# Description of the study programme Animal Hygiene and Environment in the third level in the part-time form of study in Slovak language

The name of the university:
University of Veterinary Medicine and Pharmacy in Košice
The seat of the college:
Komenského 73, 041 81 Košice
College identification number:
00397474

The college's authority to approve of the study programme: Accreditation Committee of UVMP in Košice

Date of approval or modification of the study programme:

26. 8.2022

Date of the last change of the study programme description:

11.8.2022

Decision No. 2021/57:2372-OAC of 18th June 2021, Slovak Accreditation Agency for Higher Education grants the right without time limitation

ID of the proceeding: 16727

The name of the university: University of Veterinary Medicine in Košice

The Name of the study programme: Animal Hygiene and Environment

Level of the study: Level 3 Code of the study programme: 12249

#### 1. Basic data about the study programme

a) The name of the study programme and the number according to the register of study programmes:

Animal Hygiene and the Environment, code 12249, Decision number 2021/57:2369-OAC

- b) Level of higher education and ISCED-F code of education level: Level 3/864
- c) Venue of the study programme: the University of Veterinary Medicine and Pharmacy in Košice:

The University of Veterinary Medicine in Košice, Komenského 73, 041 81 Košice

- d) The field of study in which a higher education is obtained by completing the study programme, ISCED-F code of the field: Veterinary medicine/0841
- e) Type of study programme: Academically oriented
- f) Academic title awarded:

Philosophiae doctor (abbreviated PhD.)

- g) Form of study: Part-time
- h) The language in which the study programme is conducted: Slovak language
- i) Standard length of study in academic years:5 academic years
- j) Capacity of the study programme: planned number of students according to the dissertation topics: 0, actual number of applicants in the last 6 years: 0; number of PhD degrees awarded in the last 6 years: 0
- k) Information about the study programme: https://qa.uvlf.sk/sprg\_info/?sprg\_id=63&ar=20222023

#### 2. Graduate profile and learning objectives

a) The learning objectives achieved in the study programme Animal Hygiene and the Environment are methodologically based on the European Qualifications Framework for Lifelong Learning (EQF). The Framework defines the requirements for learning outcomes for knowledge, skills, responsibility and independence.

For level 8, the required learning outcomes include *highly specialised knowledge*, *some of which is at the forefront of the field of work or study*.

The core knowledge is provided on core courses, in particular in the field of livestock and pet animal breeding, toxicology, the environment in terms of its pollution, the impact of biological (microorganisms, parasites, pests), physical (radiation, noise, etc.) and chemical pollution on the individual components of the environment or ecosystems. The focus of the courses, the core knowledge and the required skills are described in detail in the syllabi of the compulsory courses. Additional knowledge is gained by completing compulsory optional courses from related fields of study - analysis of contaminants, microbiology in animal hygiene and in individual environmental components including waste. Other complementary courses are environmental parasitology, ecotoxicology and ecoproduction of forages and feedstuffs. By studying the above compulsory and compulsory optional courses, the student is familiarized with the overview of the impact of negative factors (biological, physical and chemical) on the health of animals and their healthy breeding (including bees), on all components of the environment, learn about the behaviour of chemical substances in the environment, study methods of assessing biological, physical and chemical risks to animals and ecosystems and the environment as a whole.

The graduate acquires extensive knowledge in several areas of the study programme which will later serve as a basis for research and development in the field of animal hygiene and environment. The study programme emphasizes the latest theoretical knowledge and new scientific methods and practical skills based on the current state of scientific knowledge in individual areas of animal hygiene and environment.

The studies build on the knowledge acquired at the second-level of higher education, in particular veterinary and medical faculties (universities), pharmaceutical, natural sciences, or other faculties of medicine and natural sciences. The knowledge on the third level includes information on livestock and pet animal husbandry, toxicology, the environmental protection, the impact of biological (microorganisms, parasites, pests), physical (radiation, noise, etc.) and chemical pollution on the individual components of the environment or ecosystems. Particular attention is paid to knowledge in the field of zoohygiene (hygiene of animal husbandry), toxicology, ecotoxicology, radiobiology, animal welfare, veterinary

ethology, the production of quality or safe feed and fodder and the system of organic farming. It also focuses on the acquisition of the latest knowledge in the study of investigative, analytical, mathematical and statistical methods used in scientific work and in the assessment of the risk of physical, biological and chemical factors on animals and the environment.

For level 8, the most 'advanced and specialised **skills** and techniques, including the ability to synthesise and evaluate, are required to solve fundamental problems in research, are also needed in innovation and to extend and redefine existing knowledge on the subject.

