| Module title: Farm Animals Reproduction | | | | | | ECTS | 4 | | |
|---|--|---|----------------------------|----------------|---------------|--|----------------------------------|-------------------------------|--|
| Polish translation: | | | | | | | | - | |
| Polish translation: Course: | | Rozród zwierząt gospodarskich Veterinary Medicine | | | | | | | |
| | | recentury incuren | | | | | | | |
| | Module language: | English | | | | Stage: | IM-FVM | | |
| Form of studies: | ■ intramural | | 200.0 | | | | winter semester | | |
| Jeduics. | extramural | module. | Intako | | | | summer semester FVM-V-JMSS-07W- | | |
| | | | | Academic year: | 2022/2023 | Catalogue number: | D25/ | 3_20 | |
| Module coordir | ator: | dr hab. Bartosz Pav | wliński prof SG(| GW | | | | | |
| | | | | | Department of | f Large Animal Disease | s and Clinic ; | PhD | |
| module: | eachers responsible for the Academic teachers of the Institute Of Veterinary Medicine; Department of Large Animal Diseases and Clinic; PhD | | | | | inical I milking, at damaging acologic grams | | | |
| Teaching forms | number of hours: | a) Lectures; 30 b) Clinical labo | hours ratories; 45 houi | rs; | | | | | |
| Teaching metho | ods: | Oral presentation with audio-visual techniques e.g. videos, 3D animated visualization or other multimedia presentations with practical training on isolated organs and phantoms, training in the diagnosis and therapy of diseases in slaughter-houses and clinics, flocks and studs, on University owned teaching mares, clinical patients and production animals. Part of the course is conducted with the use of multimedia techniques, e.g. computer programs, videos and computer presentations. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester. | | | | | | r-houses and the course is | |

