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General provisions

The curriculum of veterinary medicine students includes fundamental, preclinical, clinical, food safety and quality subjects. This allows for acquisition of the necessary Day One Competences – a term for evaluation of student's performance, introduced by the European Association of Establishments for Veterinary Education (EAEVE) and the Federation of Veterinarians of Europe (FVE).

The 2017 Curriculum (approved by Protocol 10/19.12.2016 of the Faculty Council) of the Faculty of Veterinary Medicine, Trakia University includes the subjects listed in Annex V to Directive 2005/36/EC of the European Parliament and Decree 17 of 28.01.2016 on the Ordinance on the state requirements for acquiring higher education in the "Master" educational degree, specialty "Veterinary Medicine". The curriculum ensures the acquisition of Day One Competences.

Competence is a concept integrating knowledge, skills and attitudes. Competence requires acquisition of technical skills as well as confidence and ability to apply what has been learnt in the practice. "*Day One Competences*" is the minimum standard required and the starting point for different roles in the veterinary profession (e.g. practicing veterinarian, researcher, national veterinary service employee, animal welfare specialist, veterinary specialist, control etc).

After graduation, ongoing professional development will be needed in the selected field of activities. Some roles may require postgraduate training and further formal qualifications (e.g. EBVS Diplomate, PhD)

A new graduate having achieved Day One Competences should be capable to independently perform appropriate entry-level tasks and duties of the veterinary profession and confident enough to practise veterinary medicine at a primary care level on their own, while knowing when it is appropriate to seek direction from more experienced colleagues. New graduates are likely to need more time to perform some procedures. Support and direction from more senior colleagues should be available.

The Faculty of Veterinary Medicine at the Trakia University is responsible for the acquisition of Day One Competences by its students and guarantees that at the time of graduation, the students are prepared to fulfill their professional roles. With this regard, they are assisted by practising veterinarians and the BFSA as hosts of extramural practical training. The latter contributes to further refining of students' skills through practice and even to achieving new competences.

The student Day One Competences Logbook evidences the acquired specific knowledge and skills of FVMSZ students during the entire period

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of training. Its correct filling and certification by instructors is based on student's achievements and performance during theoretical and practical training, duties, summer practical training, in-class and extramural training.

Day One Competences

The acquired Day One Competences means that the graduated veterinarian is able to:

- 1.1 Understand the ethical and legal responsibilities of the veterinarian in relation to animals, clients, society and environment.
- 1.2 Demonstrate knowledge of the organisation, management and legislation related to veterinary business.
- 1.3 Promote, monitor and maintain health and safety in the veterinary setting; demonstrate knowledge of systems of quality assurance; apply principles of risk management to their practice.
- 1.4 Communicate professionally with clients, the public, professional colleagues and responsible authorities, using language appropriate to the respective audience.
- 1.5 Prepare accurate clinical and client records, and case reports when necessary, in a form satisfactory to colleagues and understandable by the public.
- 1.6 Work effectively as a member of a multi-disciplinary team in the delivery of services.
- 1.7 Understand the economic and emotional context in which the veterinary surgeon operates.
- 1.8 Be able to review and evaluate literature and presentations critically.
- 1.9 Understand and apply principles of clinical governance, and practise evidence-based veterinary medicine.
- 1.10 Use his professional capabilities to contribute to the advancement of veterinary knowledge, animal health and welfare improvement, and veterinary public health.
- 1.11 Demonstrate ability to cope with incomplete information, deal with contingencies, and adapt to change.
- 1.12 Recognise personal and professional limits, and know how to seek professional advice, assistance and support when necessary.
- 1.13 Demonstrate an ability of lifelong learning and a commitment to learning and professional development. This includes recording and reflecting on professional experience and taking measures to improve performance and competence.

