

Description of the study programme Animal Hygiene and Environment in the third level in the full-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 to the study programme description:

11.8.2022

Decision No. 2021/57:2373-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

The level of the study: Level 3

Code of the study programme: 12246

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 12246, Decision number 2021/57:2373-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:
Full-time
- h) The language in which the study programme is conducted:
Slovak language
- i) Standard length of study in academic years:
4 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: 9; number of PhD degrees awarded in the last 6 years: 4
- k) Information about the study programme:
https://qa.uvlf.sk/sprg_info/?sprg_id=21&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: MVDr. Katarína Veszelits Laktičová, PhD., MVDr. Gabriela Gregová, PhD., MVDr. Ján Kachnič, PhD., MVDr. Michaela Špalková, PhD., MVDr. Tatiana Szabóová, PhD. či MVDr. Noema Gajdoš Kmecová, PhD., who work as university teachers or researchers at UVMP in Košice
- 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 [Study Guidelines of the UVMP](#), Part B.
- b) The recommended framework study plan for full-time:
https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg_id=21

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=21

- 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 [Study Guidelines of the UVMP](#), 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 full-time form in Slovak language	AY	Topics
Hodnotenie čistiacich a dezinfekčných účinkov chemických látok a ich využitie pri sanitácii v potravinárstve	2004/2005	+
Vplyv ionizujúceho žiarenia a vybraných chemických látok na metabolické zmeny u modelových laboratórnych zvierat	2004/2005	+
Synergické účinky ionizujúceho žiarenia a vybraných chemických látok na zmeny metabolických ukazovateľov u modelových zvierat vo vzťahu k životnému prostrediu	2005/2006	+
Rezíduá antikoagulačných ridentícídov v telách ničených hlodavcov a na obilných kultúrach	2005/2006	+
Welfare hovädzieho dobytku v podmienkach ekologických a konvenčných chovov	2006/2007	+
Etologické a psychosociálne interakcie vzťahu človek a pes	2006/2007	+
Riziká tvorby a prežívania bioaerosólov v prostredí živočíšnej výroby a čistiarne komunálnych odpadových vôd	2007/2008	+
Ekologický chov hovädzieho dobytku a oviec na Slovensku	2008/2009	+

Hodnotenie fyziologických a behaviorálnych indikátorov welfare koní pôsobiacich v hipoterapii na Slovensku	2008/2009	+
Sledovanie interakcií účinkov ionizujúceho žiarenia a vybraných polutantov u <i>Artemia franciscana</i>	2009/2010	+
Rezistencia mikroorganizmov na dezinfekčné prostriedky	2009/2010	+
Vplyv ionizujúceho žiarenia a ťažkých kovov na organizmus <i>Poecilia reticulata</i>	2010/2011	+
Hodnotenie behaviorálnych prejavov psov za účelom validizácie testov temperamentu	2012/2013	+
Reziduá rodenticídnych prípravkov po ich aplikácii vo voľnej prírode	2012/2013	+
Výskyt antibiotikorezistentných enterobaktérií v životnom prostredí a bioaerosóloch	2013/2014	+
Hygienické aspekty využitia odpadov v poľnohospodárstve	2014/2015	+
Využitie biotestov II. generácie pri posudzovaní účinku vybraných chemických látok a antibiotík na živý organizmus	2015/2016	+
Toxinogenita a toxicita <i>F. graminearum</i> a možnosti jej eliminácie	2015/2016	+
Behavioural problems of cats: risk factors and social play.	2016/2017	+
Mikrobiálna kontaminácia v prostredí chovu hospodárskych zvierat	2017/2018	+
Analýza zmien niektorých parametrov pri posudzovaní welfare koní	2019/2020	+
Predikcia upotrebenia psa na základe behaviorálneho testovania	2019/2020	+
Molekulová charakteristika vybraných zoonotických druhov a genotypov črevných parazitov v životnom prostredí na Slovensku	2019/2020	+
Sledovanie interakcií humínových látok s vybranými liečivami a pesticídmi v podmienkach in vitro	2020/2021	+
Rozšírenie antibiotiko rezistentných kmeňov <i>Escherichia coli</i> izolovaných z chovu hospodárskych zvierat a životného prostredia	2020/2021	+
Toxicita vybraných liečiv a pesticídov na larválne štádiá včely medonosnej	2020/2021	+
Diverzita a molekulová analýza <i>Nosema</i> spp. u včelstiev na Slovensku v súvislosti s hygienou prostredia	2021/2022	+

