

**Don State Technical University
HIGHER EDUCATION SYLLUBUS IN**

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| 1.1.Name of the study programme (in the original language) | Ветеринария |
| 1.2.Name of the study programme in English | Veterinary medicine |
| 1.3.Qualification (degree) | Specialist in Veterinary Medicine |
| 1.4.Mode of education | Full-time |
| 1.5.Educational department | Biology and General Pathology Chair |
| 1.6.Workload (ECTS) | 300 |
| 1.7.Duration of education | 5 years |
| 1.8.Field | Veterinary medicine |
| 1.9.Profile | Animal Health and Disease |
| 1.10.Code of the field | 36.05.01 |
| 1.11.Teaching languages | English, Russian |
| 1.12.Other necessary languages | – |
| 1.13.Admission requirements | <ul style="list-style-type: none"> • Certificate of Secondary (full) or Secondary Vocational Education of nationally recognized standard; • Complex Test results in: 1) Biology, 2) Russian language, 3) Mathematics, Physics or Chemistry. • Enrollment is made in accordance with Don State Technical University admission rules. |

2.Aim of the programme

Study Programme aims at developing in students personal qualities, universal/general and professional competencies to meet the current and future challenges of all aspects of the veterinary profession; promoting and enhancing animal health and welfare, and public health through internship, scientific and professional endeavor and veterinary practice

3.Characteristics of the programme

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| 3.1.Main disciplines/modules | Animal anatomy Animal cytology and histology Animal husbandry Biochemistry Physiology Microbiology Veterinary Dermatology Clinical Diagnostics Pathoanatomy Pathophysiology Veterinary Pharmacology Animal Internal Medicine Veterinary surgery Animal infectious diseases and zoonosis Parasitology Veterinary public health Veterinary Obstetrics & Gynaecology Veterinary and sanitary expertise Foreign language professional communication Self-employment modules |
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4.Employment and further education opportunities

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| 4.1 Job opportunities | Employment in the following fields: - Animal health - Veterinary medicine, |
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| | <ul style="list-style-type: none"> - Food safety, - Organization and management of veterinary clinic. |
| 4.2 Further studies | <p>Programme graduates can continue education at the following postgraduate Programmes of the «Biology and General Pathology» Chair:</p> <ul style="list-style-type: none"> - Master programme “Sanitary expertise and laboratory diagnostics in veterinary medicine” (in the field of study 36.04.01 “Veterinary and sanitary expertise”); - PhD programme in Bioorganic chemistry (02.00.10). <p>Dissertation research opportunities are provided under supervision of Dr. of Biological Sciences, Professor A.M. Ermakov, Dr. of Biological Sciences, Professor S.N. Kartashov, Dr. of Veterinary Medicine, Professor T.N. Derezhina, Dr. of Agricultural Science, Associate Professor G.A. Zelenkova, Dr. of Biological Sciences A.V. Kazarnikova, Dr. of Biological Sciences P.V. Aksenova.</p> <p>PhD researches can be codirected by professors from partner-universities including the leading ones in veterinary science such as the University of Sydney, the University of North Carolina, Purdue University, Complutense University of Madrid, etc.</p> |

5. Programme learning outcomes

Upon successful completion of the Programme, the student will be able to:

- understand the principles of biological and pathological processes of animal body;
- conduct clinical diagnostics of diseases and treatment of domestic, agricultural and wild nature animals (at game reserves and zoos);
- carry out veterinary surgery and anesthesia;
- perform laboratory diagnostics of infectious and parasitological animal diseases, and metabolic dysfunctions;
- determine the sources of dysfunction and monitor animal feeding and breeding;
- consult on animal management and welfare, and safeguard human, animal and environmental health (One Health) including principals of biosecurity, food safety and causes of animals’ deaths;
- expertise animal husbandry farms at the stage of construction and authorize their conformity to the veterinary and hygiene standards on the national and international levels;
- render veterinary and sanitary control during veterinary procedures at the state boundary;
- engage in life-long-learning and self-reflection to improve overall competence.

6. Education style (Teaching, learning, assessment)

6.1. Learning and teaching approaches

The program envisages implementation of educational technologies aimed at forming universal/general and professional competencies in students. The following educational technologies are used in the learning process:

- **student oriented learning** ensures disclosure of student’s individuality in the learning process. By creating a system of psychological and pedagogical conditions for each student it becomes possible to take into account student’s individual cognitive capabilities, needs and interests;
- **interactive and digital learning** implies collective interaction of all educational process participants based on problem, search and research activities;
- **research learning** allows students to enrich their knowledge independently, immerse deep into the studied problem and suggest ways of solving it - highly valuable for formation of one’s worldview;
- **information and communication technologies** enrich training

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| | <p>by media content and facilitates implementation of network form of the Study Programme;</p> <ul style="list-style-type: none"> - practice based learning involves placements in veterinary practices, practical work in laboratory and dissection classes, internships at the animal husbandry placements, directed and self-directed practice in the Clinical Skills Center; - self-evaluation in teaching involves teachers self-monitoring, audio and video recording, students' feedbacks (questionnaire). |
| <p>6.2. Assessment methods</p> | <p>The assessment tools for running control and interim assessment of students' progress are developed in accordance with the FSES 3+ HE requirements. They include:</p> <ul style="list-style-type: none"> - Objective Structured Clinical Examinations; - Multiple choice questions and testing factual knowledge; - Research projects; - Presentations, posters, reports; - Case studies clinical reasoning; - other forms of control enabling the teacher to assess students' competencies. |
| <p>7.Contact information (responsible chair, head of the programme)</p> | |
| <p>Biology and General Pathology Chair; Head of the Programme, Doctor of Biology, Professor Alexey M. Ermakov</p> | |