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- 1.14 Take part in self-audit and peer-group review processes in order to improve performance.
- 1.15 Obtain an accurate and relevant information and history of the individual animal or animal group, and their environment.
- 1.16 Handle animal patients safely and instruct others in helping the veterinarian perform these techniques.
- 1.17 Perform a complete clinical examination and demonstrate ability in clinical decision making.
- 1.18 Develop appropriate treatment plans and administer treatment in the interests of the animals under their care with regard to the resources available.
- 1.19 Attend in an emergency to perform first aid in patients regardless of their species.
- 1.20 Assess the physical condition, welfare and nutritional status of an animal or group of animals and advise the client on principles of husbandry and feeding.
- 1.21 Collect, preserve and transport samples, select appropriate diagnostic tests, interpret test results.
- 1.22 Communicate clearly and collaborate with referral and diagnostic services, including providing an appropriate history.
- 1.23 Understand the advantages of imaging and other diagnostic techniques and apply them achieving a diagnosis. Use basic imaging equipment and carry out an examination effectively as appropriate to the case, in accordance with good health and safety practice.
- 1.24 Recognise signs of possible notifiable, reportable and zoonotic diseases and take appropriate action (including etiological diagnosis and notifying the relevant authorities).
- 1.25 Access the appropriate sources of data on licensed medicines.
- 1.26 Prescribe and dispense medicines correctly and responsibly in accordance with legislation.
- 1.27 Report suspected adverse reactions.
- 1.28 Apply principles of bio-security correctly, including equipment sterilisation and clothing disinfection.
- 1.29 Perform aseptic procedures appropriately.
- 1.30 Safely perform sedation, general and regional anaesthesia; chemical methods of restraint.
- 1.31 Assess and manage pain.
- 1.32 Recognise indications for euthanasia is appropriate and perform it using an appropriate method, showing sensitivity to the feelings of owners. Observe the safety of those present; advise on carcase disposal.

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- 1.33 Perform a systematic gross post-mortem examination, record observations, sample tissues, store and transport them.
- 1.34 Perform ante-mortem inspection of animals destined for the food-chain, paying attention to welfare aspects; correctly identify conditions affecting the quality and safety of products of animal origin, to exclude those animals whose products are unsuitable for the food-chain.
- 1.35 Perform inspection of food and feed including post-mortem inspection of food producing animals.
- 1.36 Advise on, and implement preventive and eradication programmes appropriate to the species and in line with accepted animal health, welfare and public health standards.

Underpinning knowledge and understanding

In order to perform effectively their professional duties, new veterinary graduates will need underpinning knowledge in the field of biological, social and animal sciences and laws related to the animal industries.

In general, this includes the following:

- 2.1 Understanding of, and competence in the logical approaches to both scientific and clinical reasoning, the distinction between the two, and the strengths and limitations of each.
- 2.2 Research methods and contribution of basic and applied research to veterinary science.
- 2.3 The specifics, function and behaviour of animals and their physiological needs, including of healthy domestic, wild captive and laboratory animals.
- 2.4 A knowledge of the businesses related to animal breeding, and animal production.
- 2.5 The aetiology, pathogenesis, clinical signs, diagnosis and treatment of the common diseases and disorders occurring in the common animal species.
- 2.6 Awareness of diseases of international importance that pose a risk to national and international biosecurity and trade.
- 2.7 Legislation relating to animal care and welfare, animal movement, and notifiable and reportable diseases.
- 2.8 Medicines legislation and guidelines on responsible use of medicines, including antimicrobials and antiparasitics.
- 2.9 The principles of disease prevention and the promotion of health and welfare.

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- 2.10 Veterinary public health issues, e.g. epidemiology, transboundary epizootic diseases, zoonotic and food-borne diseases, emerging and re-emerging diseases, food hygiene and technology.
- 2.11 Principles of effective interpersonal interaction, including communication, leadership, management and team working.
- 2.12 The ethical framework within which veterinary surgeons should work, including important ethical theories that inform decision-making in professional and animal welfare ethics.

This Logbook serves as evidence that taught material and skills, indicated in the curriculum and some specific subjects for acquisition of have been covered.