| Knowledge: 1 | Formal prerequisites and initial requirements: | | Animal physiology modules 1-2, Animal anatomy modules 1-2, Histology and embryology modules 1-2, Veterinary pharmacology modules 1-2, Pathomorphology modules 1-2, Pharmacology 1-2, Clinical and laboratory diagnostics modules 1-2, General surgery and anesthesiology, Veterinary epidemiology, Parasitology and invasiology modules 1-2, Immunology, Biochemistry modules 1-2, Veterinary microbiology modules 1-2. Student should have holistic knowledge and ability to connect and extrapolate previously learned topics into coherent ideas regarding prevention, diagnosis, therapy and management of animal condition | | | | |
|--|---|---|---|--|--------------------------------|--|--|
| Knowledge: 2 | Learning effects | | Course outcomes: | relative to the course | Impact on the course outcomes* | | |
| Knowledge: 2 Student knows proper methods and instruments to diagnose and treat reproductive tract disorders, knows how to tame farm animals 3 Student knows proper methods of selected reproductive tract disease examination 1 Student executes anamnesis with the aim of gathering detailed information about single animal, stud and their environment Student executes general and systemic clinical examination regarding the reproductive system, both manually and with the of use appropriate additional methods e.g. instruments and utensils 3 Student exomy proper methods and instruments to examine, diagnose and treat the reproductive system organs during the parturition 4 Student knows proper methods and instruments to examine, diagnose and treat the reproductive system organs during the parturition 5 Student is able to apply proper prevention of farm animal diseases 5 Student is able to implement proper treatment of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/career in accordance to professional ethics 3 Student is able to critically evaluate knowledge and use scientific sources 5 Student is able to critically evaluate knowledge and use scientific sources but so supplement it 8 W.1, B.W.3, B.W.4, B.W.3, B.W.4, B.W.3, B.W.4, B.W.3, B.W.4, B.W.3, B.W.6, B.W.1 8 Discribes of the module required to obtain learning effects: Program includes lectures and practical exercises in farm animal reproduction. During the course knowledge and practical abilities in propaedeutics and reproduction physiology, farm anim adopted. Assessment methods: Partial tests, written exam In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods; Partial tests - written tests containing 3 open questions, for each maximum 2 points. Scoring on each of tests: 5 points - grade 4.9; 4,5 points - grade 4.9; 3,0 - grade 3.5; 3,2 points - grade 3.5; 3,3 points - grade 3.5; 3,4 - 3,7 s grade 3.5; | 1 | | | B.W.1, B.W.3, B.W.4, B.W.5, B.W.6, B.W.12 | 2 | | |
| Sudent knows proper methods of selected reproductive tract disease examination Sudent executes anamnesis with the aim of gathering detailed information about single animal, stud and their environment Student executes general and systemic clinical examination regarding the reproductive system, both manually and with the of use appropriate additional methods e.g. instruments and utensils Student knows proper methods and instruments to examine, diagnose and treat the reproductive system organs during the parturition Student knows proper methods and instruments to examine, diagnose and treat the mammary gland Student knows proper prevention of farm animal diseases Student is able to apply proper prevention of farm animal diseases Student is able to implement proper treatment of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/craere in accordance to professional ethics Student is able to implement proper treatment of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/craere in accordance to professional ethics Student is able to implement proper treatment of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/craere in accordance to professional ethics Student is able to implement proper treatment of farm animal diseases B.W.1, B.W.3, B.W.4, B.W.1, B.W.3, B.W.4, B.W.5, B.W.1, B.W.3, B.W.4, B.W.5, B.W.5, B.W.5, B.W.5, B.W.5, B.W.5, B.W.5, B.W.5, B.W.5, B.W.1, B.W.3, B.W.4, B.W.5, B.W. | Knowledge: | 2 | Student knows proper methods and instruments to diagnose and treat | B.W.1, B.W.3, B.W.4, | 3 | | |
| Student executes anamnesis with the aim of gathering detailed information about single animal, stud and their environment | | 3 | Student knows proper methods of selected reproductive tract disease | B.W.1, B.W.3, B.W.4, | 2 | | |
| Skills: 2 student executes general and systemic clinical examination regarding the reproductive system, both manually and with the of use appropriate additional methods e.g. instruments and utensils 3 student knows proper methods and instruments to examine, diagnose and treat the reproductive system organs during the parturition 4 student knows proper methods and instruments to examine, diagnose and treat the mammary gland 5 student is able to apply proper prevention of farm animal diseases 5 student is able to apply proper prevention of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/career in accordance to professional ethics 5 student is able to critically evaluate knowledge and use scientific sources 6 student is able to critically evaluate knowledge and use scientific sources but to supplement it outstain learning effects: 7 symmetric obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to supplement it outstain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 8 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 9 student is able to critically evaluate knowledge and use scientific sources but to obtain learning effects: 9 student is able to critically evaluate knowled | | 1 | Student executes anamnesis with the aim of gathering detailed | B.U.2, B.U.20, B.U.21 | 1 | | |
| Student knows proper methods and instruments to examine, diagnose and treat the reproductive system organs during the parturition. Student knows proper methods and instruments to examine, diagnose and treat the reproductive system organs during the parturition. Student is able to apply proper prevention of farm animal diseases. B.W.15, B.U.10 Student is able to implement proper treatment of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/career in accordance to professional ethics. Student is able to critically evaluate knowledge and use scientific sources to supplement it busylement it busyle | Skills: | 2 | Student executes general and systemic clinical examination regarding the reproductive system, both manually and with the of use appropriate | B.U.3, B.U.7, B.U.13 | 1 | | |
| Student knows proper methods and instruments to examine, diagnose and treat the mammary gland 1 Student is able to apply proper prevention of farm animal diseases Student is able to implement proper treatment of farm animals, understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/career in accordance to professional ethics 3 Student is able to critically evaluate knowledge and use scientific sources to supplement it Porgram includes lectures and practical exercises in farm animal reproduction. During the course knowledge and practical abilities in propaedeutics and reproduction physiology, farm anim in case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods: Partial tests, written exam In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods. Partial tests - written tests containing 3 open questions, for each maximum 2 points. Scoring on each of tests: 6 points - 5.5 points - grade 5.0; 5 points - grade 4.5; 4.5 points - grade 3.5; 3.5 points - grade 3.5; 3.7 points - grade 4.5; 4.5 points - grade 4 | | 3 | Student knows proper methods and instruments to examine, diagnose | B.U.3, B.U.7, B.U.13 | 3 | | |
