

### **General characteristics of studies**

- 1) **field of study:** veterinary medicine
- 2) **level of study:** long-cycle Master's degree studies
- 3) **profile of education:** general-academic
- 4) **Form of studies:** full-time, part-time (11 semesters)
- 5) **professional title awarded to the graduate:** veterinarian
- 6) **indication of the field and scientific discipline:** the field of agricultural sciences, the discipline of veterinary medicine  
Regulation of the Minister of Science and Higher Education of 20 September 2018 on the fields of science as well as scientific and artistic disciplines (Journal of Laws item 1818)

### **2. a description of the profile of the graduate, including a description of the general learning outcomes, employment opportunities (typical jobs) and continuation of education by graduates:**

General learning outcomes are defined by the Regulation of the Minister of Science and Higher Education of 17 July 2019, on the standard of education preparing to practice veterinary medicine Article 2, Annex 2 to the Regulation.

Learning outcomes are acquired through the achievement of essential learning objectives, which include:

- 1) gaining the knowledge necessary to practice as a veterinarian regarding:
  - a) the structure and functioning of animal organisms;
  - b) animal husbandry,
  - c) the nature of pathogens and the pathogenesis of disease,
  - d) the effects and principles of medication,
  - e) diagnosis and therapy of infectious and non-infectious diseases,
  - f) surgical techniques used,
  - g) veterinary aspects of consumer health protection according to the *from stable to table* principle,
  - h) regulations related to the practice of this profession;
- 2) gaining the ability to practically apply the acquired knowledge.
- 3) preparing to work independently and as part of a team, communicating with pet owners, forming opinions, and maintaining appropriate records;
- 4) developing a sense of responsibility for other team members, including subordinates, and patients;
- 5) acquiring the habit and sense of the need for continuing education and the use of the skills of experienced veterinarians.

The results acquired in the process of learning in the basic classes of physics, chemistry, biology and mathematics applied to the biological sciences provide the graduate with the preparation to use the acquired knowledge in solving problems occurring in the process of further study.

As part of the learning outcomes acquired in the course of study group activities:

- 1) basic sciences: anatomy (including histology and embryology), physiology, biochemistry, genetics, pharmacology, pharmacy, toxicology, pathophysiology, microbiology, immunology, epidemiology, and professional ethics – the graduate describes and interprets the basic principles and mechanisms underlying animal health, disease and therapy, from the cellular level through the organ and from the animal to the entire animal population, and demonstrates knowledge of normal structure and function, mechanisms regulating homeostasis, pathophysiological changes in organs and systems, and biological and pharmacological mechanisms enabling recovery, as well as in the field of the biology of infectious agents causing animal-transmitted disease and anthrozooses, including disease transmission mechanisms and macro-organism defense mechanisms;
- 2) clinical sciences: obstetrics, pathology (with pathological anatomy), parasitology, general surgery with anesthesiology, clinical classes on internal diseases, infectious diseases, surgery and reproduction of domestic animals, diseases of poultry and other animals, prophylaxis, radiology, reproduction and reproductive disorders, state veterinary service and public health protection, veterinary legislation and forensic medicine, therapeutic management and propedeutics – The graduate demonstrates the knowledge and skills necessary to: perform clinical examination of patients in accordance with the clinical examination plan, thoroughly analyse clinical symptoms and anatomopathological changes, collect, analyse and properly interpret clinical data and the results of laboratory and additional tests, formulate the diagnosis, including differential diagnosis, take therapeutic or prophylactic measures, monitor the health of the herd in large-scale breeding, take appropriate actions in case of a compulsorily notifiable disease;
- 3) animal production: technologies in animal production, animal nutrition, agronomy, agricultural economics, animal breeding, veterinary hygiene, ethology and animal protection –the graduate demonstrates knowledge of animal breeding, including the principles of animal nutrition, animal welfare and the principles of production economics; knows the methods of management and utilisation of the by-products and waste associated with animal production;
- 4) food hygiene: inspection and control of animal feedstuffs and foodstuffs of animal origin, food hygiene and technology, practical training (including slaughterhouses and processing plants for foodstuffs of animal origin) – the graduate: understands the principles of consumer health protection, has the ability to properly supervise the production of foodstuffs of animal origin, knows the standards, principles and conditions of production technology and maintaining the hygiene of the technological process and is able to interpret legal acts regulating proper veterinary supervision, is able to carry out ante and post-mortem examinations and use control systems in accordance with HACCP procedures (*Hazard Analysis and Critical Control Points System*); these skills require advanced, specialised knowledge of pathology, microbiology, parasitology, pharmacology, toxicology and epidemiology.

As part of the learning outcomes for extra-curricular classes:

- 5) Latin language, modern foreign language and humanities –The graduate is able to use passively and actively Latin medical nomenclature to the extent necessary to understand and describe medical activities, animal health, diseases, pathological conditions and lesions, and has mastered passive and active knowledge of a modern foreign language to the extent necessary to communicate and consult on an advanced level with

veterinarians and other specialists in related disciplines, including specialists from abroad;

- 6) basics of computer science – the graduate knows and can use information systems used to manage the clinic, herd and to analyse the epizootic situation;
- 7) physical education - the graduate has the necessary physical fitness to work with some animal species.

The graduate is prepared to work in the state and private sector: in veterinary inspection, animal treatment facilities, veterinary diagnostic laboratories.

The graduates is oriented towards further development of his professional skills, improving the skills and adapting them to the social and economic realities, and is prepared to undertake third-level studies or specialisation postgraduate studies.