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(Name, surname, family name)

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(Student ID number)

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(Year of enrolment in the FVMSZ)

The methods for certification and assessment are reliable and include different approaches. The quality control of student logbooks ensures that all clinical procedures, theoretical and practical training planned in the curriculum are fully completed by each student.

General rules for filling in the "Logbook of acquired practical skills and competences over the course of training in veterinary medicine"

1. At the time of beginning your studies at the university, as well as after fulfilment of all activities listed therein, the Student Affairs Office shall perform a general certification, ensuring the validity of each *"Logbook of acquired practical skills and competences over the course of training in veterinary medicine"*.

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2. Direct evaluations of skills and Day One Competences could be based on actual patients, animals, conditions and environment, as well as simulations, dummies, models, and schematics.
3. Certification of fulfilling a requirement or activity is done by an instructor, who needs to put down his/her name and signature.
4. „*Demonstrated, taught and explained*“ means having been present in classes where the respective material was taught, or a detailed explanation by the student to demonstrate specific knowledge and skills. „*Done under instructor's supervision*“ means conducting a specific manipulation, laboratory experiment or procedure, researching a problem, topic, etc.
5. The Logbook is considered filled-in when a minimum of 75% of all manipulations and skills described in each table (discipline) have been completed. When the number of activities is less than 4, all must be completed.
6. The required minimum means achieving a ratio of completed and certified manipulations and skills, as follows:
 - For pre-clinical disciplines, achieving 80% of „*Demonstrated, taught and explained*“ and 20% of „*Done under instructor's supervision*“;
 - For clinical disciplines, 25% of „*Demonstrated, taught and explained*“ and 75% of „*Done under instructor's supervision*“.
7. Where an exact percentage distribution is not possible or applicable, the required minimum is rounded up in favour of „*Demonstrated, taught and explained*.“ It is accepted if the student completes „*Done under instructor's supervision*“ but not vice versa.
8. It is highly recommended that completion of the skills be closely integrated with the study process, as well as with the certification of intramural and extramural study.
9. Certification of skills is performed during practical class periods, clinical duties, trainings, when receiving credits, etc.
10. The completion and certification of skills is conducted throughout the entire study period, no later than taking state exams.
11. Periodically, every student shall scan and keep a backup copy of the logbook, which is to serve as proof in case the logbook itself is lost or destroyed.
12. At the time of beginning their studies at the FVM, students transferred from other faculties/universities can receive recognition of activities related to disciplines completed at the other institution, if they correspond to those taught at the FVM, Stara Zagora.

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FUNDAMENTAL AND PRECLINICAL SUBJECTS

Genetics and molecular biology – subject codes for certification VM.01.01, VM.04.07, VM.01.09

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Determination of the way of inheriting various genetic diseases, incl. susceptibility to genetic disorders and diseases				
2	Development of breeding schedules on the basis of various quantitative and qualitative genetically determined traits				
3	Reading pedigree charts. Evaluation of inbreeding coefficient				
4	Molecular biology – assay methods and contribution of fundamental and applied studies to veterinary research				
5	Understanding fundamental concepts of several cell functions at molecular level				
6	Laboratory skills related to DNA extraction from various tissues, PCR and agar gel electrophoresis programming				

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**Zoology and ecology – subject codes for certification
AF.20.01, VM.01.02**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of the main groups of animals on our planet (with emphasis on biology of species with relevance as parasites and vectors of human and animal diseases), and of main principles of zoological classification and nomenclature. Acquisition of general idea on the Bulgarian animal kingdom				
2	Knowledge of plant and animal populations, plant and animal communities and ecosystems				

Medicinal chemistry - subject code for certification VM.02.01

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Acquisition of fundamental chemistry knowledge and skills as a background for further research in field related to veterinary science, including but not limited to biochemistry, physiology and pharmacology				
2	Understanding of theoretical concepts and ability to solve medicinal chemistry problems				

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3	Mastering of qualitative, quantitative and instrumental methods for analysis of biologically active substances, raw materials, products and intermediate products of natural and synthetic origin				
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**Nutrition and agronomy - subject codes for certification
VM.01.04, AF.23.01, VM.01.08**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of main groups of animal feeds and fodders				
2	Composition of diets for various animal species and animal categories				
3	Knowledge of main principles of dietetic feeding				