The graduate of the study programme Animal Hygiene and Environment is qualified to perform highly qualified activities in state administration, research, veterinary care, environmental protection, organic agriculture, ecological and health-safe breeding of domestic and wild animals as well as bees. Graduates of the study programme Animal Hygiene and Environment are able to carry out expert activities and act as specialists or highly educated experts studying the issues of environmental protection, animal breeding and health, quality and health safety of food, feed, organic farming and veterinary medicines, etc.

The graduate of the study programme Animal Hygiene and Environment may hold any position in public veterinary medicine organisation or work as an expert at theoretical-cognitive, methodological and political-practical level. On the basis of the knowledge of theoretical possibilities, practical skills, methodological skills, graduates will be able to solve existing problems in the field of protection and recovery of the environment, in the field of healthy and ecological animal husbandry with minimal impact on the environment, to minimize the negative impacts of animal husbandry while promoting its benefits on the environment, to assess and minimize the risks of physical, biological and chemical factors at the current level of scientific knowledge.

The graduate is able to formulate scientific problems (experimental, health, legal, environmental, ethical and other social aspects) to carry out creative and independent research in his/her field and independently present the results of his/her work in internationally accepted journals or present them at scientific events. The results of creative work not only contribute to the development of science and scientific knowledge, but they can also be used their in human and veterinary medicine and agriculture.

Responsibility and autonomy, defined for Level 8, is "the ability to display considerable authority, innovation, independence, scholarly and professional integrity, and a sustained commitment to developing new ideas or practices that are at the forefront of a given work or learning environment, including research."

The graduate is characterized by independent, critical and analytical thinking. He/she takes into account social, scientific and ethical aspects when formulating research intentions and interpreting research results. The results of his/her own creative work contribute to the development of science, scientific knowledge and the usage of acquired knowledge in practice. He/she presents the results of research and development independently to the professional community and is able to determine the focus of research and coordinate a team in the relevant study programme. The graduate is able to independently design, validate and implement new research and working practices based on their outputs and findings.

- b) The graduate of the study programme Animal Hygiene and Environment can work as an expert in basic and applied research, in state administration bodies, in the department of agriculture and environment.
- c) Relevant external interested parties who have provided a statement or a favourable opinion on the compliance of the acquired qualification with the sector-specific requirements for

the Seminar of the profession: State Veterinary and Food Administration of the Slovak Republic - https://qa.uvlf.sk/vsk/docs/vzs\_hchzazp\_svpssr.pdf

#### 3. Job prospects

- a) Based on many years of experience, we can state that graduates find employment mainly in the State Veterinary and Food Administration of the Slovak Republic, in the Chamber of Veterinarians of the Slovak Republic, at universities where veterinary disciplines are taught, at research/diagnostic institutes where diagnostic methods in veterinary medicine and toxicology are implemented. The graduates may also find work in laboratories of the Departments of Agriculture and Environment.
- b) Examples of successful graduates of the study programme are: RNDr. Tatiana Hrušková, PhD., Ing. Vladimír Pitoňák, PhD., MVDr. Raquel Estevao de Matos, PhD., doc. Ing. Iveta Cimboláková, PhD. a MVDr. Martin Staroň, PhD., who work as university teachers or researchers.
- c) Evaluation of the quality of the study programme by employers (feedback): the UVMP has prepared questionnaires on graduates for employers

#### 4. Structure and content of the study programme

- a) The rules for the formation of study plans in the study programme Animal Hygiene and Environment are based on the general provisions contained in Article 8 of the internal regulation <u>Study Guidelines of the UVMP</u>, Part B.
- b) The recommended framework study plan for part-time: <a href="https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg\_id=63">https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg\_id=63</a>

The dissertation examination may be taken by a student who has achieved 50 credits for five CSs and at least 10 credits for two selected OCSs during the study period, no later than 24 months from the start of the PhD studies. A minimum of 240 credits is required for graduation.

- c) The study plan includes:
  - listed individual parts of the study programme (compulsory courses and compulsory optional courses),
  - profile subjects are marked in bold and with an asterisk in the study plan,
  - for each educational part (course), the learning outcomes and the related criteria and rules for their assessment are defined in the information sheet of course so that all the educational objectives of the study programme are met,
  - for each educational part of the study plan (course), the course information sheet sets out the learning activities used that are suitable for achieving the learning outcomes,
  - the course information sheet lists the methods by which the learning activity is carried out,
  - the course information sheet lists the course syllabus,
  - the course information sheet lists the student's workload,
  - the credits allocated to each section based on the learning outcomes achieved and the associated workload.
  - the course guarantor is identified and the course information sheets, if applicable, also identify other persons providing the courses,
  - the place of providing of the course (if the programme of study is delivered at more than one site).