| Competences: 2 | | 4 | Student knows proper methods and instruments to examine, diagnose | B.U.3, B.U.7, B.U.13 | 2 | | |
| Competences: 2 understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/career in accordance to professional ethics 3 Student is able to critically evaluate knowledge and use scientific sources to supplement it 4 Supplement it 4 Program includes lectures and practical exercises in farm animal reproduction. During the course knowledge and practical abilities in propaedeutics and reproduction physiology, farm anim gynaecology, mammary gland diseases and herd health programs. 4 Partial tests, written exam In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment metadoted. 5 Partial tests - written tests containing 3 open questions, for each maximum 2 points. Scoring on each of tests: 6 points - 5.5 points - grade 4.5; 4.5 points - grade 4.5; 4.5 points - grade 3.5; 3.5 points - rating 3.0; 3 points and less - 2.0. Number of partial tests - 3; dates I and II take place in the same form. The final grade of the labs is the arithmetic average of grades from I and II test. The final grade of the labs is the arithmetic average of grades from I and II test. The final grade of the labs is sused according to The following scale: 3,0 - grade 2,0 3,0 - 3,25 - grade 3,0 3,26 - 3,75 - grade 3,5 3,6 - 4,25 - grade 4,5 4,51 - 5,0 - grade 4,5 4,51 - 5,0 - grade 4,5 4,51 - 5,0 - grade 5,0; To take the exam you must have completed partial tests Written exam covering all content of subject education, 50 test questions, for 1 points each. The score on the exam is: 50 - 45 points - grade 4.0; 4 - 40 points - grade 4.5; 39 - 35 points - grade 4.0; | | 1 | | B.W.15, B.U.10 | 1 | | |
| Detail description of assessment methods; Detail description of assessment methods; Detail description of assessment methods; Formal documentation of learning outcome: Detail description of assessment methods; To take the exam you must have completed partial tests Written exam you must have completed partial tests Written exam outcome: Detail description of assessment methods; To take the exam you must have completed partial tests Written exame you must have completed partial tests Written exame you must have completed partial tests You test questions, for 1 points each. The score on the exam is you must have completed partial tests You test questions, for 1 points each. The score on the exam is you must have completed partial tests You test questions, for 1 points each. The score on the exam is you must have completed partial tests You they must you must have completed partial tests You take the exam you must have completed partial tests You take the exam you must have completed partial tests You take the exam you must have completed partial tests You take the exam you must have completed partial tests You take the exam you must have completed partial tests You take the exam you must have completed partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have some partial tests You take the exam you must have you must have you take you take you take you take you take y | Competences: | 2 | understands the necessity of consultancy and is prepared to share the competencies with the veterinary team and the animal's owner/career in | B.W.1, B.W.3, B.W.4, B.W.5, B.W.6, B.W.12 | 2 | | |
| Objectives of the module required to obtain learning effects: Program includes lectures and practical exercises in farm animal reproduction. During the course knowledge and practical abilities in propaedeutics and reproduction physiology, farm anim gynaecology, mammary gland diseases and herd health programs. Partial tests, written exam or unusual circumstances mandatory remote teaching and remote assessment met adopted. Partial tests - written tests containing 3 open questions, for each maximum 2 points. Scoring on each of tests: 6 points - 5.5 points - grade 5.0; 5 points - grade 4.5; 4.5 points - grade 4.0; 4 points - grade 4.0; 4 points - grade 3.5; 3.5 points - rating 3.0; 3 points and less - 2.0. Number of partial tests - 3; dates I and II take place in the same form. The final grade of the labs is the arithmetic average of grades from I and II test. The final grade of the labs is issued according to The following scale: < 3,0 - grade 2,0 3,0 - 3,25 - grade 3,5 3,75 - 4,25 - grade 4,0 4,26 - 4,50 - grade 4,5 4,51 - 5,0 - grade 5.0; To take the exam you must have completed partial tests Written exam covering all content of subject education, 50 test questions, for 1 points each. The score on the exam is: 50 - 45 points - grade 4.5; 37 - 37 - 37 pade 4.5; 37 - 37 - 37 pade 4.5; 37 - 38 - 39 points - grade 4.5; 38 - 35 points - grade 4.5; 39 - 35 points - grade 4.5; 39 - 35 points - grade 4.5; | | 3 | | B.W.1, B.W.3, B.W.4, B.W.5, B.W.6, B.W.12 | 2 | | |
| Assessment methods: In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment metadopted. Partial tests - written tests containing 3 open questions, for each maximum 2 points. Scoring on each of tests: 6 points - 5.5 points - grade 5.0; 5 points - grade 4.5; 4.5 points - grade 4.0; 4 points - grade 3.5; 3.5 points - rating 3.0; 3 points and less - 2.0. Number of partial tests - 3; dates I and II take place in the same form. The final grade of the labs is the arithmetic average of grades from I and II test. The final grade of the labs is issued according to The following scale: < 3.0 - grade 2.0 3.0 - 3.25 - grade 3.0 3.26 - 3.75 - grade 3.0 3.76 - 4.25 - grade 4.5 4.51 - 5.0 - grade 4.5 4.51 - 5.0 - grade 5.0 To take the exam you must have completed partial tests Written exam covering all content of subject education, 50 test questions, for 1 points each. The score on the exam is: 50 - 45 points - grade 4.5; 39 - 35 points - grade 4.5; | • | program includes lectures and practical exercises in farm animal reproduction. During the course students gas knowledge and practical abilities in propaedeutics and reproduction physiology, farm animal obstetric | | | | | |
| each of tests: 6 points - 5.5 points - grade 5.0; 5 points - grade 4.5; 4.5 points - grade 4.0; 4 points - grade 3.5; 3.5 points - rating 3.0; 3 points and less - 2.0. Number of partial tests - 3; dates I and II take place in the same form. The final grade of the labs is the arithmetic average of grades from I and II test. The final grade of the labs is issued according to The following scale: < 3,0 - grade 2,0 3,0 - 3,25 - grade 3,0 3,26 - 3,75 - grade 3,5 3,76 - 4,25 - grade 4,0 4,26 - 4,50 - grade 4,5 4,51 - 5,0 - grade 5,0 To take the exam you must have completed partial tests Written exam covering all content of subject education, 50 test questions, for 1 points each. The score on the exam is: 50 - 45 points grade 4.5; 39 - 35 points - grade 4.0; | Assessment methods: In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be | | | | | | |
| 31 - 30 points - grade 3.0; 29 points and less - grade 2.0. No extra assessment methods are anticipated. | methods; Formal documentation of learning | | each of tests: 6 points - 5.5 points - grade 5.0; 5 points - grade 4.5; 4.5 points - grade 4.0; 4 points - grade 4.0; 4 points - grade 3.5; 3.5 points - rating 3.0; 3 points and less - 2.0. Number of partial tests - 3; dates I and II take place in the same form. The final grade of the labs is the arithmetic average of grades from I and II test. The final grade of the labs is issued according to The following scale: < 3,0 - grade 2,0 3,0 - 3,25 - grade 3,0 3,26 - 3,75 - grade 3,5 3,76 - 4,25 - grade 4,0 4,26 - 4,50 - grade 4,5 4,51 - 5,0 - grade 4,5 4,51 - 5,0 - grade 5,0 To take the exam you must have completed partial tests Written exam covering all content of subject education, 50 test questions, for 1 points each. The score on the exam is: 50 - 45 points grade 5.0; 44 - 40 points - grade 4.5; 39 - 35 points - grade 3.5; 31 - 30 points - grade 3.0; 29 points and less - grade 2.0. | | | | |

| | Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and written questions, written assessments of the students. |
|---------------------------------|--|
| | To pass the course you must have no more than 20% of absences or in accordance with current study regulations. The final grade is attended by: passing exercises with 0.4 weights of this grade and an exam grade of 0.6 weights final grade, each of which must be a positive grade (i.e. 3.0 or more). Scale (weighted average of exercise and exam grades): <3.0 - grade 2.0 |
| Elements impelling final grade: | 3.0 - 3.25 - grade 3.0 3.26 - 3.75 - grade 3.5 3.76 - 4.25 - grade 4.0 4.26 - 4.50 - grade 4.5 4.51 - 5.0 - grade 5.0 The condition of passing the course is no more than 20% of absences or in accordance with the current study regulations. |
| Teaching base: | lectures - auditorium, auditory exercises - class room, laboratory exercises - departments labs and dispensaries, field exercises - RZD Obory or other farms of farm animals. Slaughterhouses. |

Mandatory and supportive materials:

Textbooks:

- 1. Veterinary Reproduction and Obstetrics. D.E. Noakes, T.J. Parkinson, G.C.W. England 9th ed. Sauders, Elsevier, 2009
- 2. Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier. 2007
- 3. Biotechnologia rozrodu zwierząt udomowionych. A. Bielański i M. Tischner. Drukrol S.C., 1998
- 4. Pig diseases. D.J. Taylor, St Edmunsbury Press Ltd, Bury St Edmunds, Suffolk 2006
- 5. Diseases of swine, 10th edition, John Wiley and Sons Inc. 2012, Ed. J.J. Zimmermann, L.A. Karriker, A. Ramirez, K.J. Schawrtz, G.W. Stevenson
- 6. Large animal internal medicine. Bradfort P. Smith, MOSBY St.Louis London Philadelphia Sydney Toronto, 2005.
- 7. Sheep and goat medicine. Pugh D.G, W.B. Saunders Company. Philadelphia, Pennsylvania, 2002.
- 8. Diseases of dairy cattle. Thomas J. Divers, Simon F. Peek, Saunders Elsevier. 2008.
- 9. Free radicals basics of cattle diseases. Kleczkowski M., Kluciński W., Bartosz G, WPALD and BWLSS. Lomza. 2006.
- 10. Handbook of Pig Medicine, Elsevier 2007, Jackson P., Cockcroft P

lournals

Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction, Reproduction, Molecular Reproduction and Development, Reproductive Biology, Cloning, Archives of Andrology, International Journal of Andrology, Life Veterinary, Veterinary Medicine

Supplementary data sources:

- 1. www.oie.int
- 2. www.isid.org
- 3. www.pubmed.com

Relevant scientific publications, including those of the module coordinator.

ANNOTATIONS

For reasons of occupational health and safety at the Clinic, the participants should wear medical long pants and sweatshirts or aprons with short sleeves (up to the elbow) and have with them: a surgical mask and cap, changed footwear - flat footwear soles covering the foot, you can also have shoe covers.

Quantitative summary of the module:

| Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS: | |
|--|--------|
| Total ECTS points, accumulated by students during contact learning: | 3 ECTS |

^{* 3 –} complete and detailed, 2 – moderate, 1 – basic.