Biostatistics - subject codes for certification AF.21.04

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of the significance of biostatistics				
2	Mastering of a biostatistical method				

**Ethology and animal hygiene - subject codes for certification
VM.01.05, VM.01.10**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of the production systems and healthy animals' hygiene				

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2	Knowledge of animal behaviour and animal protection				
3	Knowledge of rearing technology and hygiene of different species and categories of healthy animals				
4	Recognition of normal and abnormal animal behaviour				
5	Knowledge of main principles of animal protection and welfare				
6	Knowledge of legislation and normative acts related to animal husbandry (incl. transport), protection and welfare				
7	Determination and evaluation of micro-climatic parameters in animal facilities				

Anatomy and histology - subject codes for certification
VM.04.01, VM.04.02, VM.04.05

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of the main anatomical features of different animal species				
2	Knowledge of the topographic anatomy of animals				
3	Knowledge of main approaches to specific organs and regions in animals				
4	Comparative topographic analysis of various animal species				
5	Identification of macroscopic preparation, dummy and model				

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6	Basic knowledge of animal body's histomorphometric structure- tissue types, genesis of specific organs				
7	Elaboration of a histological preparation				
8	Knowledge of electron microscopy technique and electron microscope construction				
9	Knowledge of macro- and microscopic structure of placentas				

Animal physiology - subject codes for certification
VM.02.02, VM.02.08

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of main physiological processes in animals				
2	Skills for work with specialised software for registration, processing and analysis of main physiological parameters				
3	Determination of counts and genera of rumen content ciliates in healthy ruminants				
4	Interpretation of haematological analysis data in different animal species				
5	Main concepts and skills in ECG recording and analysis in healthy animals				
6	Mastering of methods for investigation of cardiovascular effects of physical exercise				

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7	Mastering of methods for investigation of cardiorespiratory effects of physical exercise				
8	Veterinary medical aspects of interpretation of physiological deviations in vital parameters				

Biochemistry - subject codes for certification
VM.02.03, VM.02.05

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Application of theoretical knowledge in understanding biochemical processes				
2	Mastering of existing methods with application in medicine, veterinary medicine, ecology and agrarian science				
3	Mastering of skills related to: biochemical analyses of blood samples, chromatographic techniques, spectrophotometric techniques, modern analytical methods (e.g. HPLC, spectroscopy, urinalysis etc.)				
4	Skills for analysis and interpretation of obtained results				

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Functional pathology / Immunology / Organisation of experiments - subject codes for certification VM.07.01, VM.07.02, VM.07.03

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Modelling of some pathological processes – fever, hypoxia, acid base and electrolyte disturbances, hypo- and hyperglycaemia, systemic functional pathological changes				
2	Knowledge of methods for analysis of cell and humoral immune response				
3	Evaluation of laboratory animals' welfare				
4	Restraint of laboratory animals				
5	Application of drugs/substances in laboratory animals				
6	Evaluation of pain in small rodents and analgesia				
7	Differential blood cell counts (manual counting)				
8	Performance of rapid diagnostic tests (agglutination/precipitation)				
9	Agglutination titre determination				

Pharmacology and pharmacy - subject codes for certification VM.02.04, VM.02.07

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Prescription writing with choice of drugs, drug form for a specific disease and calculation of individual patient(s) dose				

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2	Knowledge, skills and competence for responsible and reasonable use of veterinary drugs for treatment of animals and ensuring safety along the food chain and for the environment				
3	Access to appropriate sources of data about licensed drugs				
4	Correct and responsible prescribing and dispensing drugs in line with legislation and up-to-date trends				
5	Knowledge and reporting supposed adverse effects				

