COURSE DESCRIPTION CARD

<table>
<tr><td colspan="11">Faculty of Civil Engineering and Environmental Sciences</td></tr>
<tr><td>Field of study</td><td colspan="5"></td><td colspan="2">Degree level and programme type</td><td colspan="2"></td></tr>
<tr><td>Specialization / diploma path</td><td colspan="5"></td><td colspan="2">Study profile</td><td colspan="2"></td></tr>
<tr><td rowspan="2">Course name</td><td colspan="5" rowspan="2">Forest applied botany</td><td colspan="2">Course code</td><td colspan="2">IS-FF-00025W/S</td></tr>
<tr><td colspan="2">Course type</td><td colspan="2">Erasmus</td></tr>
<tr><td rowspan="2">Forms and number of hours of tuition</td><td>L</td><td>C</td><td>LC</td><td>P</td><td>SW</td><td>FW</td><td>S</td><td colspan="2">Semester</td><td colspan="2">summer or winter</td></tr>
<tr><td>30</td><td></td><td></td><td>20</td><td>25</td><td></td><td></td><td colspan="2">No. of ECTS credits</td><td colspan="2">5</td></tr>
<tr><td>Entry requirements</td><td colspan="10">Ecology</td></tr>
<tr><td>Course objectives</td><td colspan="10">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..</td></tr>
<tr><td>Course content</td><td colspan="10">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.</td></tr>
<tr><td>Teaching methods</td><td colspan="10">Lecture, exercises, presentation</td></tr>
<tr><td>Assessment method</td><td colspan="10">Lecture - written tests; project, specialization workshop - project and report evaluation</td></tr>
<tr><td>Symbol of learning outcome</td><td colspan="8">Learning outcomes</td><td colspan="2">Reference to the learning outcomes for the field of study</td></tr>
<tr><td>LO1</td><td colspan="8">The student knows the morphological structure and biology of forest and vascular plants as well as mechanisms of inheritance of traits.</td><td colspan="2">L1P_W05</td></tr>
<tr><td>LO2</td><td colspan="8">The student knows the names, systematics and classification of vascular plants</td><td colspan="2">L1P_W05</td></tr>
<tr><td>LO3</td><td colspan="8">The student knows the ranges of forest-forming species</td><td colspan="2">L1P_W05</td></tr>
<tr><td>LO4</td><td colspan="8">Student is able to identify plants in nature</td><td colspan="2">L1P_U01</td></tr>
<tr><td>LO5</td><td colspan="8">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</td><td colspan="2">L1P_U02, L1P_U11</td></tr>
<tr><td>Symbol of learning outcome</td><td colspan="8">Methods of assessing the learning outcomes</td><td colspan="2">Type of tuition during which the outcome is assessed</td></tr>
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LO1	final test for lectures, project and reports evaluation	L, P, SW
LO2	final test for lectures, project and reports evaluation	L, P, SW
LO3	final test for lectures	L
LO4	project and reports evaluation	P, SW
LO5	project and reports evaluation	P, SW

Student workload (in hours)		**No. of hours**
Calculation	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
	Total:	125

Quantitative indicators	**Hours**	**No. of ECTS credits**
Student workload – activities that require direct teacher participation	82	3,3
Student workload – practical activities	75	3

Basic references	Mauseth J. D. 2017. Botany: An Introduction to Plant Biology. Jones & Barlett Learning	
Supplementary references	Seneta W., Dolatowski J. Dendrologia. Wyd. Naukowe PWN, Warszawa, 2008 [in Polish]. Bugała W. Drzewa i krzewy. PWRiL, Warszawa, 2000 [in Polish].	
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