Karta opisu zajęć (sylabus)

Field of study or fields of study	Plant Protection and Phytosanitary Control
Name of the training module, also its name in English	Consulting in plant protection
Language of lecture	English
Type of training module	optional
Study level	second degree
Form of studies	stationary
Year of study for the major	II
Semester for the field of study	3
Number of ECTS points broken down into contact / non-contact	3 (1.7/1.3)
Title / rank, name and surname of the person responsible for the module	Dr hab. Agnieszka Jamiołkowska, Assos.prof.
Unit offering the subject	Department of Plant Protection
Purpose of the module	The aim is to present the students the latest methods and means used in the protection of horticultural plants and their practical application. The student will acquire the ability to advise on the proper selection and use of plant protection products depending on the cultivated plants and phytosanitary problems in the field.
Learning outcomes for the module are a description of the knowledge, skills and social competences that the student will achieve after completing the module.	Knowledge:
	1. student has the knowledge of modern methods in plant protection
	2. student has the knowledge of biological protection factors and relationships between pest and biological agent
	Skills:
	1. student search specialist sources for up-to-date information on plant protection (European data, internet sources)
	2. knows advises on plant protection methods (including safety methods, sanitary problems)
	Social competence:
	1. student knows the ethical aspects in practical using the crop protection methods
	2. student can works in a team that performs appropriate functions
Prerequisites and additional requirements	Phytopathology, entomology
Curriculum content of the education module	The student will learn the modern and safety methods used in the protection of horticultural plants; learn about current (authorized) pesticides and methods of their safe use, taking into integrated protection system. Theoretical and practical

<table>
<tr><td></td><td>principles of proper composing of plant protection programs will be presented.</td></tr>
<tr><td>List of basic and supplementary literature</td><td>Internet sources:
https://ec.europa.eu/food/plants/pesticides_en
https://www.frac.info/fungicide-resistance-management
Pesticide safety data sheets – internet sources</td></tr>
<tr><td>Planned forms / activities / didactic methods</td><td>Multimedia lecture, exercises with specialist materials, implementation and presentation of the project,</td></tr>
<tr><td>Methods of verification and forms of documenting the achieved learning outcomes</td><td>K1, K2: written test (60% of the grade for passing the exercises)
The grading scale in accordance with the Faculty's Instruction No. 1.0.
S1-S2, Sc1-Sc2 - assessment of the practical test, assessment of the presentation and participation in the discussion (40% of the assessment for completing the exercises)
Forms of documenting: presentation in paper form; teacher's journal</td></tr>
<tr><td>Balance of ECTS points</td><td>
<table>
<tr><td>Form of classes</td><td>Number of hours</td><td>ECTS</td></tr>
<tr><td colspan="3">CONTACT</td></tr>
<tr><td>Lectures</td><td>15</td><td>0.60</td></tr>
<tr><td>Courses</td><td>20</td><td>0.80</td></tr>
<tr><td>Consultations</td><td>3</td><td>0.12</td></tr>
<tr><td>Completion of the project</td><td>5</td><td>0.20</td></tr>
<tr><td>Total contact</td><td>43</td><td>1.72</td></tr>
<tr><td colspan="3">NON-CONTACT</td></tr>
<tr><td>Preparation for courses</td><td>10</td><td>0.40</td></tr>
<tr><td>Preparation of project</td><td>10</td><td>0.40</td></tr>
<tr><td>Study of literature</td><td>12</td><td>0. 0</td></tr>
<tr><td>Total non-contact</td><td>32</td><td>1.28</td></tr>
<tr><td>Total ECTS</td><td>75</td><td>3.00</td></tr>
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<tr><td>Workload related to the activities requiring the direct participation of an academic teacher</td><td>- participation in lectures - 15 hours;
- participation in exercises - 20 hours;
- passing the project - 5 hours;
- consultation - 3 hours;
Total 43 hours – 1,7 ECTS</td></tr>
<tr><td>Relating modular effects to directional effects</td><td>K1 – OR_W02
K2 – OR_W03
S1 – OR_U01
S2 – OR_U03
Sc1 – OR_K03
Sc2 - OR_K01</td></tr>
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