Veterinary microbiology - subject codes for certification
VM.08.01, VM.08.14

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Acquisition of skills and habits for safe work in the microbiological laboratory				
2	Work with light microscope (dry objective and oil immersion microscopy).				
3	Elaboration of microscopic preparations				
4	Staining microscopic preparations				
5	Preparation and sterilisation of laboratory glassware, nutrient media and biological material				
6	Inoculation and reinoculation of bacterial pathogenic samples in liquid and solid nutrient media				

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7	Isolation of pure cultures				
8	Determination of total microbial counts per volume unit				
9	Determination of microbial sensitivity to chemotherapeutics (diffusion method and serial dilution method)				
10	Acquaintance with agglutination, precipitation reactions, ELISA				
11	Collection, storage and sending pathological specimens for bacteriological and mycological examination				

**Veterinary virology - subject code for certification
VM.08.02**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Acquisition of skills and habits for handling virus-containing specimens				
2	Acquisition of practical skills for safe work with virus-containing specimens				
3	Knowledge of methods for collection of appropriate material for virological and serological analysis				
4	Acquisition of practical habits for proper storage and primary processing of virus-containing specimens				
5	Acquisition of practical habits for microscopic examination				
6	Acquisition of practical skills for the main methods of infection of avian embryos				

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7	Acquisition of practical habits for preparation of components and performance of the haemagglutination test for detection of viruses and viral antigens				
8	Acquisition of practical habits for preparation of components and performance of the haemagglutination inhibition test for detection of viral antibodies				
9	Acquisition of practical habits for preparation of components and performance of the immunodiffusion test for detection of antibodies and viral antigens				

**General and clinical pathology - subject codes for certification
VM.07.03, VM.07.04**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Skills for performing necropsy and knowledge of necropsy protocols in the main farm animal and poultry species incl. ruminants, equids, pigs, dogs, cats, birds, with diagnostic, research and confirmation purposes				
2	Elaboration and filling in of a necropsy protocol				
3	Collection and embedding of material for histological examination from different organs and tissues of dead animals for diagnostic purposes				
4	Knowledge of the typical pathognomonic post mortem changes in different infectious and non-infectious diseases for diagnostic purposes				

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CLINICAL COURSES

General skills – attested by instructors from all clinical departments - subject codes for certification VM.09.04, VM.10.01, VM.10.03, VM.11.02, VM.09.05, VM.09.05, VM.10.05, VM.10.06, VM.09.07, VM.08.05, VM.08.09, VM.11.03, VM.09.12, VM.09.09, VM.12.01

N o	Skill, manipulation, subject	Date, time period	Demonstrated , taught, explained	Date, time period	Done under instructor's supervision
1	Measurement of rectal temperature of domestic animals				
2	Determination of heart rate				
3	Examination of conjunctivas in domestic animals				
4	Blood sampling from different animal species				
5	Per os administration of drugs				
6	Rectal administration of drugs				
7	Urinary bladder catheterisation				
8	Placement of peripheral intravenous catheter				
9	Administration of sub-cutaneous injections				
10	Administration of intramuscular injections				
11	Administration of intravenous injections				
12	Performance of intravenous infusion				
13	Intraperitoneal administration of drugs				
14	Administration of enema				
15	Epidural anaesthesia				
16	Interpretation of results from haematological and biochemical analyses				

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Biology and diseases of hydrobionts - subject code for certification VM.06.02

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of main hydrobiont species				
2	Diagnosis of main diseases in hydrobionts				
3	Collection of sample for laboratory analysis for diagnostics of hydrobionts' pathology				

Biology and diseases of bees and silkworms - subject code for certification VM.08.03

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of main diseases affecting honey bees				
2	Knowledge of main diseases affecting silkworms				
3	Collection of sample for laboratory analysis from diseased bees and silkworms				

Obstetrics, reproduction and reproduction disorders - subject codes for certification VM.11.02, VM.11.02, VM.11.06, VM.10.09, VM.11.03, VM.11.05, VM.09.12, VM.09.09, VM.12.01

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Andrological examination of a male breeder				
2	Sampling and macroscopic evaluation of semen				
3	Microscopic evaluation of semen in native preparation				

