University of Agricultural Sciences and Veterinary Medicine Iaşi
Faculty: Veterinary Medicine
Specialty: Veterinary Medicine

Approved,
Dean,
Professor Mihai MAREŞ, PhD

Discipline: Practical Training

SYLABUS OF THE COURSE
Academic year 2021/2022

I. Identification data of the course:

Practical Training code – MV.Dpa.212
Study year/semester :II, 1th and 2th semesters
Formative category: DS
Course status: Compulsory

No credits: 6	1st Sem.		2nd Sem.		
		Lecture	**Seminary**	**Practical work**	**Project**
No hours: 90	**1st Sem**	-	-	-	-
	2nd Sem	-	-	**90**	-

II. General objectives:

- Assessment of animal health by morphofunctional examination of apparata and systems
- Assessment of the age of the animals
- Analysis of biological fluids (urine) and blood
- Establishing morphological structures with clinical risk within the body regions
- Identification of projection areas of organs and landmarks for puncture, pathway election of vessels and nerves
- bacterial culture environment and bacterioscopic examination

III. Competences. Skills (Cognitive, professional, affective- value):

- Knowledge of the physiological constants of apparata and systems
- knowledge in the biochemical examination of humor and blood
- knowledge in pathophysiology of biological fluids
- Knowledge and placement in successive plans of morphological structures within body regions
- Sowing, growing and examination of bacterial cultures

IV. Courses previously required (pre-requisites): Histology, Biology of the animals, Animal Anatomy, Biochemistry, Physiology, Pathophysiology, Animal Husbandry, Microbiology

V. Content of the *practical work*

No pract work/ seminary	**Name of the practical work**	**Hrs.**	**%**
1	Rules about work protection and safety in veterinary and animal husbandry units. Assessment of the age of the animals by: dentition, horns, umbilical scar, etc.	**12**	**13,3**
2	Physiological constants (by species) of the respiratory, digestive and circulatory system - frequency of respiration - examination of ruminal contractions (in ruminants) - examination of heart rate and pulse - examination of the blood components	**12**	**13,3**
3	Biochemical examination of blood and urine: - analysis of inorganic and organic constituents normally present in the blood and urine - Analysis of abnormal constituents in the urine (carbohydrates, lipids, bile pigments, etc.)	**12**	**13,3**
4	Changes in the biological fluids, blood, and function of the apparatus and systems during the disease development	**18**	**20,0**
5	Assessment of animal health by appearance: facies, hair production, assessment of the animal's behavior on the move, support and decubitus, skin and mucous membrane examination completed by laboratory examination (examination of blood, urine).	**12**	**13,3**
6	Clinical risk assessment of organs and vascular and nervous structures within the body regions and evaluation of fractures gravity or other surgical lesions.	**12**	**13,3**
7	Preparation of bacterial and yest culture media. Harvesting and seeding of bacteria on various culture environment. Making smears and examining them under a microscope	**12**	**13,5**
Total		90	**100**

VI. Bibliography:

1. Practical Guide

VII. Teaching-working methods:

- Effective participation with the veterinarian practitioner in veterinary offices, units and sanitary laboratories
- Collection and biochemical examination of biological fluids
- Laboratory examination of biological fluids in sick animals
- Examination of animals by listening, palpation and thermometry.
- Clinical anatomical examination by body regions
- Examination of dentition, cornous structures and umbilical scar
- Analysis and examination of bacterial cultures

VIII. Equipments/ materials used:

- Microscope, Magnifying glass, stethoscope, restraints: twitch, pliers, ropes, gauze bandages, mouth speculum, medical kit
- Materials: test tubes, spatula, trays, phlebotomy needles, thermometers, glass slides, bacterial seeding loop, bacterial and fungus culture environment
- substances for disinfecting the mucous membranes and skin (chloramine, alcohol, iodine, hydrogen peroxide, etc.), reagents, etc.

IX. Evaluation method: Proportion from the final mark:

Specification	Points	%
Practice report evaluation (practice notebook)	2,5	25
Tutore evaluation	2,5	25
Colloquium exam	5,0	50
Final Grade	**10**	**100**

Advised in department: 14.09.2021

Advised in Faculty Council: 17.09.2021

Responsible of Practical training:
Associate Professor, SPATARU Constantin

Head of Department:
Associate Professor, PAVEL Geta