# The course information sheets for the Animal hygiene and environment programme are available via links directly in the study plan:

https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg\_id=63

- d) The number of credits which must be earned to complete the study and other conditions that the student must fulfill to graduate, including the conditions of state exams, rules for retaking courses and rules for extension, interruption of studies:

  The condition for the proper completion of studies is obtaining 240 credits, which include credits for passing the dissertation examination and defending the dissertation. Other conditions that the student must fulfill to complete the studies, including the conditions of state exams, rules for retaking courses and rules for extension, interruption of studies are listed in Articles 2, 15, 18, 19 and 29 of the <a href="Study Guidelines of the UVMP">Study Guidelines of the UVMP</a>, Part B.
- e) Conditions for passing individual parts of the study programme and the student's progress in the study programme :
  - number of credits per core courses required for proper completion of the studies/completion of part of the study: 50
  - number of credits for compulsory courses required for proper completion of the studies/completion of part of the study: 10,
  - number of credits for the dissertation examination: 20
  - number of credits for the defence of the dissertation thesis required for proper completion of studies: 30
- f) Rules regarding student evaluation and the possibility of repeating exams: UVMP in Košice has described the rules regarding student evaluation and the possibility of repeating exams in Articles 17, 18 and 25 of the Study Guidelines of the UVMP, Part B.
- g) Conditions for the recognition of studies or part of studies:
  UVMP in Košice addresses the conditions for recognition of studies or parts of studies in
  Articles 19, 38 and 42 of the Study Guidelines of the UVMP, Part B.
- h) Topics of the PhD theses of the study programme:

Name of the topic of the dissertation in part-time form in Slovak language	YR	Topics
Účinok rádioaktívneho žiarenia a vybraných chemických látok na sacharidový a lipidový metabolizmus modelových zvierat	2004/2005	+
Vplyv chemického znečistenia prostredia na životný cyklus vybraných druhov organizmov	2008/2009	+
Vplyv rizikových prvkov na zdravie zvierat a životné prostredie	2008/2009	+
Stav vodných zdrojov vo významných vodohospodárskych oblastiach v závislosti na kontaminácii životného prostredia	2009/2010	+
Hodnotenie toxikologického a enviromentálneho rizika prípravkov na ochranu rastlín pre zvieratá a ľudí	2009/2010	+
Neriešené problémy v chove spoločenských zvierat v Slovenskej republike	2009/2010	+
Štúdium anxiety a s tým súvisiace problémy správania u psov	2011/2012	+
Účinnosť čistenia odpadových vôd v biologickej čistiarni a jej vplyv na recipient a životné prostredie	2011/2012	+

Monitoring hygienických podmienok chovu hospodárskych zvierat	2011/2012	+
vo vzťahu k výskytu listeriózy		
Ekologický chov hovädzieho dobytka a oviec na Slovensku	2012/2013	+
Vplyv mikroklimatických faktorov na úžitkovosť a zdravotný stav	2013/2014	+
hydiny		
Vplyv vybraných pesticídov a iných chemických látok na vitalitu	2013/2014	+
včelstiev		
Behaviorálne zmeny a bolesť u starnúcich psov	2016/2017	+
Možnosti identifikácie behaviorálnych problémov psov v open-fielde	2016/2017	+
Zisťovanie individuálnych rozdielov v správaní psov behaviorálnymi	2016/2017	+
testami		

#### i) UVMP in Košice has laid down:

- the rules for assigning, processing, opposing, defending and evaluating dissertation theses in Articles 1, 8, 9, 10, 25, 26, 27 and 28 of the Study Guidelines of the UVMP, Part B,
- possibilities and procedures for participation in student mobility in Article 42 of the internal regulation Study Guidelines of the UVMP, Part B,
- Code of Academic Ethics in the internal regulation
   <u>Disciplinary Procedure for Students</u>, in the internal regulation UVMP Employee
   <u>Code of ethics for employees of the UVMP</u> and in the internal regulation <u>Student</u>
   code of ethics at the UVMP,
- procedures applicable to students with special needs in Part II, Article 2, point 7; Article 3, point 12 of the <u>Study Guidelines of the UVMP</u>, Part B,
- the procedures for filing complaints and appeals by the student are specified, in addition to the Study Regulations of UVMP in Košice, in particular in the internal regulation Directive on the handling of complaints at the UVMP.

#### 5. Information sheets of study programme courses

The information sheets of individual courses of the study programme have the structure established by the Decree of the Ministry of Education of the Slovak Republic No. 614/2002 Coll., as amended.