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4	Resuscitation of cryoconserved semen				
5	Artificial insemination of large ruminants and small ruminants				
6	Gynaecological examination				
7	Vaginal examination in large ruminants				
8	Rectal examination and detection of uterine and ovarian parameters in large ruminants				
9	Ultrasonography of the genital tract of cows				
10	Ultrasonography of the genital tract of another animal species				
11	Pregnancy detection in large ruminants – rectal examination				
12	Pregnancy detection in carnivores via transabdominal ultrasonography				
13	Vaginal drug delivery				
14	Vaginal lavage				
15	Bimanual catheterisation of cows				
16	Obstetric examination				
17	Foetal viability determination				
18	Obstetric help through extraction				
19	Caesarean section				
20	Foetotomy				
21	Obstetric help through drug administration				
22	Repositioning of caudal dislocation of genital organs				

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23	Retention suturing in caudal dislocation of genital organs				
24	Clinical udder examination				
25	Indirect determination of somatic cell counts using a rapid mastitis test				
26	Intracisternal drug delivery				
27	Collection of sterile milk sample for microbiological examination				
28	Processing of a preparation for cytological diagnosis				
29	Physical examination of newborns				

Internal non-contagious diseases - subject codes for certification VM.09.04, VM.09.05, VM.09.05, VM.11.03, VM.09.12, VM.09.09, VM.12.01

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Restraint of different animal species				
2	Skin temperature measurement				
3	Skin elasticity measurement				
4	Palpation of superficial lymph nodes				
5	Heart palpation				
6	Heart percussion				
7	Heart auscultation				
8	Pericardial puncture				
9	Venous pressure measurement				
10	Blood samples primary processing and conservation				

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11	Preparation of a blood smear				
12	Respiratory rate examination				
13	Cough provocation				
14	Inspection of the nasal mucosa				
15	Inspection of the larynx				
16	Lung percussion				
17	Lung auscultation				
18	Chest palpation				
19	Thoracocentesis				
20	Mouth opening				
21	Oral cavity lavage				
22	Nasoesophageal tube placement				
23	Rumen palpation				
24	Stomach, rumen, crop probing				
25	Stomach, rumen, crop lavage				
26	Collection of gastric, ruminal and crop contents				
27	Abdominal palpation				
28	Abdominal auscultation				
29	Abdominocentesis				
30	Rumenocentesis				
31	Placement of temporary and permanent rumen magnet cage				
32	Tests for foreign body detection				
33	Liver percussion				

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34	Rectal examination (horse, cattle)				
35	Urinary bladder lavage				
36	Cystocentesis				
37	Urine conservation and preparation for laboratory analysis				
38	Deep reflex tests				
39	Superficial reflex tests				
40	Vegetative reflex tests				
41	Lavage of perianal sinuses in dogs				
42	Intraruminal drug delivery				

Epidemiology, infectious diseases and preventive medicine - subject codes for certification VM.08.04, VM.08.05, VM.08.10

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Collection of blood samples from large & small ruminants and pigs for diagnosis of infectious diseases				
2	Primary processing and conservation of blood samples for diagnosis of infectious diseases				
3	Collection, storage, sending and transportation of samples for diagnosis bacteriological, virological and mycological studies from live animals, organ specimens and the environment				
4	Tuberculin test in large ruminants				
5	Ocular allergy diagnostic testing				
6	Tuberculin test in swine				

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7	Tuberculin test in birds				
8	Development of disinfection programmes in livestock premises and animal hospitals. Planning, organisation, implementation and reporting disinfection activities				
9	Development of programmes for harmful rodents control in livestock premises and animal hospitals. Planning, organisation, implementation and reporting deratisation activities				
10	Development of bio-security programmes in livestock premises with identification and management of critical control points				
11	Creation of safe conditions for examination and treatment of animals with respect to protection of veterinarians and support staff from zoonoses				
12	Elaboration and implementation of algorithm for treatment of animals with infectious, incl. zoonotic and contagious diseases with protection of health and safety of veterinarians and support staff				
13	Proper use and disposal of personal protective equipment				
14	Acquaintance with and performance of rapid field tests for diagnosis of infectious diseases, collection of appropriate samples and interpretation of results				

