

## **Description of the study programme Internal diseases of animals in third level in full-time form of study in English 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:

25. 8. 2022

Decision No. 2015-18852/46464:2-15A0 of 30.10.2015. Reference to the results of the most recent periodic evaluation of the study programme by the university: Decision No 2015-18852/46464:2-15A0 of 30 October 2015, award with time limitation (Section 83, § 7) until 31 August 2020

Time restriction lifted *ex officio* on 30 November 2018

ID of the proceeding: 16727

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

The name of the study programme: Internal Diseases of Animals

The level of the study: Level 3

Code of the study programme: 103924

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

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

Internal diseases of animals in the full-time form of study in Slovak language *code* 103924, *Decision number* 2015-18852/46464:2-15A0

b) Level of higher education and ISCED-F code of the level of education:

Level 3/864

c) Place of study programme implementation:

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, or a combination of two study fields 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* (abbreviation PhD.)

- g) Form of study:  
Full-time
- h) The language in which the study programme is conducted:  
Slovak language
- i) Standard length of study expressed in academic years:  
4 academic years
- j) Capacity of the study programme: planned number of students - according to dissertation topics, actual number of applicants in the last 6 years (from the academic year 2016/2017 to the academic year 2021/2022: 11 topic; number of applicants enrolled: 16; number of applicants enrolled and admitted: 11; the number of PhD students in the last 6 years: 18
- k) Information about the study programme:  
[https://qa.uvlf.sk/sprg\\_info/?sprg\\_id=10&ar=20222023](https://qa.uvlf.sk/sprg_info/?sprg_id=10&ar=20222023)

## **2. Graduate profile and learning objectives**

- a) The professional profile of the graduate includes general characteristics, required practical and theoretical knowledge, specification of the core of knowledge in the study programme of Internal diseases of animals. The graduate is proficient in the scientific methods and methodology of research in the field of the study programme Internal diseases of animals, in particular public health aspects of the diseases of livestock, horses, small animals (dogs, cats, fur-bearing animals and other small mammals and reptiles). In the broad field of avian medicine, similar knowledge criteria are required in terms of poultry farming, including ostriches, turkeys and waterfowl, wild and domesticated avian species - pigeons and exotics. The study also includes the diagnostic, preventive and therapeutic aspects of pathogenesis, nutrition, disorders of homeostasis and epidemiology. The graduate develops creative scientific research activity and explores the possibilities of using research results in practical and experimental conditions in diagnostic, therapeutic and preventive procedures in terms of animal health and productive capacity, the economic impact of serious internal diseases and human health. The graduate is familiar with the methodology of analytical work, procedures of processing, objective evaluation of interpretation of results and analyses. He/she is familiar with the up-to-date methods and scientific and practical procedures, proposals and recommendations regarding veterinary, medical, legal knowledge in the field of veterinary care, ethics and ethology as well as interdisciplinary contexts (pathological anatomy, toxicology, epidemiology, food hygiene, breeding and environment and others) in the conditions of the Slovak Republic with as well as on the international level.
- b) Theoretical knowledge of the graduate in the study programme of Internal diseases of animals: methodology in searching for and finding own solutions in the field of a specific discipline and other related disciplines (veterinary physiology, pathophysiology, pathological anatomy, biochemistry, pharmacology, toxicology, immunology, nutrition and dietetics) included in the study programme; the graduate develops, deepens and masters the methodology of analytical work, procedures of processing and interpretation of the obtained results in experimental and practical conditions with regard to qualitative and quantitative evaluation. Practical skills of the graduate in the study programme Internal diseases of animals: follows up on scientific research results and uses them in practice; is able to explain problems and interpret results in the form of publications (peer-reviewed scientific journals), conferences, congresses and symposiums of local and international importance; the ability to present and make use of the results in the educational process

and in the development of the study programme and in social practice; knowledge of the ethical, environmental and economic-legal aspects of the current application of new diagnostic, therapeutic and preventive procedures.

PhD thesis proves that the graduate is able to acquire theoretical and practical up-to-date scientific knowledge independently and especially bring own contribution to the study programme Internal diseases of animals. The core of knowledge of the study programme of Internal diseases of animals in the 3rd level of higher education is divided into the following framework topics: theoretical part and scientific part.

