Faculty of Civil and Environmental Engeneering					
Study programme:	**Landscape Architecture**		Degree level: full-time/part-time programme:		**Bachelor's degree**
Specialization	**common module**		Diploma path:		**-**
Module name:	**Vegetation cover I (Dendrology)**				
Module type:	**obligatory**	Semester: **2**	ECTS **4**	Module ID:	**AK1210**
No. of hrs in semester:	L - 15 C - 15 LC- 0 P- 0 SW- 30				S- 0
Prerequisites:	*Complete with prerequisites or "-"*	*Botany and plant physiology, Ecology*			
Teaching methods:	*lecture, project (including area workshop)*	Assessment:	*Evaluation must be relevant to the intended learning outcomes*		
		lecture - colloquium; specialization workshop - colloquium, evaluation of participation and preparation to the classes, evaluation of reports and home works; field class - evaluation of reports			
Aims and objectives:	*Knowledge on diversity of trees and shrubs species used for green areas. Properties of ecological habitat requirements, aesthetic values, the role and possibilities of the use of trees and shrubs on green areas. Education of practical skills to recognize and identification of different species and forms of trees and shrubs. Education how to select trees and shrubs, depending on conditions, expected results, effects and needs.*				
Module content:	*Taxonomy and nomenclature of woody plants. Morphology, anatomy and physiology of trees and shrubs. Coniferous and deciduous trees and shrubs: a systematic review of species diversity, distinctive features, environmental characteristics, habitat requirements, values, propagation and cultivation. Rules practical identification of species, varieties and forms of trees and shrubs. Trees and shrubs as part of the garden composition. The use of trees and shrubs on the various types of green areas. Rules for the selection of tree species for different types of applications.*				
Learning outcomes	*Write min. 4, max. 8 learning outcomes in the following order: knowledge - skills - competences. Each learning outcome must be verifiable.*		*Relevance to the programme learning outcomes*		
LO1	student knows the rules of nomenclature of plants		K_W01		
LO2	student has knowledge on the diversity, structure and functions of trees and shrubs		K_W02		
LO3	student knows the characteristics, needs and values trees and shrubs		K_W05		
LO4	student is able to identify the species, forms and varieties of trees and shrubs		K_U01, K_U07		
LO5	student knows how to select trees and shrubs, depending on the conditions and needs		K_U03, K_U08, K_U14, K_K05		
LO6	student can use trees and shrubs in the garden compositions		K_U03, K_U08, K_U14		

LO7				
LO8				
student workload	lecture attendance		15 x 1h	15
	participation in specialization workshops		15 x 2h	30
	preparation to the workshops		15 x 1h	15
	work on reports		10 x 2h	20
	participation in student-teacher sessions related to the project		5 x 1h	5
	preparation for and participation in colloquium			15
			TOTAL:	100

quantitative indicators	Student workload - activities that require direct teacher participation	53	ECTS
			2
	Student workload - practical skills activities	78	3

basic references:	*Dirr M. A. Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics …, Stipes Publ., Champaigne, 1998*

supplementary references:	*1. Seneta W., Dolatowski J. Dendrologia. Wyd. Naukowe PWN, Warszawa, 2008 [in Polish]. 2. Bugała W. Drzewa i krzewy. PWRiL, Warszawa, 2000 [in Polish].*

learning outcomes	*methods of assessing learning outcomes*	type of class (if more than one) where the outcomes are assessed
LO1	verification preparation for classes, evaluation of reports, colloquia	L, SW
LO2	verification preparation for classes, evaluation of reports, colloquia	L, SW
LO3	verification preparation for classes, evaluation of reports, observation of work in the classroom, colloquia	SW
LO4	verification preparation for classes, evaluation of reports, observation of work in the classroom, colloquia	SW
LO5	verification preparation for classes, evaluation of reports, observation of work in the classroom, colloquia	SW
LO6	verification preparation for classes, evaluation of reports, observation of work in the classroom, colloquia	SW
LO7		
LO8		
Department:	Department of Environmental Protection	Group instructors:	Dan Wołkowycki, Małgorzata Krasowska

Date:	01. 02. 2012	Coordinator:	dr. Dan Wołkowycki

L - lecture   C - class   LC - laboratory class   P-project
SW - specialization workshop   S - seminar