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15	Recognition of epidemiological features and clinical signs of notifiable and/or zoonotic infectious diseases				
16	Elaboration of prevention biosafety programmes in the veterinary practice in line with approved standards for control of zoonoses and public healthy protection				

Veterinary surgery - subject codes for certification VM.10.01, VM.10.03, VM.10.05, VM.10.06, VM.11.03, VM.10.02, VM.09.12, VM.09.09, VM.12.01

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Taking clear and accurate surgical disease history from a pet patient				
2	Safe and humane restraint and casting in different animal species (horse, ruminant, pet)				
3	Participation in sterilisation of various surgical materials and consumables				
4	Preparation of the operating field				
5	Preparation of hands prior to operation				
6	Suture of the skin				
7	Wound dressing				
8	Making an immobilisation bandage				
9	Control of bleeding				

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10	Wound toilet and management				
11	Puncture or incision of abscess/phlegmon/haematoma/lymphoextravasation				
12	Determination of patient's anaesthesiological risk				
13	Sedation of a pet/farm animal/equid				
14	Regional anaesthesia of n.cornualis in large ruminants				
15	Intubation of a dog or cat				
16	Anaesthesia monitoring or anaesthetic record filling				
17	Emergency care, participation in different emergency states and reanimation, minimum skills in life-threatening conditions				
18	Participation in humane pet euthanasia and recognition of causes that necessitate it				
19	Complete ophthalmological examination of a pet				
20	Intraocular pressure measurement				
21	Performing a Schirmer's tear test				
22	Slit lamp examination				
23	Direct or indirect ophthalmoscopy				
24	Performing a fluorescein eye stain test				
25	Application of eye drops and ointments				
26	Complete dental examination of a pet				
27	Dental tartar cleansing				
28	Tooth extraction				

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29	Cleansing of external ear canal and local drug application				
30	Otoscopy				
31	Complete orthopaedic examination of a pet				
32	Performing tests for cranial cruciate ligament rupture				
33	Performing tests of reflexes and sensitivity in a pet				
34	Participation in castration surgery				
35	Processing of a hoof				
36	Decornuation				
37	Radiological examination				
38	Collection, storage and transportation of ear canal samples for microbiological examination				
39	Collection, storage and transportation of conjunctival samples for microbiological examination				
40	Collection, storage and transportation of wound/fistular canal samples for microbiological examination				
41	Fine-needle biopsy				
42	Application of physiotherapeutic treatment modality				
43	Skills for work with clinical software				
44	Urinary bladder catheterisation of a pet				
45	Collection of urine from a pet/farm animal/equid for analysis using an appropriate method				

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**Parasitology and invasion diseases - subject codes for
certification VM.08.06, VM.12.01, VM.08.09**

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Helminthoscopy and diagnostic dehelminthisation				
2	Helminthovoscopy				
3	Flotation techniques for helminth eggs detection				
4	Sedimentation techniques for helminth eggs detection				
5	Combined techniques for helminth eggs detection				
6	Quantitative methods for helminth eggs detection				
7	Helmintholarvoscopy				
8	Detection of helminthic larvae in faecal samples				
9	Detection of helminthic larvae in blood samples				
10	Detection of helminthic larvae in the skin				
11	Helminthological diagnostics in mammals and birds				
12	Preparation and examination of native preparations from blood, secretæ, excreta, faeces, hanging drop test for detection of protozoa				
13	Preparation and staining of blood smears according to Giemsa, May-Grünwald-Giemsa and the express Hemacolor method for detection of protozoa				

Student ID number:

14	Flotation techniques for detection of coccidia				
15	Staining techniques for detection of cryptosporidia, giardia and amoebae				
16	Utilisation of rapid immunological tests for diagnosis of helminthic and protozoan diseases				
17	Differentiation of ticks from insects				
18	Identification of ixodid tick genera и				
19	Removal of ixodid ticks from men and animals				
20	Examination for scabies mites: collection of material, processing, observation and interpretation of findings				
21	Identification of parasitic insects				
22	Diagnostics of stationary ectoparasitoses				