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 [Disciplinary Procedure for Students](#), in the internal regulation UVMP Employee [Code of ethics for employees of the UVMP](#) and in the internal regulation [Student 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 [Study Guidelines of the UVMP](#), 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: [Study Guide Book at the UVMP for academic year 2022/2023](#). 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 jaroslav.legath@uvlf.sk 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. Naďa 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.sk/regzam/detail/2269
Assoc. Prof. Naďa Sasáková, DVM PhD.	Ecology and environmental protection	nada.sasakova@uvlf.sk	+421915984672	https://www.portalvs.sk/regzam/detail/6090
Assoc. Prof. Katarína Beňová, DVM PhD.	Environmental radiobiology	katarina.benova@uvlf.sk	+421915984681	https://www.portalvs.sk/regzam/detail/6028
Gabriela Gregová, DVM PhD.	Animal hygiene and welfare	gabriela.gregova@uvlf.sk	+421917171102	https://www.portalvs.sk/regzam/detail/6132
Prof. Jana Kottferová, DVM PhD.	Veterinary ethology	jana.kottferova@uvlf.sk	+421915984670	https://www.portalvs.sk/regzam/detail/6055
Compulsory optional courses				
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.sk/regzam/detail/5981

Assoc. Prof. Tomáš Csank, DVM PhD.	and the environment	tomas.csank@uvlf.sk	+421905480897	https://www.portalvs.sk/regzam/detail/6133
Assoc. Prof. Jana Koščová, DVM PhD.		jana.koscova@uvlf.sk	+421905480897	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.sk/regzam/detail/6024
Assoc. Prof. Gabriela Štrkolcová, DVM PhD.		gabriela.strkolcova@uvlf.sk	+421907798819	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.sk/regzam/detail/6078
Assoc. Prof. Pavel Naď, DVM PhD.	Assoc. Prof. Pavel Naď, DVM PhD.	pavel.nad@uvlf.sk	+421907923235	https://www.portalvs.sk/regzam/detail/6083
Assoc. Prof. Andrej Marcin, BSc. 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):

<i>Dissertation topic</i>	<i>Supervisor and contact</i>
Vplyv ionizujúceho žiarenia a vybraných chemických látok na metabolické zmeny u modelových laboratórnych zvierat	prof. RNDr. Michal Toropila, CSc. michal.toropila@uvlf.sk
Synergické účinky ionizujúceho žiarenia a vybraných chemických látok na zmeny metabolických ukazovateľov u modelových zvierat vo vzťahu k životnému prostrediu	
Využitie biotestov II. generácie pri posudzovaní účinku vybraných chemických látok a antibiotík na živý organizmus	
Hodnotenie čistiacich a dezinfekčných účinkov chemických látok a ich využitie pri sanitácii v potravinárstve	prof. MVDr. Miloslav Ondrašovič, CSc.
Reziduá antikoagulačných ridentícíov v telách ničených hlodavcov a na obilných kultúrach	
Rezistencia mikroorganizmov na dezinfekčné prostriedky	
Reziduá rodenticídnych prípravkov po ich aplikácii vo voľnej prírode	
Etologické a psychosociálne interakcie vzťahu človek a pes	prof. MVDr. Jana Kottferová, PhD. jana.kottferova@uvlf.sk
Hodnotenie fyziologických a behaviorálnych indikátorov welfare koní pôsobiach v hipoterapii na Slovensku	
Hodnotenie behaviorálnych prejavov psov za účelom validizácie testov temperamentu	
Behavioural problems of cats: risk factors and social play.	
Predikcia upotrebenia psa na základe behaviorálneho testovania	
Riziká tvorby a prežívania bioaerosólov v prostredí živočíšnej výroby a čistiare komunálnych odpadových vôd	prof. MVDr. Ján Venglovský, PhD. jan.venglovsky@uvlf.sk
Výskyt antibiotikorezistentných enterobaktérií v životnom prostredí a bioaerosóloch	
Hygienické aspekty využitia odpadov v poľnohospodárstve	

Mikrobiálna kontaminácia v prostredí chovu hospodárskych zvierat	
Welfare hovädzieho dobytku v podmienkach ekologických a konvenčných chovov	prof. Ing. Oľga Ondrašovičová, CSc.
Ekologický chov hovädzieho dobytku a oviec na Slovensku	
Rozšírenie antibiotiko rezistentných kmeňov <i>Escherichia coli</i> izolovaných z chovov hospodárskych zvierat a životného prostredia	MVDr. Gabriela Gregová, PhD. gabriela.gregova@uvlf.sk
Sledovanie interakcií humínových látok s vybranými liečivami a pesticídmi v podmienkach in vitro	doc. MVDr. Marcel Falis, PhD. marcel.falis@uvlf.sk
Sledovanie interakcií účinkov ionizujúceho žiarenia a vybraných polutantov u <i>Artemia franciscana</i>	doc. MVDr. Katarína Beňová, PhD. katarina.benova@uvlf.sk
Vplyv ionizujúceho žiarenia a ťažkých kovov na organizmus <i>Poecilia reticulata</i>	
Toxicita vybraných liečiv a pesticídov na larválne štádiá včely medonosnej	doc. MVDr. Juraj Toporčák, PhD. juraj.toporcak@uvlf.sk
Toxinogenita a toxicita <i>F. graminearum</i> a možnosti jej eliminácie	doc. MVDr. Eva Čonková, PhD. eva.conkova@uvlf.sk
Analýza zmien niektorých parametrov pri posudzovaní welfare koní	doc. MVDr. Daniela Takáčová, PhD. daniela.takacova@uvlf.sk
Molekulová charakteristika vybraných zoonotických druhov a genotypov črevných parazitov v životnom prostredí na Slovensku	doc. MVDr. Alexandra Valenčáková, PhD. alexandra.valencakova@uvlf.sk
Diverzita a molekulová analýza <i>Nosema</i> spp. u včelstiev na Slovensku v súvislosti s hygienou prostredia	

