

Field or fields of study	Horticulture
Name of the training module	Alternative fruit plants
Language of teaching	English
Type of the training module	Optional
Level of study	full-time studies II level
Type of study	stationary
Year of study	II
Semester	3
Number of ECTS credits with a division into contact/noncontact	3 (1,88/1,12)
Title/degree, name and surname of the person in charge	dr hab. Iwona Szot, prof. uczelni
Unit offering the module	Institute of Horticulture Production
Aim of the module	Learn in English about the biology of growth and development of little-known fruit-bearing plants. Mastering knowledge in the field of cultivation technology of these plants and the possibility of their use in cultivation, arrangement of home gardens and the use of fruit in the human economy
Learning outcomes – the total number of learning outcomes may not exceed (4-6) for the module. The description of the intended learning outcomes that a student should achieve after the completion of the module should be provided. The outcomes for both lectures and classes should be presented	Knowledge:
	K1. The student has an extended knowledge of the occurrence of fruit plants less known in the natural environment.
	K2. He knows the rules of cultivation of the above-mentioned plants.
	K3. He has knowledge about the importance of less known plants, with edible fruits, in human nutrition
	Skills:
	S1. He can determine the requirements of various little-known species of fruit plants in relation to growing conditions and adapt cultivation methods
	S2. He is able to plan work on a farm producing the above-mentioned fruits, taking into account their ripening date, the length of the storage period, and then shelf life in trade
	S3. He can use the above-mentioned plants and their fruits in human economy, garden arrangement and landscaping
	Social competences
	S.C.1. He is aware that the effects of fruit production methods have an impact on the environment and human health
	S.C.2. He is aware that the cultivation of little-known fruit plants enables obtaining high-quality horticultural products and is an aesthetic element of the landscape shaped by man
Relating modular learning outcomes to field-specific learning outcomes	K1 – OG_W02 K2 - OG_W02, OG_W08 K3 - OG_W06, OG_W09 S1 - OG_U03

	S2 – OG_U06 S3 - OG_U07 S.C.1 - OG_K03 S.C.2 - OG_K04																																				
Relating modular learning outcomes to engineering outcomes	K1 - InzOG_W02 K2 - InzOG_W02, InzOG_W08 K3 - InzOG_W02, InzOG_W06 S1 - InzOG_U06 S2 - InzOG_U06 S3 - InzOG_U07																																				
Preliminary and additional requirements	horticulture, botany, basic English																																				
Contents of the training module	It includes knowledge of the cultivation of less known fruit plants, including the method of their propagation, establishment and management of plantations or orchards, taking into account the biological properties of these plants and their climatic and soil requirements. It presents the importance of these plants in the human economy (e.g. in the food, pharmaceutical or cosmetic industries), taking into account their health-promoting properties, as well as the possibility of using them in the arrangement of amateur gardens.																																				
Lists of basic and supplementary literature	Articles from international newspapers available on the website of the Lublin University of Life Sciences Library																																				
The intended forms/activities/teaching methods	Lecture, preparation and presentation of a multimedia presentation																																				
Methods of verification and documentation forms of the achieved learning outcomes	written test (K1-K4), assessment of the design task (K1-K4; S1-S3) evaluation of the presentation (SC 1, SC 2), evaluation of the substantive content of the presentation (K1-K4; S1-S3).																																				
Elements influencing the final grade	Written tests – 50% Oral presentation – 50%																																				
Balance of ECTS scores	<table><tr><td>Form of activity</td><td>Hours</td><td>ECTS score</td></tr><tr><td colspan="3">CONTACT HOURS</td></tr><tr><td>Lectures</td><td>30</td><td>1.2</td></tr><tr><td>Classes</td><td>15</td><td>0.6</td></tr><tr><td>Consultation</td><td>2</td><td>0.08</td></tr><tr><td>Total of contact hours</td><td>47</td><td>1.88</td></tr><tr><td colspan="3">NONCONTACT HOURS</td></tr><tr><td>Preparation for classes</td><td>8</td><td>0.32</td></tr><tr><td>Studying literature</td><td>10</td><td>0.4</td></tr><tr><td>Preparation of presentation</td><td>10</td><td>0.4</td></tr><tr><td>Total of noncontact hours</td><td>28</td><td>1.12</td></tr><tr><td>Total ECTS</td><td>75</td><td>3.0</td></tr></table>	Form of activity	Hours	ECTS score	CONTACT HOURS			Lectures	30	1.2	Classes	15	0.6	Consultation	2	0.08	Total of contact hours	47	1.88	NONCONTACT HOURS			Preparation for classes	8	0.32	Studying literature	10	0.4	Preparation of presentation	10	0.4	Total of noncontact hours	28	1.12	Total ECTS	75	3.0
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Workload in activities with direct participation of academic teachers	Participation in lectures – 30 h Participation in classes – 15 h Consultation – 2 h																																				