Game diseases - subject code for certification VM.09.10

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Identification of main wild animal species				
2	Knowledge of principal diseases in wild animals				
3	Specific techniques for drug administration in wild animals				
4	Collection of samples for laboratory analysis from wild animals				

Student ID number:

Veterinary legislation and management - subject codes for certification VM.06.13, VM.06.06, VM.06.08

N o	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Understanding and applying ethical principles for work with animals, team work with colleagues and efficient communication with clients, colleagues, veterinary authorities and society				
2	Knowledge of the actual structure, organisation and functions of regulatory veterinary authorities				
3	Application of actual legal framework with respect to: animal health and welfare, transport of animals, veterinary products, animal by-products, feeds, practicing the veterinary profession				
4	Reporting problems with animal health and welfare, transport of animals, veterinary products, animal by-products, feeds, practicing the veterinary profession				
5	Preparation and maintenance of accurate documentation for patients, facilities, veterinary practices and clients, including: patient record book, letters for sample analysis, identification and registration of animals, reporting forms, registration of farms, veterinary practices, retail trade services				

Student ID number:

6	Recognizing cases of animal cruelty				
7	Preparation of veterinary forensic expert report				

PRODUCTIVE ANIMAL HUSBANDRY

Animal husbandry - subject codes for certification VM.01.01, VM.01.03

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Breed identification on the basis of phenotype and productive traits				
2	Approach, handling and humane restraint of patients				
3	Skills for instructing people which may assist the veterinarian in performing different activities				
4	Evaluation of physical condition, welfare and body condition of an animal or group of animals				
5	Delivering client consultation on rearing and feeding principles				
6	Evaluation of the condition and behaviour of animals and their physiological needs, including healthy animals				
7	Knowledge of the animal husbandry business				
8	Observation and evaluation of good husbandry practices according to specificity of the animal species and breed				

Student ID number:

**Herd health management - subject codes for certification
VM.12.02, VM.12.01**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Proficiency in methods for herd health monitoring				
2	Proficiency in methods for control and prevention of diseases in herd animals				
3	Proficiency in specific methods and approaches for herd health analysis and herd diagnostics				
4	Economic aspects of herd health. Solving problems at the herd level				
5	Herd health management				

**ANIMAL FOODSTUFFS SAFETY AND QUALITY - subject codes
for certification VM.06.03, VM.06.11, VM.06.04, VM.06.05**

No	Skill, manipulation, subject	Date, time period	Demonstrated, taught, explained	Date, time period	Done under instructor's supervision
1	Knowledge of the primary regulatory framework related to food safety				
2	Knowledge of the main requirements for humane slaughtering of animals				
3	Ante mortem inspection and decision for slaughtering				
4	Post mortem inspection in case of identified disease				

Student ID number:

5	Sensory analysis and main physicochemical and microbiological analyses of animal foodstuffs				
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The content and distribution of theoretical and practical training among the different groups of subjects is balanced and coordinated in a way to ensure that graduating veterinarians are able to fulfill their professional roles in different fields.

Certification by the FVM Student Affairs Office

1. Presenting a new Logbook at start of studies:

.....
(date, signature, seal)

2. All activities in the Logbook have been completed:

.....
(date, signature, seal)

STUDENT'S LOGBOOK FOR ACQUIRED PRACTICAL SKILLS AND COMPETENCE DURING THE VETERINARY MEDICINE TRAINING COURSE

TRAKIA UNIVERSITY, FACULTY OF VETERINARY MEDICINE
The Logbook is approved by Protocol 22 of 13 December 2021
on Faculty Council meeting of the FVM, Trakia University

Publishing house: „PECHATNITSATA“ LTD, Stara Zagora, 2022
Size: 60/84/16, 2 quires, circulation – 1100 pcs.