

**Załącznik do Uchwały nr 59/2020-2021
Senatu UP w Lublinie z dnia 25 czerwca 2021 r.**

Field or fields of study	Landscape Architecture
Name of the training module	Conventional and nonconventional methods of plant protection in urban area
Language of instruction	english
Type of the training module (obligatory/optional)	optional
Level of the training module	Full – time studies Level II
Year of study	I
Semester	1
Number of ECTS credits with a division into contact/noncontact	3 (1,56/1,44)
Title/degree, name and surname of the person in charge	dr hab. Marek Kopacki
Unit offering the subject	Plant Protection and Quarantine Department
Aim of the module	Understanding the role of pests in urban agrocenosis and learning the methods and legal aspects of their limitation.
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:
	1. knows and understands material from the field of natural sciences, agriculture and technology useful for solving complex tasks in the field of plant protection in urban areas
	2. methods, techniques and materials used in landscape engineering and in interdisciplinary activities combining technical and biological solutions aimed at protecting the landscape and its resources
	...
	Skills:
	1. is able to assess the usefulness and possibility of using new achievements (techniques and technologies) in the field of landscape protection and design and improving the quality of human life
	2. assess the suitability of methods and techniques used in designing landscape architecture objects to solve plant protection problems
	...
	Social competences:
	1. is ready to perform professional roles responsibly, taking into account changing social needs, including: maintaining the ethos of the profession, observing and developing principles of professional ethics
Preliminary and additional requirements	Phytopathology, Entomology
Contents of the training module-a compact description of approx. 100 words	The specificity of urban agrocenosis and the potential for pestilence will be discussed. The general characteristics of the latest methods in plant protection will be determined, with particular emphasis on non-chemical methods. New technologies for using plant protection products in urbanized areas and legal aspects will be discussed.

	<p>It will be useful in predicting the appearance of pests. The ways and characteristics of the reduction of pests of fungi, insects, arachnids, birds and mammals in urban areas will be described.</p> <p>It will discuss the use of modern methods of protection of urbanized areas in order to maintain their biodiversity in accordance with the principles of integrated plant protection.</p>
Recommended and obligatory reading list	<p>1. Borecki Z. 2001. Nauka o chorobach roślin. PWRiL</p> <p>2. Boczek J. 2001. Nauka o szkodnikach roślin uprawnych. Wyd. SGGW.</p> <p>3. Łabanowski G., Soika G. 2010. Szkodniki ozdobnych drzew liściastych. Wyd. Plantpress</p> <p>4. Mańka M., 2011. Choroby drzew leśnych. PWRiL</p>
The intended forms/activities/teaching methods	Lecture, exercises, group work, project / presentation, discussion
Methods of verification and documentation forms of the achieved learning outcomes	<p>K1, K2 -Written testimony, S1, S2 - Presentation rating, SC1- Assessment of the student's teamwork, its activity and self-problem solving</p> <p>Teacher log, multimedia presentation on CD or paper version</p>
Elements and weights affecting the final grade	<p>Passing the lectures:</p> <p>1. K1, K2 – written tests (constituting 80% of the grade for passing)</p> <p>Grading scale in accordance with the Faculty Education Quality Book:</p> <p>Insufficient (2.0) – <51% of total points</p> <p>Satisfactory (3.0) – 51-60% of the total points</p> <p>Sufficient plus (3.5) – 61-70% of the total points</p> <p>Good (4.0) – 71-80% of the total points</p> <p>Good plus (4.5) – 81-90% of total points</p> <p>Very good (5.0) – 91-100% of the total points</p> <p>2. S1-S2, SC1 – project assessment (constituting 20% of the assessment)</p> <p>1) the student demonstrates a sufficient (3.0) degree of knowledge or skills when he or she obtains from 51 to 60% of the total points determining the maximum level of knowledge or skills in a given subject (respectively, in the case of a partial pass - its part),</p> <p>2) the student demonstrates a sufficient plus (3.5) degree of knowledge or skills when he or she obtains from 61 to 70% of the sum of points determining the maximum level of knowledge or skills in a given subject (respectively - its part),</p> <p>3) the student demonstrates a good degree (4.0) of knowledge or skills when he obtains from 71 to 80% of the total points determining the maximum level of knowledge or skills in a given subject (respectively - its part),</p> <p>4) the student demonstrates a plus good degree (4.5) of knowledge or skills when he or she obtains from</p>

	81 to 90% of the sum of points determining the maximum level of knowledge or skills in a given subject (respectively - its part), 5) the student demonstrates a very good degree (5.0) of knowledge or skills when he or she obtains more than 91% of the sum of points determining the maximum level of knowledge or skills in a given subject (respectively - its part).																																												
Balance of ECTS credits	<table><tr><td>Form of classes</td><td>Number of contacts</td><td>hours</td><td>ECTS points</td></tr><tr><td>lectures</td><td>24</td><td></td><td>0,96</td></tr><tr><td>classes</td><td>6</td><td></td><td>0,24</td></tr><tr><td>examination</td><td>4</td><td></td><td>0,16</td></tr><tr><td>passing the project</td><td>3</td><td></td><td>0,12</td></tr><tr><td>consultation</td><td>2</td><td></td><td>0,08</td></tr><tr><td colspan="4">Number of non-contact hours</td></tr><tr><td>Project preparation</td><td>15</td><td></td><td>0,60</td></tr><tr><td>Exam preparation</td><td>10</td><td></td><td>0,40</td></tr><tr><td>Study of literature</td><td>11</td><td></td><td>0,44</td></tr><tr><td>Total</td><td>75</td><td></td><td>3,00</td></tr></table>	Form of classes	Number of contacts	hours	ECTS points	lectures	24		0,96	classes	6		0,24	examination	4		0,16	passing the project	3		0,12	consultation	2		0,08	Number of non-contact hours				Project preparation	15		0,60	Exam preparation	10		0,40	Study of literature	11		0,44	Total	75		3,00
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Workload in activities with direct participation of academic teachers	-participation in lectures – 24h - participation in classes – 6h -presence at the examination – 4h -participation in passing the project 3 h. -participation in consultation hours – 2h																																												
Reference of module outcomes to field study outcomes: Module outcomes code – Field study outcomes code	K1 – AK_W01 K2 – AK_W07 S1 - AK_U08 S2 - AK_U13 SC1 - AK_K06																																												