#### 6. Current academic year schedule and current timetable

The current schedule of the academic year and the current class schedule are listed in the bulletin "Information about studying at UVMP in Košice" for the given academic year and are also available on the UVMP's website: <u>Study Guide Book at the UVMP for academic year 2022/2023</u>. PhD students study according to an individual study plan drawn up by the supervisor and the PhD student and approved by the person with the main responsibility for the implementation, development and quality assurance of the study programme.

#### 7. Staff

- a) The person responsible for the implementation, development and quality of the study programme is Prof. Jaroslav Legáth, DVM PhD., who is a tenured professor; employed at the Department of Pharmacology and Toxicology, UVMP in Košice; e-mail <u>jaroslav.legath@uvlf.sk</u> mobile +0421905442824.
- b) List of persons teaching core courses of the study programme: Prof. Jaroslav Legáth, DVM PhD., Department of Pharmacology and Toxicology

Assoc. Prof. Nad'a Sasáková, DVM PhD., Department of Public Veterinary Medicine and Animal Welfare

Assoc. Prof. Katarína Beňová, DVM PhD., Department of Biology and Physiology Gabriela Gregová, DVM PhD., Department of Public Veterinary Medicine and Animal Welfare

Prof. Jana Kottferová, DVM PhD., Department of Public Veterinary Medicine and Animal Welfare

- c) Scientific/artistic/pedagogical characteristics of persons providing profile subjects of the study programme are available on the quality portal of UVMP in Košice and direct links are given in Annex 1 of the internal evaluation report.
- d) List of teachers of the study programme with assignment to the course and link to the central register of university staff, with contact details:

Teacher	Course	e-mail	tel. no.	CRZ		
Core courses						
Prof. Jaroslav Legáth, DVM PhD.	Toxicology and veterinary legislation	jaroslav.legath@uvlf.sk	+421905442824	https://www.portalvs.s k/regzam/detail/2269		
Assoc. Prof. Naďa Sasáková, DVM PhD.	Ecology and environmental protection	nada.sasakova@uvlf.sk	+421915984672	https://www.portalvs.s k/regzam/detail/6090		
Assoc. Prof. Katarína Beňová, DVM PhD.	Environmental radiobiology	katarina.benova@uvlf.sk	+421915984681	https://www.portalvs.s k/regzam/detail/6028		
Gabriela Gregová, DVM PhD.	Animal hygiene and welfare	gabriela.gregova@uvlf.sk	+421917171102	https://www.portalvs.s k/regzam/detail/6132		
Prof. Jana Kottferová, DVM PhD.	Veterinary ethology	jana.kottferova@uvlf.sk	+421915984670	https://www.portalvs.s k/regzam/detail/6055		
	Con	npulsory optional courses	1			
Assoc. Prof. Vladimír Petrovič, DVM PhD.	Analysis of contaminants in food and feed	vladimir.petrovic@uvlf.sk	+421907816486	https://www.portalvs.sk /regzam/detail/6122		
Prof. Juraj Pistl, DVM PhD.	Microbiology in animal hygiene	juraj.pistl@uvlf.sk	+421915984588	https://www.portalvs.s k/regzam/detail/5981		
Assoc. Prof. Tomáš Csank, DVM PhD.	and the environment	tomas.csank@uvlf.sk	+421905480 897	https://www.portalvs.sk /regzam/detail/6133		
Assoc. Prof. Jana Koščová, DVM PhD.		jana.koscova@uvlf.sk	+421905480 897	https://www.portalvs.sk /regzam/detail/6093		
Gabriela Gregová, DVM PhD.	Waste from agricultural and food production	gabriela.gregova@uvlf.sk	+421917171102	https://www.portalvs.sk /regzam/detail/6132		
Prof. Alica Kočišová, DVM PhD.	Environmental parasitology	alica.kocisova@uvlf.sk	+421915984641	https://www.portalvs.s k/regzam/detail/6024		
Assoc. Prof. Gabriela Štrkolcová, DVM PhD.		gabriela.strkolcova@uvlf.sk	+421907798 819	https://www.portalvs.sk /regzam/detail/26622		
Assoc. Prof. Marcel Falis, DVM PhD.	Assoc. Prof. Marcel Falis, DVM PhD.	marcel.falis@uvlf.sk	+421915984682	https://www.portalvs.s k/regzam/detail/6078		
Assoc. Prof. Pavel Nad', DVM PhD.		pavel.nad@uvlf.sk	+421907923235	https://www.portalvs.s k/regzam/detail/6083		

