, project and reports evaluation	L, P, SW	
<b>L02</b>	final test for lectures, project and reports evaluation	L, P, SW	
<b>L03</b>	final test for lectures	L	
<b>L04</b>	project and reports evaluation	P, SW	
<b>L05</b>	project and reports evaluation	P, SW	
<b>Student workload (in hours)</b>		<b>No. of hours</b>	
<b>Calculation</b>	Participation in the lectures	30	
	Participation in the project classes	25	
	Participation in consultations	20	
	Preparation of projects and reports	15	
	Preparation for passing the final test	20	
	Preparation of the report of fieldwork	15	
	<b>Total:</b>	125	
<b>Quantitative indicators</b>		<b>Hours</b>	<b>No. of ECTS credits</b>
<b>Student workload – activities that require direct teacher participation</b>		82	3,3
<b>Student workload – practical activities</b>		75	3
<b>Basic references</b>	Mauseth J. D. 2017. Botany: An Introduction to Plant Biology. Jones & Barlett Learning		
<b>Supplementary references</b>	Seneta W., Dolatowski J. Dendrologia. Wyd. Naukowe PWN, Warszawa, 2008 [in Polish]. Bugala W. Drzewa i krzewy. PWRiL, Warszawa, 2000 [in Polish].		
<b>Organisational unit conducting the course</b>	Faculty of Civil Engineering and Environmental Sciences	<b>Date of issuing the programme</b>	
<b>Author of the programme</b>	Dan Wołkowycki, PhD	01.03.2020	

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