

SYLLABUS (MODULE-ERASMUS+)

Course/module (as specified in the approved curriculum for the field of study) Weed biology and control		ECTS 3		Catalogue number HORT 7.2		
Name in Polish Biologia i zwalczanie chwastów						
Head of course/module dr inż. Alina Kałużewicz						
Unit(-s) providing the course/module (Institute/Department) Department of Vegetable Crops						
Field of study Horticulture		Level II – master studies		Profile Academic-general		
				Semester summer		
TYPE OF CLASSES/LECTURES AND THE NUMBER OF HOURS (organised classes/lectures and self-study)						
Type of studies: full-time			Type of studies: extramural			
- lectures	10	- lectures			X	
- classes	10	- classes			X	
-self-study	55	-				
		-				
		-				
-		- Self-study			X	
Total number of hours:		75	Total number of hours:		X	
OBJECTIVE OF COURSE/MODULE						
Acquiring knowledge of the biology of weeds and the methods of weed control						
TEACHING METHODS						
Lecture supported by multimedia presentation, exercises						
LEARNING OUTCOMES				Reference to field outcomes	Reference to area outcomes	
Knowledge	Students: E1 - have general knowledge of horticultural methods including weed control; E2 - know basic technologies of field cultivation of horticultural plants and weed control methods; E3 - know the principles of integrated and ecological horticultural production including weed control in horticultural crops.			<i>Not applicable</i>	<i>Not applicable</i>	
	Skills	Students: E4 - can choose and apply appropriate methods of weed control in horticultural crops; E5 - can identify and analyse phenomena that determine the health of horticultural plants and is capable of influencing their behavior; E6 - have the ability to undertake activities that solve problems of horticultural production.				
		Social competences	Students: E7 - are aware of the importance of social, professional and ethical responsibility for the quality of horticultural production; E8 - are aware of the risks of horticultural production for the environment; E9 - are aware of the social and ethical aspects of pesticide use.			

Methods to verify learning outcomes Test Written exam	Outcome Reference Numbers E1, E2 E1, E2
TEACHING CONTENT	
<p>Content of lectures: weed species and biology; reasons for weed infestation; harmfulness of weeds; the methods of weed control; factors affecting the effectiveness of the herbicide; reasons for herbicide selectivity; weed control in organic cultivation</p> <p>Content of exercises description of weeds occurring in horticultural cultivation; methods of using herbicide; calculation of doses of herbicide; using biotest, writing instructions of weed control in chosen vegetable crops cultivation</p>	
Forms and criteria for passing of course/module Positive assessment of the exercises Exam	Percentage of final mark 100%
LIST OF LITERATURE	
Basic literature <ol style="list-style-type: none"> 1. Recent Advances in Weed Management, Chapter: 11 (Integrated Weed Management in Horticultural Crops), Publisher: Springer, Editors: Bhagirath S. Chauhan and Gulshan Mahajan, 2014. pp.239-254 2. Dittmar P., Boyd N. Weed Management Principles in Commercial Vegetable Production. http://edis.ifas.ufl.edu 3. www.sare.org/.../Books/.../The-Role-of-Crop-Rotation-in-Weed-Management 4. http://www.bioone.org/loi/wees 	