J	Assoc. Prof. Pavel Nad', DVM PhD.	andrej.marcin@uvlf.sk	+421908610382	https://www.portalvs.sk /regzam/detail/6166

e) List of thesis supervisors with assignment to topics (with contact details):

Dissertation topic	Supervisor and contact
Účinok rádioaktívneho žiarenia a vybraných chemických	prof. RNDr. Michal Toropila, CSc.
látok na sacharidový a lipidový metabolizmus modelových	michal.toropila@uvlf.sk
zvierat	
Zisťovanie individuálnych rozdielov v správaní psov	
behaviorálnymi testami	
Vplyv chemického znečistenia prostredia na životný cyklus	prof. MVDr. Miloslav Ondrašovič, CSc.
vybraných druhov organizmov	
Vplyv rizikových prvkov na zdravie zvierat a životné	
prostredie	
Stav vodných zdrojov vo významných vodohospodárskych	
oblastiach v závislosti na kontaminácii životného prostredia	
Účinnosť čistenia odpadových vôd v biologickej čistiarni a jej	
vplyv na recipient a životné prostredie	
Monitoring hygienických podmienok chovu hospodárskych	
zvierat vo vzťahu k výskytu listeriózy	
Vplyv mikroklimatických faktorov na úžitkovosť a zdravotný	
stav hydiny	
Hodnotenie toxikologického a enviromentálneho rizika	prof. MVDr. Jaroslav Legáth, CSc.
prípravkov na ochranu rastlín pre zvieratá a ľudí	jaroslav.legath@uvlf.sk
Vplyv vybraných pesticídov a iných chemických látok	
na vitalitu včelstiev	
Štúdium anxiety a s tým súvisiace problémy správania u psov	prof. MVDr. Jana Kottferová, PhD.
Ekologický chov hovädzieho dobytka a oviec na Slovensku	jana.kottferova@uvlf.sk
Behaviorálne zmeny a bolesť u starnúcich psov	
Možnosti identifikácie behaviorálnych problémov psov	
v open-fielde	
Neriešené problémy v chove spoločenských zvierat v	prof. Ing. Oľga Ondrašovičová, CSc.
Slovenskej republike	

- f) Supervisors of PhD students are university teachers in the position of professor and associate professor in the relevant field of study, scientists with scientific qualification degree I and IIa and other distinguished experts from the Slovak Academy of Sciences. The supervisors are approved by Scientific Board of UVMP.

  Scientific and pedagogical characteristics of thesis supervisors are available on the quality portal of UVMP in Košice through the study plan or directly at <a href="https://qa.uvlf.sk/vupch-viewer/?regzam=X">https://qa.uvlf.sk/vupch-viewer/?regzam=X</a> where X is the employee number on the HE Portal (e.g.. <a href="https://qa.uvlf.sk/vupch-viewer/?regzam/detail/2269">https://qa.uvlf.sk/vupch-viewer/?regzam/detail/2269</a> Employee record on the University portal, <a href="https://qa.uvlf.sk/vupch-viewer/?regzam=2269">https://qa.uvlf.sk/vupch-viewer/?regzam=2269</a> VUPCH employee on the quality portal of UVMP in Košice).
- g) Student representatives who represent the interests of PhD students (name and contact details):

The member of the study programme committee were the students of veterinary medicine Marek Ratvay, DVM e-mail: <a href="mailto:marek.ratvay@student.uvlf.sk">marek.ratvay@student.uvlf.sk</a>; Teodora Blatníková, DVM e-mail: <a href="mailto:teodora.blatnikova@student.uvlf.sk">teodora.blatnikova@student.uvlf.sk</a>; Pavel Gomulec, DVM e-mail: <a href="mailto:pavel.gomulec@student.uvlf.sk">pavel.gomulec@student.uvlf.sk</a>;

- h) Study programme advisor: vice-rector for research and PhD studies at UVMP in Košice
- i) Other study programme support staff assigned study officer: Júlia Jančura, Mgr. e-mail <u>julia.jancura@uvlf.sk</u>; career counsellor: the position of the career counsellor is performed by the PhD student's supervisor.

