# PRACTICE

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| **Study program** | Veterinary Medicine |
| **Year of study** | II |
| **Semester** | II |
| **Regime of discipline** | DOB |
| **Category of discipline** | practice |
| **Number of lectures hours per week** | |
| **Number of seminar/laboratory/project hours per week** | |
| **Total number of hours according to the curriculum: lectures/seminars/laboratory/project** | 90 |
| **Number of transferable credits** | 4 |

## SPECIFIC SKILLS

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| **Professional Competence** | • The student must understand how a farm is organized and how its production plan is structured.<br>• The student must be familiar with technologies used for raising and managing farm animals.<br>• The student must have knowledge of animal breeding methods.<br>• The student must follow hygiene requirements and understand how these conditions influence and favor the development of diseases in animals.<br>• The student must observe the behavior of sick animals in order to identify changes that may represent clinical signs of disease. |

## LEARNING OUTCOMES

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| **Knowledge** | • Understands how a farm is organized and how its production plan is structured/ understands how veterinary clinics are organized and how they operate.<br>• Knows technologies used for the growth, handling, and management of farm animals.<br>• Understands animal breeding methods and reproductive techniques.<br>• Knows hygiene requirements and how environmental and management conditions influence the emergence and spread of diseases.<br>• Understands the mechanisms of some pathogenic factors and their effects on animals.<br>• Knows the principles and procedures for examining the digestive, respiratory, and cardiovascular systems.<br>• Understands the foundations of rational animal nutrition, feed formulation, food processing technologies, harvesting and storage methods, and water supply systems in animal shelters.<br>• Knows the functioning and correct use of farm equipment such as water systems, mechanical feeders, mills, milking devices, scales, and milk separators. |
| **Skills** | • Applies growth and handling technologies through active participation in farm activities.<br>• Performs basic animal breeding monitors during reproductive processes.<br>• Evaluates the hygiene measures and their impact on disease prevention.<br>• Observes and interprets behavioral changes in sick animals to identify potential clinical signs.<br>• Conducts examinations of major physiological systems (digestive, respiratory, cardiovascular). |
| **Responsibility and autonomy** | • Applies knowledge and skills independently in routine farm/veterinary clinics activities while respecting animal welfare and hygiene standards. |

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| | • Takes responsibility for monitoring animal health indicators and reporting abnormalities.<br>• Ensures proper implementation of feeding plans, hygiene protocols, and equipment operation.<br>• Demonstrates autonomy in identifying relevant scientific information and integrating it into professional practice. |

## COURSE OBJECTIVES

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| **General objective of the course** | To form professional skills in realizing tasks for future veterinary doctors |
| **Specific objectives** | To apply in production conditions of all the skills obtained during study years;<br>To be familiarized with administrative and veterinary production problems.<br>To be familiarized with veterinary clinics activities and potential problems. |

## COURSE CONTENT

| **LECTURES** | Number of hours |
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| - | - |
| **SEMINAR/LABORATORY** | Number of hours |
| Safety rules instruction | |
| 1. Having knowledge about farm organization and its plan of production:<br>-plan of production (animal numbers, reproduction and parturition plans, reproduction index, economy plan);<br>-knowing biological material from farm;<br>-knowing breeding and exploitation of animals in farm. | |
| 3. Knowing intensive and semi-intensive growth and exploitation technologies of species and animal categories, by direct participation to all activity fields; | |
| 4. Knowing problems for feeding and rational nutrition: proper food intake, green food intake, nutritive cultures, cropping and deposit of food, manouvers of food in farm, making food recipes according to species an animal category, the proper way for food administration (division of small intakes, the periods of administration, the order of administration), harvest and delivery of food samples for lab tests. | |
| 5. Having knowledge in animal reproduction domain: animal breeding system in farm, recognition of females in heating, picking the right moment for reproduction or artificial insemination, semen intake and conservation, initiation in artificial insemination techniques, recognition of external signs of advanced gestation, initiation of early diagnosis of pregnancy, recognition of abortion signs, sanitary conduct in case of abortion, recognition of behavior and clinical signs in females, preparation for parturition, observation of parturition and caring for females in parturition times. | |
| 6. Application of microbiology knowledges: taking and delivering samples for lab tests, doing blood and other pathological materials tests on blades, doing rapid serological tests for diagnosis, detecting preclinical mastitis, use of field tests. | |
| 7. Knowing and applying hygiene information: following if there are respected hygiene conditions for construction and location of farm determining microclimate factors in shelters, shelter hygiene and of water administration, respecting hygiene in obtaining and preparation of primary animal products. | |
| 8. Initialization in applying pathology knowledges:<br>8.1. Semiology and Medical Pathology: knowing the techniques for clinical examination of animals; nervous system, locomotory, circulatory, excretory, respiratory, digestive apparatus and for internal glands examination procedures, prelevation of blood tests for paraclinical exams, participation in administration of medicines.<br>8.2. Parasites diseases: prophylaxis and control of parasites diseases (group treatment-bathing, deworming substances administration, treatments against fungi, feces sample gathering and parasitological examination), combat of nematodes, trematodes and field cestodes;<br>8.3. Infectious diseases: epidemiological surveillance of animals; participation in specific prophylaxis actions (vaccines, participations in actions to detect some diseases (tuberculin), participation in the treatment of infectious diseases;<br>A. Surgical interventions: trimming, dehorning, individualization, cutting the fangs in piglets<br>B. Knowledge of primary technology and sanitary veterinary control of products obtained in farm; milk hygiene and primary treatment of milk in farm (filtration, degreasing, cooling, conservation), scarification of animals in special conditions, putting animals in transportation before going to slaughterhouse, reception and transport of animal product, conservation of raw skin in farm. | |
| TOTAL | 90 |

**BIBLIOGRAPHY:**

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**ASSESSMENT**

| Activity type | Assessment criteria | Assessment methods | Percentage of final grade |
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| **Lectures** | - | - | - |
| **Seminar/laboratory/clinical sessions** | Practical work | Oral exam | 100% |
| **Other activities** | | | |

**Course coordinator: -**
**Practical activities coordinator L/S/P: Assist. Prof. PhD student Matei Diana Petra**