- 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 of the profession: Chamber of Veterinary Surgeons of the Slovak Republic - [https://qa.uvlf.sk/vsk/docs/vzs\\_vchz\\_kvlsr.pdf](https://qa.uvlf.sk/vsk/docs/vzs_vchz_kvlsr.pdf)

### 3. Job prospects

- a) On the basis of the previous experience with graduates of the study programme *Internal diseases of animals*, it can be stated that graduates can work in all veterinary educational institutions, specialized research institutes, national and international organizations operating in the field of animal production, animal welfare, as well as the pharmaceutical industry (research, development and promotion of products for animals).
- b) Examples of successful graduates of the study programme of Internal diseases of animals in the full-time form: MVDr. Adriana Osová, PhD., MVDr. Michal Dolník, PhD., MVDr. Xénia Mihajlovičová, PhD., MVDr. Radka Staroňová, PhD. a MVDr. Róbert Klein, PhD.
- 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 Internal Diseases of Animals 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=10](https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg_id=10)

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 Internal Diseases of Animals are available via links directly in the study plan:**

[https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg\\_id=10](https://qa.uvlf.sk/ais/sp/?ar=2022-2023&sprg_id=10)

- 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:  
UVMP in Košice in the academic year 2019/2020 until now, within the study programme *Internal diseases of animals* offered in Slovak in the full-time form of study, had the following topic of PhD study:

<b>Title of the topic of dissertation thesis in the full-time form of study</b>	<b>AY</b>	<b>Topics</b>
Štúdium atopie psovvo vzťahu k imunomodulácii	2004/2005	+
Štúdium účinku glukoplastických látok na zdravotný a produkčný stav u vysokoúžitkových dojníc	2005/2006	+
Vplyv zinku na mechanické vlastnosti kostí u brojlerových kurčiat	2007/2008	+
Proteíny akútnej fázy ako biomarkery zdravotného stavu a welfare u vybraných druhov voľne žijúcej zveri	2010/2011	+
Výskyt endometritíd u kobýl po prirodzenom pripustení v chove anglického plnokrvníka	2012/2013	+

Vybrané poruchy látkového metabolizmu prežúvavcov	2012/2013	+
Klinická štúdia rizikových faktorov kognitívnych dysfunkcií psov	2012/2013	+
Využitie sérových proteínov v laboratórnej diagnostike ochorení u prežúvavcov	2012/2013	+
Diagnostika, terapia a prevencia porúch pohybového aparátu dojníc	2013/2014	+
Účinok selénu na fertilizačné schopnosti spermii prežúvavcov	2014/2015	+
Antibiotická rezistencia patogénov respiračného aparátu u koní	2015/2016	+
Využitie niektorých laboratórných diagnostických metód pri stanovení porúch zdravotného stavu psov	2015/2016	+
Využitie Holter monitoringu pri diagnostike arytmií u psov	2015/2016	+
Variabilita diagnostických možností v endokrinopatiách u psov	2015/2016	+
Využitie ultrasonografie v diagnostike ochorení hovädzieho dobytká	2015/2016	+
Proteíny akútnej fázy	2015/2016	+
Vplyv zdravotného a kondičného stavu dojníc pred otelením na zdravotný stav počas puerpéria	2015/2016	+
Výskyt endometritíd u kobýl po prirodzenom pripustení v chove anglického plnokrvníka	2015/2016	+
Účinnok antimykotických látok na terapiu dermatomykóz u morčiat	2015/2016	+
Vplyv telesnej kondície a narušenia vnútorného prostredia na reprodukčnú výkonnosť dojníc a možnosti jej ovplyvnenia	2016/2017	+
Možnosti terapie meningoencefalitíd neznámeho pôvodu	2016/2017	+
Etiologické, diagnostické, terapeutické a preventívne aspekty digitálnej dermatitídy hovädzieho dobytká	2018/2019	+
Súčasný trendy v skorej diagnostike chronickej renálnej choroby u psov	2018/2019	+
Kvalita kolostra u dojníc a kolostrálna výživa teliat vo vzťahu k pasívnemu prestupu imunoglobulínov	2018/2019	+
Nové možnosti v diagnostike chronických stavov gastrointestinálneho aparátu psov a mačiek	2018/2019	+
Choroby paznechtov dobytká a ich vplyv na produkciu mlieka a jeho kvalitu	2018/2019	+
Posúdenie súvislosti medzi koncentráciou FGF-23 a SDMA v plazme u neazotemických mačiek a mačiek s rôznou závažnosťou CKD	2019/2020	+
Limity injekčnej anestézie u koní	2019/2020	+
Etiologické, diagnostické, terapeutické a preventívne aspekty neinfekčných chorôb paznechtov hovädzieho dobytká	2020/2021	+
Využitie bielkovín krvného séra v diagnostike ochorení zvierat	2021/2022	+
Klinický význam osteochondrálnych fragmentov sponkového kĺbu koní	2021/2022	+
Nové možnosti terapie chronických gastropatii a enteropatii u malých zvierat	2021/2022	+
Hodnotenie rezistencie ciev reprodukčného aparátu malých zvierat pomocou Dopplerovskej ultrasonografie	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. Pavol Mudroň, DVM PhD. Dipl. ECBHM, who is a tenured professor; working at the Department of Ruminants at the University Veterinary Hospital; e-mail [pavol.mudron@uvlf.sk](mailto:pavol.mudron@uvlf.sk); mobile +421915986901.
- b) List of persons providing profile courses of the study programme:  
Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM; University Veterinary Hospital, Department of Ruminants,  
Prof. Peter Reichel, DVM PhD., University Veterinary Hospital, Department of Swine  
Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM; University Veterinary Hospital, Department of Ruminants,  
Assoc. Prof. Mária Fialkovičová, DVM PhD. , University Veterinary Hospital, Small Animal Clinic,  
Assoc. Prof. Jaroslav Novotný, DVM PhD. , University Veterinary Hospital, Department of Swine
- 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	mobile	CRZ
<b>Profile courses</b>				
<b>Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM</b>	<b>Metabolic diseases</b>	<a href="mailto:pavol.mudron@uvlf.sk">pavol.mudron@uvlf.sk</a>	+421915986901	<a href="https://www.portalvs.sk/regzam/detail/6004">https://www.portalvs.sk/regzam/detail/6004</a>
<b>Prof. Peter Reichel, DVM PhD.</b>	<b>Diseases of the internal organs and musculoskeletal system</b>	<a href="mailto:peter.reichel@uvlf.sk">peter.reichel@uvlf.sk</a>	+en+908976819	<a href="https://www.portalvs.sk/regzam/detail/6141">https://www.portalvs.sk/regzam/detail/6141</a>

