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| Module code | M_WE_SEM2 AGRO |
| Field of study | Veterinary medicine |
| Module name, also the name in English | Agronomy Agronomia |
| Language of instruction | English |
| Module type | Mandatory |
| Level of studies | Long-cycle master's degree studies |
| Form of study | Full-time |
| Year of study in the field of study | 1 |
| Semester of study in the field of study | 2 |
| ECTS credits, divided into contact/non-contact hours | 1 (0,8/0,2) |
| Academic title/degree, name of the person responsible for the module | Prof. dr hab. Aleksandra Badora |
| Unit teaching the course | Department of Agricultural and Environmental Chemistry |
| Module objective | The aim of the course is to familiarize students with the basic groups of crops, their properties, purpose and to acquire the ability to assess the role of processes occurring in nature and in human life. The aim is also to prepare students to evaluate selected plant and animal properties of raw materials and food products, as well as to familiarize students with sources of information about agricultural consulting and the role of this institution in agricultural production. |
| The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module. | Knowledge: |
| | K1. The student can describe the most important groups of crops and justify the benefits and risks related to their quality and purpose. The student can also give the relationship between the quality and health of human life in the context of nature protection and in the context of rational use of the benefits of the environment. |
| | Skills: |
| | S1. The student is able to define and describe changes in the sources and amounts of produced raw materials and plant products and to justify the benefits and risks associated with it. The student is able to independently analyze various phenomena occurring in nature on the basis of the acquired knowledge. |
| | Social competences: |
| | Sc1. The student is aware of the importance of various groups of plants in the basic branches of human economy and their practical application in everyday human life. The student is able to deduce, justify and propose specific actions in the field of nature protection aimed at improving the quality of agriculture functioning in the environment |
| Prerequisites and additional requirements | |

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| Module program content | It covers knowledge of plant cultivation, the significance and use of fodder plants in animal nutrition, systems of soil cultivation, natural factors shaping crop and its quality (soil, climate, terrain, biocenosis), agrotechnical factors (sowing, variety, fertilisation, protection, harvesting), quality and usefulness of agricultural production space in terms of plant and animal production, farming systems (conventional, organic, balanced, integrated farming), characterisation, usefulness and agricultural products management, crop rotation, especially fodder rotations (fodder and barnyard, alternating – rotation pasture-meadow), the impact of agriculture on the state and quality of soil and water - especially eutrophication of the environment, the principles of mineral and natural fertilisation in accordance with the "Programme of measures to reduce nitrate pollution of waters from agricultural sources and to prevent further pollution". - Journal of Laws of the Republic of Poland dated 12 July 2018, i. 1339. | | |
| List of core and supplementary literature | <ol style="list-style-type: none"> 1. Neil O`Sullivan , James D. Libbin Agriculture. Career Paths. Wyd. Express Publishing, Gandalf.com.pl 2. Craig C. Sheaffer, Kristine M Moncada . Introduction to Agronomy: Food, Crops, and Environment 2nd Edition. 2019. | | |
| Planned forms/activities/teaching methods | Lecture, multimedia presentation, discussion, consultation. | | |
| Verification methods and ways of documenting the achieved learning outcomes. | <p>K1 - written test - single-choice questions (1 point) and some open-ended questions (3 or 4 points) Punctuation: 32-30p. - very good; 29,5-27,5p.- good plus; 27-25p. - good; 4,5- 22,5p.- sufficient plus ; 22- 20p -sufficient; 19,5p. and less – no passing exam.</p> <p>S1- - preparation of two presentations by each student and discussion on them during the classes. Sc1 – student attendance at lectures.</p> | | |
| ECTS credits | CONTACT | | |
| | | <i>Hours</i> | <i>ECTS credits</i> |
| | Lectures | 15 | 0.5 |
| | Consultations | 1 | 0.15 |
| | Examination / retake examination | 1 | 0.15 |
| | TOTAL contact hours | 17 | 0.8 |
| | NON-CONTACT | | |
| | preparation for the exam | 3 | 0.2 |
| | TOTAL non-contact hours | 3 | 0.2 |
| | The workload of activities that requires direct participation of an academic teacher | attendance at lectures | 15 |
| | Consultations | 1 | 0.15 |
| | Examination / retake examination | 1 | 0.15 |
| | TOTAL with direct involvement of the teacher | 17 | 0.8 |
| Relation of module learning outcomes to course learning outcomes. | <p>K1 – B.W9+; S1 – A.U23+ Sc1 – K1++;</p> | | |

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| Elements and values affecting the final grade | <ul style="list-style-type: none">- presence at the lectures – 10%- 2 presentations of each students and discussion – 20%- final test of lectures.- 70% |
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