| Module code  | M_WE_SEM9 PW 1G/2G DIAG KON  |  |
|--|--|--|
| Field of study                                     | Veterinary medicine  |  |
| Module name  | Diagnostic Imaging in Horses   |  |
| Wodale Hame  | Obrazowanie diagnostyczne u koni   |  |
| Language of instruction                            | English  |  |
| Module type  | elective   |  |
| Level of studies                                   | Long-cycle Master's Degree studies   |  |
| Mode of study                                      | Full-time  |  |
| Year of study  Year of study in the field of study | V  |  |
| Semester of study in the field of study            | IX   |  |
| ECTS credits, divided into contact/non-            | 1 (0.6/0.4)  |  |
| contact hours                                      | 1 (0.6/0.4)  |  |
| Academic title/degree, name of the                 |  |  |
| person responsible for the module                  | dr. n. vet. Agnieszka Pomorska-Zniszczyńska  |  |
| Unit teaching the module                           | Department and Clinic of Internal Animal Diseases together with  |  |
| Offic teaching the module                          | Department and Clinic of Internal Allima Diseases together with  |  |
|  | Veterinary Medicine, Lublin University of Life Sciences  |  |
| Module objective                                   | Familiarizing students with the specifics of diagnostic imaging, i.e.  |  |
| Woddie Objective                                   | Ultrasound of joints, soft tissues and individual organs, X-ray of   |  |
|  | bones and joints and endoscopic techniques, in technical,  |  |
|  | diagnostic and legal terms   |  |
| The learning outcomes for the module               | Knowledge:   |  |
| include a description of the knowledge,            | K1. Knows the health and safety regulations for working with   |  |
| skills and social competences that the             | horses and the health and safety regulations of the radiology  |  |
| student will gain after completing the             | laboratory, the legal aspects concerning responsibility for the  |  |
| module.  | examination performed  |  |
|  | , and the second |  |
|  | K2. Knows the principles of X-ray and ultrasound examination of  |  |
|  | different parts of the horse's body and the rules of their   |  |
|  | interpretation   |  |
|  | Skills:  |  |
|  | S1. Is able to properly position the horse for x-ray examination and   |  |
|  | adjust equipment parameters to take x-ray images of specific body  |  |
|  | areas  |  |
|  |  |  |
|  | Social competences:  |  |
|  | C1. Is prepared to take responsibility for the decisions made in   |  |
|  | diagnostic imaging of horses   |  |
| Prerequisites and additional                       | according to the sequence of subjects  |  |
| requirements                                       |  |  |
|  |  |  |

|   | T   |  |  |
|---|---|--|--|
| List of core and supplementary literature | Health and safety rules in the radiology lab, health and safety rules in handling horses. Technical aspects of positioning a horse for x-ray examination. Preparing a patient for the ultrasound examination. Recognizing different physiological variants on x-ray images. Recognizing pathological lesions on x-ray of individual body parts. Recognizing pathological lesions in the ultrasound examination of different parts of the body. Recognizing disease symptoms related to the musculoskeletal system. X-ray examination of the joints and bones of the extremities. Ultrasound examination of tendons and joints of the extremities. X-ray and ultrasound examination of the spine. Radiologic examination of the horse's oral cavity. Diagnostic imaging of the respiratory, circulatory systems. Abdominal X-ray examination of foals. Abdominal ultrasound of foals and adult horses. Modern methods used in diagnostic imaging of horses.  1. Equine clinical radiology. Janet A. Butler, Christopher M. Colles, |  |  |
| Interature                                | Sue J. Dyson, Svent E. Kold and Paul 2 Veterinary Diagnostic Imaging: The   |  | les S Farrow                           |
|   | 3. Equine Diagnostic Ultrasound. Virg   |  | ics 5. i airow.                        |
| Planned forms/activities/teaching         | Didactic methods: multimedia presentations, practical exercises,  |  |  |
| methods                                   | discussion, presentation and discussion of clinical cases.  |  |  |
| Verification methods                      | K - final course credit will be awarded on the basis of positive  |  |  |
|   | results obtained from 3 partial credit of written open-ended questions, wi topics.  S - assessment of self-performed pro (clinical examination, diagnostic proposal) by the instructor twice dur C - participation in the discussion Grading scale according to Book of E   | II be given aft<br>ocedures<br>cedure, treatr<br>ring the seme | er every five<br>ment process<br>ster. |
| ECTS credits                              |   | Hours  | ECTS                                   |
|   | Practical classes   | 14   | 0.56                                   |
|   | colloquium in practical classes   | 1  | 0.04                                   |
|   | TOTAL contact hours   | 15   | 0.6                                    |
|   | preparation for classes   | 6  | 0.24                                   |
|   | learning from books   | 4  | 0.16                                   |
|   | TOTAL non-contact   | 10   | 0.4                                    |
| The workload of activities that require   | attendance at practical classes   | 14   | 0.56                                   |
| direct participation of an academic       | colloquium in practical classes   | 1  | 0.04                                   |
| teacher                                   | TOTAL with direct involvement of the teacher  | 15   | 0.6                                    |
| Relation of module learning outcomes      | K1-C.W3++   |  |  |
|   |   |  |  |
| to major learning outcomes                | S1-B.U7++   |  |  |
|   | C1- K1+   |  |  |
|   | C1- V1+   |  |  |

| Elements and values affecting final | Partial credits (10% weighting)                  |
|-------------------------------------|--|
| grade                               | Credit pass for practical skills (20% weighting) |
|                                     | Final credit (70% weighting)                     |