Assoc. Prof. Mária Fialkovičová, DVM PhD.	Endocrine and skin diseases	<a href="mailto:maria.fialkovicova@uvlf.sk">maria.fialkovicova@uvlf.sk</a>	+421915986681	<a href="https://www.portalvs.sk/regzam/detail/6018">https://www.portalvs.sk/regzam/detail/6018</a>
Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM.	Production diseases	<a href="mailto:oskar.nagy@uvlf.sk">oskar.nagy@uvlf.sk</a>	+421915986695	<a href="https://www.portalvs.sk/regzam/detail/6036">https://www.portalvs.sk/regzam/detail/6036</a>
Assoc. Prof. Jaroslav Novotný, DVM PhD.	Veterinary gastroenterology	<a href="mailto:jaroslav.novotny@uvlf.sk">jaroslav.novotny@uvlf.sk</a>	+en+915986697	<a href="https://www.portalvs.sk/regzam/detail/6072">https://www.portalvs.sk/regzam/detail/6072</a>
<b>Compulsory optional courses</b>				
Assoc. Prof. Eva Čonková, DVM PhD.	Pharmacotherapy of internal diseases	<a href="mailto:eva.conkova@uvlf.sk">eva.conkova@uvlf.sk</a>	+421915984766	<a href="https://www.portalvs.sk/regzam/detail/6041">https://www.portalvs.sk/regzam/detail/6041</a>
Assoc. Prof. Martin Levkut, DVM PhD.	Pathological morphology of internal organs of animals	<a href="mailto:martin.levkut@uvlf.sk">martin.levkut@uvlf.sk</a>	+421905472877	<a href="https://www.portalvs.sk/regzam/detail/17786">https://www.portalvs.sk/regzam/detail/17786</a>
Prof. Zita Faixová, DVM PhD.	General pathological physiology	<a href="mailto:zita.faixova@uvlf.sk">zita.faixova@uvlf.sk</a>	+421915984704	<a href="https://www.portalvs.sk/regzam/detail/6015">https://www.portalvs.sk/regzam/detail/6015</a>
Assoc. Prof. Iveta Maskal'ová, DVM PhD.	Detection of animal nutritional disorders	<a href="mailto:Iveta.maskalova@uvlf.sk">Iveta.maskalova@uvlf.sk</a>	+421915986726	<a href="https://www.portalvs.sk/regzam/detail/6064">https://www.portalvs.sk/regzam/detail/6064</a>
Assoc. Prof. Radoslava Vlčková, DVM PhD.	Animal endocrinology	<a href="mailto:radoslava.vlckova@uvlf.sk">radoslava.vlckova@uvlf.sk</a>	+421905568676	<a href="https://www.portalvs.sk/regzam/detail/6100">https://www.portalvs.sk/regzam/detail/6100</a>

e) List of dissertation supervisors with assignment to topics (with contacts):