### 8. Premises, tools and technical equipment

a) List and characteristics of the study programme classrooms and their technical equipment with assignment to learning outcomes and courses:

Course	Characteristics of material and	Pavilion number and
	technical equipment	room designation
Toxicology and veterinary legislation	Standard laboratory equipment, analytical sets, spectrophotometers, thin layer chromatography equipment, stereoscope, microscope, camera, histology equipment including microtome, imaging, staining equipment, analytical and evaluation software.  Material and equipment for animal dissection or for further diagnostic laboratory methods/examinations: sledge microtomes (pfm Slide 2003 - pfm medical Germany and Histoslide 2000, Leica - Reichert - Jung), Shandon Citadel - tissue processor, watering device WD4, light microscopes with camera: MOTIC + photocamera MOTICAM 2330, NICON Eclipse Tí + photocamera), thermostat, refrigerator, laminar box, PCR box, centrifuge and cytocentrifuge, thermocycler for PCR, CO2 incubator, deep freezer box.	Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311; Pavilion 4: Department of Pharmacology and Toxicology
Ecology and environmental protection	Laboratory for microbiological analysis of water samples, excreta, etc., analysis of bacteriological swabs to check the effectiveness of disinfection (nutrient media, petri dishes, etc.).  Laboratory for chemical analysis, pH and Conductometer, Oxymeter (LDO electrode with HQ Series Portable Meters fy. Hach, dryer (105 °C), muffle furnace (550 °C), water bath, spectrophotometer DR 2 800 phy. Hach, reactor for determination of COD, reactor for determination of COD, reactor for determination of COD, reactor for determination of COD. Hach, Digestdahl reactor fy. Hach, case set (VISOCOLOR® ECO for colorimetric testing of drinking water by Merck)	Pavilion No. 3, Department of Public Veterinary Medicine and Animal Welfare - laboratories and practical training room
Environmental radiobiology	Dosimeters of different types	Pavilion 13, Department of Biology and Physiology,

		Seminar room
Animal hygiene and welfare	Laboratory for microbiological analysis of water samples, excreta, etc., analysis of bacteriological swabs to check the effectiveness of disinfection (nutrient media, petri dishes, etc.).  Laboratory for chemical analysis, pH and Conductometer, Oxymeter (LDO electrode with HQ Series Portable Meters fy. Hach, dryer (105 °C), muffle furnace (550 °C), water bath, spectrophotometer DR 2 800 phy. Hach, reactor for determination of COD, tach, Digestdahl reactor fy. Hach, case set (VISOCOLOR® ECO for colorimetric testing of drinking water by Merck), thermometer-humidity meter Testo 625, anemometer Testo 410, luxmeter Testo 540, noise meter Testo, MultiRae, dust meter Casella Microdust, aeroscope MAS100 Eco, modern Multiclear Ety (Erbe Lochema)	Seminar room Pavilion No. 3, Department of Public Veterinary Medicine and Animal Welfare - laboratories and practical training room
Veterinary ethology	readra Multiskan Ex (Erba Lachema  The department has a computer training room (ground floor 5), a chemistry laboratory (1st floor), a room with a camera system for recording behaviour (basement), an Elisa machine, a biochemical and	Pavilion 32, Department of Public Veterinary Medicine and Animal Welfare
Analysis of contaminants in food and feed  Microbiology in animal	haematological analyser (2nd floor)  Standard laboratory equipment, analytical sets, spectrophotometers, thin layer chromatography equipment, stereoscope, microscope, camera, histology equipment including microtome, imaging, staining equipment, analytical and evaluation software.  Material and equipment for animal dissection or for further diagnostic laboratory methods/examinations: sledge microtomes (pfm Slide 2003 - pfm medical Germany and Histoslide 2000, Leica - Reichert - Jung), Shandon Citadel - tissue processor, watering device WD4, light microscopes with camera: MOTIC + photocamera MOTICAM 2330, NICON Eclipse Tí + photocamera), thermostat, refrigerator, laminar box, PCR box, centrifuge and cytocentrifuge, thermocycler for PCR, CO2 incubator, deep freezer box.	Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311; Pavilion 4: Department of Pharmacology and Toxicology
Microbiology in animal hygiene and the environment		

