Course name:	Propagation of ornamental plants	ECTS	3
Translation of the course name into English:	-		
Study field:	General Horticulture		

Language of lectures:	English				Study level:	Master of science
Study form: 🗵 stationary	Status of	primary	□ obligatory	Semester num	iber: 2	🗵 winter semester
🗆 extramural	lectures:	□ directional	☑ facultative			□ spring semester
Academic year from which the description applies		2021/2022	Catalog number:	OGR-02-S-2716.27 ang		

Course coordinator:	Prof. Andrzej Pacholczak				
Lecturers:	Prof. Andrzej Pacholczak				
Unit running the course:	Department of Ornamental Plants				
Unit ordering the course:	Faculty of Horticulture				
Assumptions, objectives and description of the course:	The ornamental nursery production is the fastest growing discipline of horticulture therefore practice needs and will need skilled specialists able to prepare plant material for further production therefore the aim of the subject will be to give students basic knowledge of principles of plant propagation. The purpose of practical training is to develop by the student the skills in basic propagation methods of ornamentals and to prepare her/him to work in a nursery, plant collections or in vitro laboratory. Practical classes will be performed in the nursery and greenhouse of DOP – students will be shown all the propagation methods and perform themselves all these which will be possible to do during the study cycle.				
Didactic forms, number of hours:	Lectures: hours 15 Practical classes: hours 15				
Teaching methods:	Plant collections, greenhouse and nursery of DOP, tools needed to learn all the propagation techniques Lectures – PP presentations containing the above material				
Formal requirements and prerequisites:	Botany, Plant physiology, dendrology				
Learning outcomes:	Knowledge: W_01 - knows the specific methods of propagation of woody plants in Polish nurseries W_02 - knows the conditions suitable for propagation ornamental shrabs and trees	Skills: U_01 - knows how to make a cuutings and perform a grafting U_02 - can create conditions suitable for seed sowing and to perform different presuming treatments U_03 - is able to work in a team	Competences: K_01 - is open to new technological solutions		
The way of verification of learning outcomes :	Efect W_01, W_02, U_01, U_02, K_01 - evaluation test Efect W_01, W_02, U_01, U_02, U_03, K_01 - evaluation of manual actions during plant propagation				
Form of documentation of achieved learning outcomes :	Results of the evaluation test				
Elements and weights affecting the final grade:	Test results – 50%, evaluation of manual action – 50%				
Place of classes:	Teaching rooms, laboratory, nursery and greenhouse				
 Hartmann H.T., Kester D.E., Davie Kroin J. 2009. Propagation of plant 437-453. Macdonald B. 1989. Practical woo 	N. 1988. Adventitious root formation in cutting es F.T., Geneve R.L. 2002. Plant propagation. I ts from cuttings using rooting solutions by folia dy plant propagation for nursery growers. Tim dobne – wybrane zagadnienia. Agencja Promo	Principles and practices. Prentice Hall. ar methods. Combined Proceedings, Interr ber Press, Portland, Oregon.	, C		

Estimated total number of student work hours (contact and own work) necessary to achieve the assumed learning	95 h	
outcomes - on this basis, complete the ECTS field:		
The total number of ECTS points that a student receives in classes requiring direct participation of academic teachers or	1,5 ECTS	
other lecturers:	1,5 2013	

Table of compliance of the directional learning outcomes with the effects of the course:

Effect category	Learning outcomes for the course:	Reference to learning outcomes specific for study program on particular study field (direction)	The impact of course on the directional
			effect *)
Knowledge - W_01	knows the specific methods of propagation of woody plants in	K_W04	3
	Polish nurseries		
Knowledge - W_02	knows the conditions suitable for propagation ornamental shrabs	K_W01; K_W02; K_W05	2
	and trees		
Skills - U_01	knows how to make a cuutings and perform a grafting	K_U01	3
Skills - U_02	can create conditions suitable for seed sowing and to perform	K_U04	2
	different presuming treatments		
Skills - U_03	is able to work in a team	K_U11	1
Competences - K_01	is open to new technological solutions	W_K01	2