<i>Dissertation topic</i>	<i>Supervisor</i>	<i>Contact (e-mail)</i>
Štúdium účinku glukoplastických látok na zdravotný a produkčný stav u vysokoúžitkových dojníc	prof. MVDr. Peter Reichel, CSc.	<a href="mailto:peter.reichel@uvlf.sk">peter.reichel@uvlf.sk</a>
Diagnostika, terapia a prevencia porúch pohybového aparátu dojníc Účinok selénu na fertilizačné schopnosti spermií prežúvavcov Využitie niektorých laboratórnych diagnostických metód pri stanovení porúch zdravotného stavu psov Využitie Holter monitoringu pri diagnostike arytmií u psov Vplyv zdravotného a kondičného stavu dojníc pred otelením na zdravotný stav počas puerpéria Etiologické, diagnostické, terapeutické a preventívne aspekty digitálnej dermatitídy hovädzieho dobytku Choroby paznechtov dobytku a ich vplyv na produkciu mlieka a jeho kvalitu Etiologické, diagnostické, terapeutické a preventívne aspekty neinfekčných chorôb paznechtov hovädzieho dobytku	prof. MVDr. Pavol Mudroň, PhD., Dip. ECBHM	<a href="mailto:pavol.mudron@uvlf.sk">pavol.mudron@uvlf.sk</a>
Súčasný trendy v skorej diagnostike chronickej renálnej choroby u psov Nové možnosti v diagnostike chronických stavov gastrointestinálneho aparátu psov a mačiek Posúdenie súvislosti medzi koncentráciou FGF-23 a SDMA v plazme u neazotemických mačiek a mačiek s rôznou závažnosťou CKD	prof. MVDr. Miroslav Svoboda, CSc.	<a href="mailto:miroslav.svoboda@uvlf.sk">miroslav.svoboda@uvlf.sk</a>

Štúdium atopie psov vo vzťahu k imunomodulácii	prof. MVDr. Marián Kozák, PhD.	
Proteíny akútnej fázy ako biomarkery zdravotného stavu a welfare u vybraných druhov voľne žijúcej zveri	prof. MVDr. Jozef Bireš, DrSc.	<a href="mailto:jozef.bires@uvlf.sk">jozef.bires@uvlf.sk</a> <a href="mailto:jozef.bires@svps.sk">jozef.bires@svps.sk</a>
Vybrané poruchy látkového metabolizmu prežúvavcov	prof. MVDr. Gabriel Kováč, DrSc.	
Výskyt endometritíd u kobýl po prirodzenom pripustení v chove anglického plnokrvníka Antibiotická rezistencia patogénov respiračného aparátu u koní Proteíny akútnej fázy	prof. MVDr. František Novotný, PhD.	<a href="mailto:framtisek.novotny@uvlf.sk">framtisek.novotny@uvlf.sk</a>
Výskyt endometritíd u kobýl po prirodzenom pripustení v chove anglického plnokrvníka Možnosti terapie meningoencefalitíd neznámeho pôvodu	prof. MVDr. Alexandra Trbolová, PhD.	<a href="mailto:alexandra.trbolova@uvlf.sk">alexandra.trbolova@uvlf.sk</a>
Využitie sérových proteínov v laboratórnej diagnostike ochorení u prežúvavcov Využitie ultrasonografie v diagnostike ochorení hovädzieho dobytku Vplyv telesnej kondície a narušenia vnútorného prostredia na reprodukčnú výkonnosť dojníc a možnosti jej ovplyvnenia Kvalita kolostra u dojníc a kolostrálna výživa teliat vo vzťahu k pasívnemu prestupu imunoglobulínov Využitie bielkovín krvného séra v diagnostike ochorení zvierat	doc. MVDr. Oskar Nagy, PhD., Dip. ECBHM	<a href="mailto:oskar.nagy@uvlf.sk">oskar.nagy@uvlf.sk</a>
Klinická štúdia rizikových faktorov kognitívnych dysfunkcií psov Variabilita diagnostických možností v endokrinopatiách u psov	doc. MVDr. Mária Fialkovičová, PhD.	<a href="mailto:maria.fialkovicova@uvlf.sk">maria.fialkovicova@uvlf.sk</a>
Účinnok antimykotických látok na terapiu dermatomykóz u morčiat	doc. MVDr. Juraj Toporčák, PhD.	<a href="mailto:juraj.toporcak@uvlf.sk">juraj.toporcak@uvlf.sk</a>
Limity injekčnej anestézie u koní	MVDr. Zdeněk Žert, CSc.	<a href="mailto:zdenek.zert@uvlf.sk">zdenek.zert@uvlf.sk</a>
Vplyv zinku na mechanické vlastnosti kostí u brojlerových kurčiat	MVDr. Ladislav Molnár, PhD.	<a href="mailto:ladislav.molnar@uvlf.sk">ladislav.molnar@uvlf.sk</a>