- 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 <https://qa.uvlf.sk/vupch-viewer/?regzam=X> where X is the employee number on the HE Portal (e.g., <https://www.portalvs.sk/regzam/detail/2269> - Employee record on the university portal, <https://qa.uvlf.sk/vupch-viewer/?regzam=2269> - VUPCH employee on the quality portal of UVMP).

- 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: marek.ratvay@student.uvlf.sk; Teodora Blatníková, DVM e-mail: teodora.blatnikova@student.uvlf.sk; Pavel Gomulec, DVM e-mail: pavel.gomulec@student.uvlf.sk

- 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 julia.jancura@uvlf.sk; 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 technical equipment	Pavilion number and 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 + photcamera MOTICAM 2330, NICON Eclipse Tí + photcamera), thermostat, refrigerator, laminar box, PCR box, centrifuge and cytocentrifuge, thermocycler for PCR, CO ₂ 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	Pavilion No. 3, Department of Public Veterinary Medicine and Animal Welfare - laboratories and practical training room

	<p>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), thermometer-humidity meter Testo 625, anemometer Testo 410, luxmeter Testo 540, noise meter Testo, MultiRae, dust meter Casella Microdust, aeroscope MAS100 Eco, readra Multiskan Ex (Erba Lachema</p>	
Veterinary ethology	<p>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 haematological analyser (2nd floor)</p>	Pavilion 32, Department of Public Veterinary Medicine and Animal Welfare
Analysis of contaminants in food and feed	<p>Standard laboratory equipment, analytical sets, spectrophotometers, thin layer chromatography equipment, stereoscope, microscope, camera, histology equipment including microtome, imaging, staining equipment, analytical and evaluation software.</p> <p>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.</p>	<p>Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311;</p> <p>Pavilion 4: Department of Pharmacology and Toxicology</p>
Microbiology in animal hygiene and the environment		
Waste from agricultural and food production	<p>Laboratory for microbiological analysis of water samples, excreta, etc., analysis of bacteriological swabs to check the effectiveness of disinfection (nutrient media, petri dishes, etc.).</p> <p>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,</p>	<p>Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311;</p> <p>Pavilion 4: Department of Pharmacology and Toxicology</p>

	<p>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,</p>	
Environmental parasitology	<p>Centrifuge, Elisa reader, electrophoresis, thermocycler, PCR boxes. ZEISS AXIO; Nikon; Olympus BX41 microscopes with camera, camera, computer and measurement software, and software for professional microscope photography;</p>	<p>Pavilion No. 2 - second 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)</p>
Ecotoxicology	<p>Standard laboratory equipment, analytical sets, spectrophotometers, thin layer chromatography equipment, stereoscope, microscope, camera, histology equipment including microtome, imaging, staining equipment, analytical and evaluation software.</p> <p>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 + photcamera MOTICAM 2330, NICON Eclipse Tí + photcamera), thermostat, refrigerator, laminar box, PCR box, centrifuge and cytocentrifuge, thermocycler for PCR, CO₂ incubator, deep freezer box.</p>	<p>Pavilion 36: Department of Pharmacology and Toxicology - rooms 310, 311; Pavilion 4: Department of Pharmacology and Toxicology</p>
Eco-production of fodder and forage	<p>Analytical scales KJELTEC analyser SOXLET system HT2 DOSI FIBER Mineralizer MILSTONE 1300 AAS UNICAM DYNAREADER ELISA</p>	<p>Pavilion No. 12 Department of Animal Nutrition and Breeding., Nos 49, 48, 39, 19, 17, 16 and 15</p>

- 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 [Study Guidelines of the UVMP](#). 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 (4 academic years):
AR 2018/2019; 0 applicants registered,
AR 2019/2020; 3 applicants registered,
AR 2020/2021; 3 applicants registered a

AR 2021/2022; 1 applicant registered.

Results of the admission procedure for the last 6 years: 9 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 [Annual report on activities UVMP 2021](#) 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 <https://forms.gle/z1h9u3rd2g9H589P7>.

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

P.no.	Project number	From	To	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. Nad'a 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 Nad', DVM PhD.

15	001UVLF-4/2022	2022	2024	Use and implementation of new knowledge in teaching animal hygiene and welfare at the University of Veterinary Medicine and Pharmacy in Košice	CEGA	Gabriela Gregová, DVM PhD.
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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](#)