Wasta from agricultural and	Laboratory for microbiological	Pavilion 36: Department
Waste from agricultural and food production  Environmental parasitology	Laboratory for microbiological analysis of water samples, excreta, etc., analysis of bacteriological swabs to check the effectiveness of disinfection (nutrient media, petri dishes, etc.).  Laboratory for chemical analysis, pH and Conductometer, Oxymeter (LDO electrode with HQ Series Portable Meters fy. Hach, dryer (105 °C), muffle furnace (550 °C), water bath, spectrophotometer DR 2 800 phy. Hach, reactor for determination of COD, reactor for determination of COD, reactor for determination of COD, reactor for determination of COD. Hach, Digestdahl reactor fy. Hach, case set (VISOCOLOR® ECO for colorimetric testing of drinking water by Merck) Distillation apparatus Parnas Wagner, Digesdahl, muffle furnace, vacuum furnace, incubator, water bath, analytical balance RAGWAG, sterilizer PS 121 V, steam sterilizer 3850, readra Multiskan Ex (Erba Lachema), densitometer, UV laminar box, densitometer,	Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311; Pavilion 4: Department of Pharmacology and Toxicology  Pavilion No. 2 - second floor: Department of
	electrophoresis, thermocycler, PCR boxes.  ZEISS AXIO; Nikon; Olympus BX41 microscopes with camera, camera, computer and measurement software, and software for professional microscope photography;	floor; Department of Epidemiology, Parasitology and Protection of Common Health, Seminar room 3 Coprology Laboratory L1; Laboratory No. 106 L3 PCR Laboratory Electrophoresis - L4 Autopsy room No. 111 Seminar room 1 and 2 (Pavilion No. 2, first floor)
Ecotoxicology	Standard laboratory equipment, analytical sets, spectrophotometers, thin layer chromatography equipment, stereoscope, microscope, camera, histology equipment including microtome, imaging, staining equipment, analytical and evaluation software.  Material and equipment for animal dissection or for further diagnostic laboratory methods/examinations: sledge microtomes (pfm Slide 2003 - pfm medical Germany and Histoslide 2000, Leica - Reichert - Jung), Shandon Citadel - tissue processor, watering device WD4, light microscopes with camera: MOTIC + photocamera MOTICAM 2330, NICON Eclipse Tí + photocamera), thermostat, refrigerator, laminar box,	Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311; Pavilion 4: Department of Pharmacology and Toxicology

	PCR box, centrifuge and cytocentrifuge, thermocycler for PCR, CO <sub>2</sub> incubator, deep freezer box.	
Eco-production of fodder and forage	Analytical scales KJELTEC analyser SOXLET system HT2	Pavilion No. 12 Department of Animal Nutrition and Breeding,.
	DOSI FIBER Mineralizer MILSTONE 1300 AAS UNICAM DYNAREADER ELISA	Nos 49, 48, 39, 19, 17, 16 and 15

- b) Availability of study materials (access to literature in line with syllabi sheets, access to information databases and other information sources, information technologies, etc.): All literary resources for study outlined in the syllabi are available either in print or electronic form, all information databases purchased and licensed by the university are widely available to students.
- c) Description and scope of distance education in the study programme with per course. Access data, manuals of e-learning portals. Procedures for the transition from in-person to distance learning.
  - UVMP in Košice also provides distance learning for all courses via the MOODLE and MS Teams platforms. Each student can access manuals either in electronic form or in the form of video instructions.
- d) Partners of the university in the study programme and the characteristics of their participation: not the *case*
- e) Characteristics of social, sporting, cultural, spiritual and community facilities: UVMP in Košice provides its students with a wide range of opportunities for all-round enjoyment in all of the above areas (a detailed description is included in the internal evaluation report).
- f) Mobility and internships opportunities (with contact details), application instructions, rules for recognizing this education:
  - Students of the study programme are guaranteed the opportunity to participate in mobilities. The entire agenda containing instructions and conditions for applying for mobility, conditions and rules of participation as well as rules for recognizing mobility as part of the study plan is covered by the Vice-Rector for International Relations and Internationalisation and the organisational unit managed by her, which is the UVMP Mobility Office. The whole process requires coordination with the supervisor, and is recommended after the study part of the study plan has been completed. Participation in mobility and other contexts are regulated in Article 42 of the Study Guidelines of the UVMP, Part B.

## 9. Required abilities and prerequisites of the candidate for the study programme

a) Required competences and prerequisites for admission to study:
They are laid down in Article 1 and Article 2, Part B, Part II Organisation of Studies of the Internal Regulations of the Study Guidelines of the UVMP

b) Admission procedures:

These are laid down in Article 3 and Article 4, Part B, Part II Organisation of Studies of the Internal Regulations of the <u>Study Guidelines of the UVMP</u>. Examination boards for admission examinations are at least 4-member and are appointed by the Rector on an ad hoc basis according to the the study programmes to which students apply.

c) The results of the admissions procedure for the most recent period, which we consider to be the period of the standard length of study (5 academic years):

AR 2017/2018; 0 applicants registered,

AR 2018/2019; 0 applicants registered,

AR 2019/2020; 0 applicants registered,

AR 2020/2021; registered 0 applicant a

AR 2021/2022; 0 applicants registered.