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/6004> - záznam zamestnanca na portáli VŠ, <https://qa.uvlf.sk/vupch-viewer/?regzam=6004> - VUPCH zamestnanca na portáli kvality UVMP v Košiciach).

g) Student representatives who represent the interests of students in the study programme (name and contact details): 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](mailto:marek.ratvay@student.uvlf.sk); Teodora Blatníková, DVM e-mail: [teodora.blatnikova@student.uvlf.sk](mailto:teodora.blatnikova@student.uvlf.sk); Pavel Gomulec, DVM e-mail: [pavel.gomulec@student.uvlf.sk](mailto: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: Mgr. Júlia Jančura, e-mail [julia.jancura@uvlf.sk](mailto:julia.jancura@uvlf.sk); career counsellor: the function 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 the learning outcomes and the course (depending on the workplace of the supervisor and course guarantors)

Course	Characteristics of material and technical equipment	Pavilion number and room designation
Metabolic diseases	Automatic Biochemical Analyzer Alizé - Lisabio, France Hematology analyzer BC 2800Vet, Mindray Spectrophotometer Spekord 210 plus Electrophoretic analyser Hydrasys Sebia BEHNK Coagulometer Coagulometer CL-4 Atomic absorption analyzer with flame AAS Analyst 100, Perkin Elmer Microscope Optics B 192PLi Laboratory microscopes XSP 151 Hettich laboratory centrifuges SonoScape ultrasonograph Fixation cage for small ruminants Fixation cage for large ruminants	P 17 - 26 P 17 - 25 P 17 - 26 P 17 - 25 P 17 - 25 P 17 - 44  P 17 - 25 P 19 - 1048 P 17 - 26 P 19 - 1046 P 18 - 145 P 19 - 1045
Diseases of the internal organs and musculoskeletal system	Technologically adapted barn for clinical and special diagnostic examination of all categories of pigs Fixation cages and devices, endoscope, cystoscope, catheters, specula, surgical kit for procedures (castration, ovariectomy, hernias, caesarean section, adjustment and treatment of papillae). Handy laboratory for urine screening, coprology, dermatology and other rapid laboratory and microscopic examinations Instruments: ECG, USG, hematological and biochemical analyzer, centrifuge, pH meter	P-19 (stables, room 2025) P-17 (new training room, lab 19B)
Endocrine and skin diseases	Haematological examinations are performed on the Pro Cyte IDEXX Dx (IDEXX Laboratories, USA). Blood is processed on an Eppendorf centrifuge. Biochemical examinations are performed on a COBAS c 111 analyzer (Hoffmann-La Roche, Switzerland). Endocrinological examinations are performed in the RIA laboratory to evaluate the parameters TT4, fT4, cortisol, progesterone, IGF 1 and 17-β-estradiol. Cytological examinations are assessed on an Olympus microscope.	P40
Production diseases	Material and instrumentation for the analysis of production animal diseases:	P 17/B P 18 - 145

