| Module code | M_WE_SEM10 PW 1H/2H ANAL CHZGK | | |
|---|---|--|--|
| Field of study | Veterinary medicine | | |
| Module name, also the name in English | Clinical analytics of farm animals and horses diseases | | |
| | Analityka kliniczna w chorobach zwierząt gospodarskich I koni | | |
| Language of instruction | English | | |
| Module type | elective | | |
| Level of studies | Long-cycle master's degree studies | | |
| Form of study | Full-time | | |
| Year of study in the field of study | VI | | |
| Semester of study in the field of study | XI | | |
| ECTS credits, divided into contact/non- | 1 (0.6/0.4) | | |
| contact hours | | | |
| Academic title/degree, name of the | Dr Jan Marczuk | | |
| person responsible for the module | | | |
| Unit teaching the module | Department and Clinic of Internal Animal Diseases | | |
| Module objective | The aim of the course is to provide students with knowledge on | | |
| | the proper selection of laboratory tests based on the data from | | |
| | the patient's history and clinical examination, and the correct | | |
| | interpretation of the results obtained. Students also learn the | | |
| | practical skills to perform basic laboratory tests and correctly | | |
| | interpret the results obtained in terms of the animal's clinical | | |
| | condition. | | |
| The learning outcomes for the module | Knowledge: | | |
| include a description of the knowledge, | K1. Knows the general mechanisms that result in damaging | | |
| skills and social competences that the | organs and body systems and lead to organ failure. | | |
| student will gain after completing the | K2. Knows basic laboratory tests and their usefulness in clinical | | |
| module. | practice | | |
| | K3. Knows and appropriately interprets clinical data along with | | |
| | laboratory and ancillary test results | | |
| | Skills: | | |
| | S1. Knows how to properly collect material for testing, deliver it | | |
| | to the laboratory, and perform basic laboratory testing. | | |
| | S2. Knows how to correctly interpret laboratory test results in | | |
| | livestock and horses in terms of the animal's clinical condition | | |
| | S3. Knows how to find, analyse, and use the necessary animal | | |
| | analytical data from a variety of sources and in a variety of forms | | |
| | Social competences: | | |
| | C1. Is prepared to demonstrate responsibility for decisions made | | |
| | about people and animals | | |
| | C2. The student is willing to continuously improve his knowledge | | |
| | and skills in laboratory testing. | | |
| Prerequisites and additional | according to the sequence of subjects | | |
| requirements | | | |

| Module program content | Practical classes: | | | | |
|-----------------------------------|---|---------------|--------------------|--|--|
| | Principles of collection, labelling, and transfer of material for | | | | |
| | laboratory testing; pre-analytical ar | d analytical | errors; laboratory | | |
| | testing apparatus, principles of biol | ogical mater | ials | | |
| | neutralisation; species and organ di | agnostic pro | files: hepatic, | | |
| | muscular, cardiac, skeletal; urine la | boratory test | ing, functional | | |
| | tests to evaluate the urinary system | serum enzy | matic activity | | |
| | parameters, testing of parameters | of metabolis | n: carbohydrate. | | |
| | fat protein acid-base balance endocrine testing mail order | | | | |
| | specialized laboratories: metabolic profiles of the herd: analysis | | | | |
| | of milk properties results (tabular charts) | | | | |
| List of core and supplementary | Core literature: | | | | |
| literature | 1. Jackson M.L.: Veterinary Clinical pathology. An introduction. | | | | |
| | Willey Blackwell Pub., 2007 | | | | |
| | 2. Scott R. R. Haskell; Blackwell's Five-Minute Veterinary Consult: | | | | |
| | Ruminant. Willey-Blackwel, 2009 | | | | |
| | 3. Thrall M.A., Weiser G., Allison R., Campbel T.W.; Veterinary | | | | |
| | hematology and clinical chemistry. Willey Blackwell | | | | |
| | 4. Duncan and Prasse's Veterinary Laboratory Medicine Clinical | | | | |
| | pathology. Willey Blackwell | | | | |
| Planned forms/activities/teaching | Multimedia presentations, laboratory classes, practical | | | | |
| methods | performance of analytical procedures, discussion, presentation | | | | |
| | and discussion of clinical cases | | | | |
| Verification methods and ways of | Knowledge – semester credit is earned by passing a single-choice | | | | |
| documenting the achieved learning | test. Allowable number of absences from classes - 1 absence. | | | | |
| outcomes. | Scale of grades: | | | | |
| | Very good 93 - 100% | | | | |
| | Good plus 85 - 92 % | | | | |
| | Good 78 - 84% | | | | |
| | Satisfactory plus 71 - 77% | | | | |
| | Satisfactory 63 -70% | | | | |
| | Skills - evaluation of independently performed analytical | | | | |
| | procedures by the instructor | | | | |
| | Competencies - participation in discussion, oral answer to a | | | | |
| | hypothetical problem-focused task. | | | | |
| ECTS credits | Contact hours | | | | |
| | Form of classes | Hours | ECTS credits | | |
| | Recitation classes | 2 | 0.07 | | |
| | Laboratory classes | 13 | 0.49 | | |
| | Test credit | 1 | 0.04 | | |
| | Total | 16 | 0.6 | | |
| | Non-contact hours | | | | |
| | Preparation for classes | 5 | 0.2 | | |
| | Literature review | 5 | 0.2 | | |
| | Total | 10 | 0.4 | | |

| The workload of activities that requires | Form of classes | Hours | ECTS credits |
|--|-----------------------------|-------|--------------|
| direct participation of an academic | Participation in recitation | 2 | 0.07 |
| teacher | classes | | |
| | Participation in laboratory | 13 | 0.49 |
| | classes | | |
| | Test credit | 1 | 0.04 |
| | consultations | | |
| | Total | 16 | 0.6 |
| Relation of module learning outcomes | K1 - B.W6 +++ | | |
| to course learning outcomes. | K2 – B.W5 ++ | | |
| | K3 – B.W4 ++ | | |
| | S1 - B.U2 ++ | | |
| | S2 - B.U3. ++ | | |
| | S3 - B.U7. +++ | | |
| | C1 – K1 ++ | | |
| | C2 – K7 +++, K8 ++ | | |
| Elements and values affecting the final | Final grade | | |
| grade | Final test - 100% weightage | | |