Admissions results for the last 6 years: 3 registered applicants

#### 10. Feedback on the quality of education provided

a) Procedures for monitoring and evaluating students' views on the quality of the study programme:

The students of UVMP in Košice can evaluate the quality of teaching anonymously through an anonymous questionnaire after graduation, where they evaluate the quality of a particular study programme and the quality of the lecturers who provide the course. Monitoring of study programmes is also continuously carried out by the coordinators of individual fields (5) of science and research at UVMP.

b) Results of student feedback and related measures to improve the quality of the study programme:

The feedback and measures to improve the quality of the study programme are part of the Annual Reports on the Educational Activity at UVMP in Košice for individual academic years and the <u>Annual report on activities UVMP 2021</u> for individual academic years. As part of the measures to improve the quality of the study programme, the vice-rector for education, study advisors and coordinators of individual fields of science and research step in and address the issues resulting from the feedback.

c) Results of alumni feedback and related measures for improving the quality of the study programme:

The results of alumni feedback and related measures to improve the quality of the study programme are included in the Annual Reports on the Activities of UVMP in Košice and Annual Reports on the Quality of UVMP in Košice for individual academic years. As part of the study programme quality improvement, the results of graduate evaluations are discussed once a year at the relevant committee for the establishment, modification and periodic evaluation of study programmes, where individual comments and proposals for improving the quality of the study programme are discussed. From the academic year 2022/2023, the UVMP will evaluate the readiness of graduates in the form of an electronic questionnaire for employers, which is available at <a href="https://forms.gle/z1h9u3rd2g9H589P7">https://forms.gle/z1h9u3rd2g9H589P7</a>.

11. Overview of long-term and continuous success in obtaining financial support

11.	<u> </u>						
P.no.	Project number	From	То	Project name	Provider	Principal Investigator / Co-Principal Investigator	
1	APVV-0009-10	2010	2013	Beta-lactamase genes in Enterobacteriaceae in the animal environment and in bioaerosols	RDPA	prof. MVDr. Ján Venglovský, PhD.	
2	1/0415/13	2013	2015	Monitoring 137 Cs in the forest ecosystem in Slovakia.	SGA	Assoc. Prof. Katarína Beňová, DVM PhD.	
3	008UVLF-4/2015	2015	2017	Implementation of new research trends into the methods of education of veterinary students in the subject Behavioural Disorders of Domestic Animals	CEGA	prof. MVDr. Jana Kottferová, PhD.	
4	004UVLF-4/2015	2015	2017	Teaching texts for the subject Forages and poisonous plants	CEGA	Assoc. Prof. Pavel Nad', DVM PhD.	
5	1/0080/15	2015	2018	Study of the ecology and epidemiological role of blood- sucking dipterans (DIPTERA) in the spread of global zoonotic and parasitic pathogens in climate-changing Slovakia	SGA	Prof. Alica Kočišová, DVM PhD.	
6	003UVLF-4/2016	2016	2018	Fundamentals of Ecology and Applied Ecology for UVLF students	CEGA	MVDr. Rudolf Hromada, PhD.	
7	1/0858/16	2016	2018	Negative effect of selected xenobiotics on the larval stage of the honey bee (Apis mellifera)	SGA	Prof. Jaroslav Legáth, DVM PhD.	
8	2/0125/17	2017	2020	Impact of anthropogenic stress on the occurrence of microbial and parasitic organisms in the environment in urban and rural ecosystems	SGA	prof. MVDr. Ján Venglovský, PhD.	
9	APVV-17-0017	2018	2022	Toxicological effects of snake venoms of selected species	RDPA	Prof. Jaroslav Legáth, DVM PhD.	
10	002UVLF-4/2019	2019	2021	Modernizing professional ethics education and improving students' soft skills in the veterinary profession	CEGA	prof. MVDr. Jana Kottferová, PhD.	
11	1/0043/19	2019	2022	Molecular epidemiology and risk of spread of game parasites in current ecological conditions in Slovakia	SGA	Prof. Alica Kočišová, DVM PhD.	
12	001UVLF-4/2020	2020	2022	Applied Ecology for University Students	CEGA	Assoc. Prof. Naďa Sasáková, DVM PhD.	
13	004UVLF-4/2020	2020	2022	Practical Seminar for pharmacists as a tool for improving the quality of university teaching in the subject "Hygiene of medical and pharmaceutical facilities"	CEGA	MVDr. Mária Vargová, PhD.	
14	1/0402/20	2020	2023	Impact of additives in monogastric animal nutrition on production health, production, product quality and the environment.	SGA	Assoc. Prof. Pavel Naď, DVM PhD.	

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CEGA Gabriela Gregová, DVM PhD.

# 12. Links to other relevant internal regulations and information regarding the study or the student of the study programme:

Study Guide Book at the UVMP for academic year 2022-2023

Directive on support of students and applicants to study with specific needs at the UVMP Study guidelines of UVMP in Košice

Annual report on activities UVMP 2021