	laboratory centrifuges Hettich, Microscope Optika B 192PLi, laboratory microscopes XSP 151, biochemical examination of blood serum - Spectrophotometer Spekord 210 plus, automatic biochemical analyzer Alizé - Lisabio, France, hematological examinations - automatic hematological analyzer BC 2800Vet, Mindray, specific examination of serum - electrophoretic analyzer Hydrasys Sebia, Coagulometer BEHnk Coagulometer CL-4, examination of animal mineral profile - Atomic absorption analyzer with flame AAS Analyst 100, Perkin Elmer, examination of organs - Ultrasonograph SonoScape, Endoscope Fritz, technical equipment for fixation of animals - fixation cage for small and large ruminants, cage for treatment of hooves of large ruminants	P 19 - 1045 Housing compartments P 18 and P 19
Veterinary gastroenterology	Material and technical equipment: colonoscope Olympus CF type EI, biochemical analyzer Fujifilm Dri-chem NX600, Animal blood counter Vet abc, pH meter Greisinger G 1500 serie, light microscopes - Optika microscopes	P 19 Clinic of pigs Lecture hall (room for PhD students) 2025
Pharmacotherapy of internal diseases	Seminar room equipped with data projector and computer	P 4
Pathological morphology of internal organs of animals	Staining machine- histopathology; Laminar boxes/ PCR boxes; microtome-2x, autoclave, CO <sub>2</sub> Incubator; thermocycler PCR/ qPCR, homogenizer- Magnalyser; microscopes- optical- Nikon+ camera- Canon; Zeiss fluorescence microscope; cooling, freezing/deep freezing boxes; ultracentrifuge/centrifuge, Canon and Leica digital cameras; Software- morphometric- NIS element advanced 4.0; statistical programmes- MiniTab and Graph Pad Prism.	P17 PCR- laboratory Histological laboratories- Laboratory No. 1 Laboratory No.2
General pathological physiology	Material and equipment for spectrophotometric determinations spectrophotometer (Thermo Electron Corporation, Made in USA), spectrophotometer (VWR International, Made in China), ELISA reader (Apollo LB 913, Germany), FRAS (FRAS BRAVO, H&H Parma Italy), thermostat (Memmert, Made in Germany), freezer (Liebherr - MEDLine, Made in Austria), refrigerator (Gorenje, Made in Slovenia), centrifuge (Eppendorf, Made in Germany), haematological analyses: Hematology analyzer, light microscopes (Carl Zeiss Microscopy, Made in Germany), laminar box.	P8 ground floor

<p>Detection of animal nutritional disorders</p>	<p>Material and equipment for the nutritional evaluation of feeds, compound feeds and rations (dry matter, NL, structural and non-structural carbohydrates, ether extract, minerals): drying oven, Mufl oven, Kjeltex Analyzer (1030 and 2300), Det Gras Analyzer, Dosi Fiber Analyzer, Ankom, automatic polarimeter AP 300, atomic absorption spectrophotometer, - for dietetic evaluation of feeds, rations: pH meters, semi-automatic titrator (Titroline 5000), Daisy II incubator.</p> <p>Material and equipment for the evaluation of the level of carbohydrate fermentation in rumen and intestinal contents (pH, UMK - acetic acid, propionic acid, butyric acid), and in blood serum the level of ketonic substances (acetoacetic acid and <math>\beta</math>-hydroxybutyric acid): Two-column isotachophoretic analyzer EA100 and EA 101.</p> <p>Material and equipment for the analysis and evaluation of indicators of protein (total protein, albumin, urea), energy metabolism (triglycerides, NEMK, glucose) and metabolic load status of the liver (AST, GGT, bilirubin): automatic biochemical analyzer "ELLIPSE", spectrophotometers in the visible and UV region.</p>	<p>P 12, Laboratory 3,5,6 Physics Laboratory</p>
<p>Animal endocrinology</p>	<p>Material and equipment for histological, immunohistochemical analysis, protein, cholesterol, LDH separation, hormone (P4, PRL, IGF-I), protein and ACHE analysis: Sled microtome, water bath, NIKON E200 light microscope with 15 Mpix color camera and NIS Elements Br software, thermostat, heating plate, vortex, orbital mixer, WTC200 RADWAG precision balance, SD50 waterproof pH tester, HYDRASYS gel electrophoresis with EPSON V700 scanner, Multiscan Ex. photometer, Multiscan Ex. Microplate reader - ELISA reader, centrifuge, mini-centrifuge, GuardOne laminar box, refrigerators, freezers (-20°C), deep freezer (-80°C), fume hood, fully automatic digital hatchery</p>	<p>P8/L1, L2</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 provision of educational activities of the study programme and characteristics of their participation: the management of the State Veterinary and Food Administration of the Slovak Republic, as well as private veterinarians and the Slovak Academy of Sciences.
- 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 admission procedure are published on the University's website.  
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; 6 applicants applied, 5 accepted, 5 enrolled  
AR 2019/2020; 3 applicants applied, 2 accepted, 2 enrolled  
AR 2020/2021; 2 applicants applied, 1 accepted, 1 enrolled  
AR 2021/2022; 2 applicants applied, 1 accepted, 1 enrolled.

