

NAME OF THE COURSE		Horticulture and Botanical Gardens				
Code	PMB416	Year of study	3			
Course teacher	Associate Professor Mirko Ruščić, PhD	Credits (ECTS)	2			
Associate teachers		Type of instruction (number of hours)	L	S	E	F
			15			15
Status of the course	Elective	Percentage of application of e-learning				
COURSE DESCRIPTION						
Course objectives	The use of knowledge and skills for the practical cultivation of all types of autochthonous and alohtonic plants in culture, gardens and botanical gardens, including breeding, breeding and seedling, cultivation of ornamental, medicinal, aromatic, poisonous, protected, endemic plants, vegetables, fruit, grapevines, plant nutrition, garden ecology, shaping and aesthetics and garden landscaping, plant diseases and pests, and beekeeping. Learn students about the rule of definition and plants, the seed bank design and the herbal collection.					
Course enrolment requirements and entry competences required for the course	Passed exam in General Botany					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>Student will be able to:</p> <ol style="list-style-type: none"> 1. Cultivate native and alohton species in the garden and botanical garden 2. Propagate plants for growing in the garden 3. Plant the plants 4. design a botanical garden according to the ecological requirements of bilakis and landscaping aesthetics 5. Identify pests on plants and find ecological solutions for their removal 6. Apply practical beekeeping in the garden 7. Identify invasive species in the gardens and design ways of their removal 8. Create a seed bank and a herbal collection 9. Make a composting site in the garden 10. to design and design a botanical garden plan for the climatic area 11. Visit botanical gardens in Croatia and beyond Croatia 12. Create databases on botanical gardens and establish semen exchange between gardens 					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Lectures: / Exercises:</p> <ol style="list-style-type: none"> 1. Teaching of the subject will be performed in the botanical garden of PMF, Marjan, defined by the object purpose and learning outcomes. 2. Part of teaching will be performed in a wider area for the collection of plant material. 3. It is also planned to visit other botanical gardens and institutes in Croatia and outside Croatia. 					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input checked="" type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			

	<input checked="" type="checkbox"/> field work					
Studentresponsibilities	Attendance at least 70%. Include two colloquia or a written exam					
Screening student work(name the proportion of ECTS credits for eachactivity so that the total number of ECTS credits is equal to the ECTS value of the course)	Class attendance	0,5	Research		Practical training	0,5
	Experimental work	0,5	Report		Field work	0,5
	Essay		Seminar essay		(Other)	
	Tests		Oral exam	0,5	(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Monitoring and evaluation of the work of students in the field and in practice					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Noordhuis, T.K.(1995) Garden, a great guide for the whole year. Veble commerce (Croatian edition), Zagreb.			1		
	Mchoy, P. (2004) Garden design. Ljevak, Zagreb					
	Edwards, J. (2011) Gardening techniques. Ljevak, Zagreb					
	Kukoč, L. (2014) Mediterranean Garden. Ljevak, Zagreb					
	Harald, B. (2010) Landscaping and Gardening. Ljevak, Zagreb			1		
	Nikolić, T. (2013) Systematics of botany. Alfa, Zagreb Alfa, Zagreb			2		
	Nikolić, T. (2013) Practical Systematic Botany, Alfa, Zagreb			2		
	Nikolić, T. (ed.) (2017) Flora Croatica Database / Flora Croatica Database. On-Line URL: http://hirc.botanic.hr/fcd . Botanical Institute, Faculty of Science and Mathematics, University of Zagreb			2		
	Javorka, S., Csápody, V. (1975) Iconographia florum partis Austro-orientalis Europae centralis. Académia Publishing, Budapest					
	Pignatti, S. (1982) Flora d'Italia I-III.Edagricole, Bologna					
Nikolić T. (1996): Herbaric Manual. Školska knjiga, Zagreb.			1			
Optional literature (at the time of	Tutin, T.G., Heywood, V.H., Burges, N. A., Moore, D.M., Valentine, D.H., Walters, S.M. Webb D.A., (1968-1980) Flora Europaea 1-5. University Press, Cambridge					

<p>submission of study programme proposal)</p>	<p>Domac, R. (1994) Flora Hrvatske, Plant Determination Manual. Školska knjiga, Zagreb www.horti-kultura.hr Nikolić, T (2006) Flora, Inventory Handbook and Condition Monitoring. State Institute for Nature Protection, Zagreb Nikolić T (ed.) (2008c) Flora Croatica Database / Flora Croatica Database. On-Line URL: http://hirc.botanic.hr/fcd/invazivneVrste. Botanical Institute. Faculty of Natural Sciences and Mathematics, University of Zagreb</p>
<p>Quality assurance methods that ensure the acquisition of exit competences</p>	<p>Active participation in teaching. Student Survey of Evaluation of Teacher and Course Work.</p>
<p>Other (as the proposer wishes to add)</p>	<p>Consultations are held in consultation with students by prior notice orally or by e-mail: mrus@pmfst.hr</p>