## **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	1/0773/11	2011	2013	Analysis and evaluation of mineral metabolism in the soil-plant-animal relationship	SGA	Assoc. Prof. Iveta Maskaľová, DVM PhD.
2	1/0812/12	2012	2014	Application of newer methods in clinical-laboratory diagnosis of livestock diseases	SGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
3	1/0812/12	2012	2014	Application of newer methods in clinical-laboratory diagnosis of livestock diseases	SGA	Prof. Peter Reichel, DVM PhD.
4	001UVLF-4/2012	2012	2014	Veterinary cytology	CEGA	Assoc. Prof. Mária Fialkovičová, DVM PhD.
5	1/0812/12	2012	2014	Application of newer methods in clinical-laboratory diagnosis of livestock diseases	SGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM
6	1/0313/12	2012	2014	Bacterial intestinal infection in chickens and influence of cytokine levels by application of probiotics	SGA	Assoc. Prof. Martin Levkut, DVM PhD.
7	RDPA-0302-11	2012	2015	Probiotic microorganisms and regulation of cytokine response in the prevention of immunopathological changes during intestinal bacterial infections in poultry	RDPA	Assoc. Prof. Martin Levkut, DVM PhD.
8	1/0613/13	2013	2015	Study of the effect of rooibos and yucca plants on ovarian function and livestock metabolism	SGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
9	1/0447/14	2014	2016	Blood serum proteins and their use as biomarkers in the diagnosis of diseases in livestock	SGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
10	1/0447/14	2014	2016	Blood serum proteins and their use as biomarkers in the diagnosis of diseases in livestock	SGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM
11	1/0374/14	2014	2016	Effect of essential oils and minerals on physiological processes in the intestine and on antioxidant protection in animals	SGA	Prof. Zita Faixová, DVM PhD.
12	1/0203/15	2015	2017	The use of blood serum proteins in the assessment of health status disorders in dairy cows in the peripartum period	SGA	Prof. Peter Reichel, DVM PhD.
13	1/0154/15	2015	2017	Studying the use of newer diagnostic methods and biomarkers in addressing animal health issues	SGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM
14	1/0663/15	2015	2017	Impact of feed additives on animal production health	SGA	Assoc. Prof. Iveta Maskaľová, DVM PhD.
15	006UVLF-4/2015	2015	2017	Modern form of teaching and innovation of the study course basics of physiology for cynologists	CEGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
16	RDPA-15-0415	2016	2020	Porcine and wild boar gastrointestinal tract virus: identification and analysis of viral agents.	RDPA	Assoc. Prof. Jaroslav Novotný, DVM PhD.
17	RDPA-15-0377	2016	2020	Synergistic effect of plant secondary metabolites and products of probiotic bacteria to inhibit biofilm-forming pathogens.	RDPA	Assoc. Prof. Eva Čonková, DVM PhD.

18	RDPA-0165-15	2016	2019	Study of immune mechanisms in the reduction of <i>Campylobacter jejuni</i> in the poultry intestine following the course of probiotics	RDPA	Assoc. Prof. Martin Levkut, DVM PhD.
19	1/0575/16	2016	2018	Mucosal intestinal immune response in chickens modulated by organic zinc administration and <i>Eimeria</i> spp.	SGA	Assoc. Prof. Martin Levkut, DVM PhD.
20	1/0785/16	2016	2018	Nutritional influence on the regulation of milk quantity and components in dairy cows	SGA	Assoc. Prof. Iveta Maskařová, DVM PhD.
21	1/0476/16	2016	2019	Study of the application of additives high in polyunsaturated fatty acids potentiating the effect of probiotics on the modulation of metabolic and reproductive processes in animals	SGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
22	002UVLF-4/2017	2017	2019	BVDV recovery programmes in cattle: knowledge transfer on the practice-teaching-practice axis	CEGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
23	1/0107/17	2017	2019	Research on etiological, diagnostic, therapeutic and preventive aspects of digital dermatitis, a serious hoof disease of cattle	SGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
24	1/0486/17	2017	2019	The use of serum proteins in the diagnosis of animal health issues	SGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
25	1/0486/17	2017	2019	The use of serum proteins in the diagnosis of animal health issues	SGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM
26	1/0486/17	2017	2019	The use of serum proteins in the diagnosis of animal health issues	SGA	Assoc. Prof. Jaroslav Novotný, DVM PhD.
27	1/0408/17	2017	2019	Effect of humic acids on health, production parameters and meat quality of broiler chickens	SGA	Assoc. Prof. Eva Čonková, DVM PhD.
28	1/0658/17	2017	2020	A comprehensive view of the impact of additives on the animal organism	SGA	Prof. Zita Faixová, DVM PhD.
29	1/0392/17	2017	2020	Impact of contaminants - products of the oil industry on the ovarian function of different species of animals. Use of medicinal plants to reduce the effect of these contaminants	SGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
30	1/0398/18	2018	2021	Analysis of blood serum proteins in the assessment of the inner organs and diagnosis of animal diseases	SGA	Assoc. Prof. Mária Fialkovičová, DVM PhD.
31	1/0398/18	2018	2021	Analysis of blood serum proteins in the assessment of the inner organs and diagnosis of animal diseases	SGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM
32	1/0398/18	2018	2021	Analysis of blood serum proteins in the assessment of the inner organs and diagnosis of animal diseases	SGA	Assoc. Prof. Jaroslav Novotný, DVM PhD.
33	001UVLF-4/2019	2019	2021	A sophisticated clinical skills laboratory for students of veterinary medicine	CEGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM

34	47/2019/UVLF	2019	2021	Research on innovative forms of treatment of bone defects by linking bioactive biomaterials with autologous growth factors	Contract research	Assoc. Prof. Jaroslav Novotný, DVM PhD.
35	1/0355/19	2019	2022	Effect of zinc and probiotic bacteria on intestinal helminths in poultry	SGA	Assoc. Prof. Martin Levkut, DVM PhD.
36	RDPA-14-0397	2019	2023	Using bio-feeds in poultry nutrition for the production of functional foods enriched with essential polyunsaturated fatty acids	RDPA	Assoc. Prof. Iveta Maskařová, DVM PhD.
37	009UVLF-4/2019	2019	2021	Implication of progressive educational methods in teaching physiology	CEGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
38	RDPA-19-0462	2020	2024	Diagnosis, etiology, therapy and prevention of bovine digital dermatitis and its impact on health and welfare	RDPA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
39	1/0314/20	2020	2023	Blood serum proteins as important biomarkers in animal health diagnostics	SGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
40	1/0314/20	2020	2023	Blood serum proteins as important biomarkers in animal health diagnostics	SGA	Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM
41	1/0314/20	2020	2023	Blood serum proteins as important biomarkers in animal health diagnostics	SGA	Assoc. Prof. Jaroslav Novotný, DVM PhD.
42	011UVLF-4/2020	2020	2022	Analysis of the influence of nutrition on production, metabolic and ecological stress levels in dairy cows - application of knowledge for diagnostics and education	CEGA	Assoc. Prof. Iveta Maskařová, DVM PhD.
43	1/0402/20	2020	2023	Impact of additives in monogastric animal nutrition on production health, production, product quality and the environment.	SGA	Assoc. Prof. Iveta Maskařová, DVM PhD.
44	012UVLF-4/2020	2020	2022	Implementation of modern and innovative technologies in the teaching process of physiology	CEGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
45	1/0204/20	2020	2023	Studying the mechanism of action of flaxseed on female gonadal and uterine functions of animals	SGA	Assoc. Prof. Radoslava Vlčková, DVM PhD.
46	1/0071/21	2021	2023	Monitoring the impact of metabolites of selected lichens on angiogenesis, tumor cell proliferation and growth of pathogenic yeasts	SGA	Assoc. Prof. Eva Čonková, DVM PhD.
47	1/0107/21	2021	2023	Muscle myogenic stem cell activity and intestinal tract microflora in poultry	SGA	Assoc. Prof. Martin Levkut, DVM PhD.
48	1/0177/22	2022	2025	Protein profile and separation of serum protein fractions in laboratory diagnostics and in the evaluation of animal health issues	SGA	Prof. Pavol Mudroň, DVM PhD. Dipl. ECBHM
49	1/0177/22	2022	2025	Protein profile and separation of serum protein fractions	SGA	Assoc. Prof. Mária Fialkovičová, DVM PhD.

50	1/0177/22	2022	2025	<p>in laboratory diagnostics and in the evaluation of animal health issues</p> <p>Protein profile and separation of serum protein fractions in laboratory diagnostics and in the evaluation of animal health issues</p>	SGA	<p>Assoc. Prof. Oskar Nagy, DVM PhD. Dipl. ECBHM</p>
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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](#)